Have you checked out the new www.fuelcells.org yet? Take a look and let us know what you think! We are always excited to receive company updates including sales, installations and new images to keep our databases and information up-to-date and comprehensive.

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TRANSPORTATION APPLICATIONS

Austin Receives Fuel Cell Bus.
The Center for Transportation and the Environment (CTE) and its project team delivered a Proterra fuel cell-powered bus to Austin, Texas to join Capital Metro’s fleet in daily transit service operation. The Proterra fuel cell bus, which was previously operated in Columbia, South Carolina in 2010, is unique in that it was purpose built from the ground up as a zero emission bus, unlike most fuel cell buses, which are retrofitted using a standard diesel bus chassis.


First Fuel Cell Bus for Michigan.
The Mass Transportation Authority in Flint, Michigan, held the inaugural ride of its first hydrogen fuel cell bus that it’s leasing from United Technologies Corp. for $1. The transportation utility will test the vehicle on different routes and report the data back to United Technologies. Air Products provided the hydrogen station for the bus.

http://www.mlive.com/business/mid-michigan/index.ssf/2012/05/mta_introduces_hydrogen_fuel_c.html

Hyundai Fuel Cell Vehicles Join Bicycle Race.
Two fuel cell electric vehicles from Hyundai joined the pre-caravan of the Giro d’Italia bicycle race in Denmark earlier this month. Hydrogen was provided by H2 Logic A/S.


Fuel Cell Train Project on Track with Prototype.
Anglo American Platinum Limited and project collaborators Vehicle Projects, Trident South Africa, and Battery Electric, unveiled its fuel cell-powered mine locomotive prototype, using a Ballard Power Systems fuel cell. The partnership will construct five fuel cell locomotives to be tested for underground use at one of Anglo American Platinum’s mines.

http://www.angloplatinum.com/investors/invest_sub/display.asp?Related=true&Id2=496

P&G to Deploy More Than 200 Fuel Cell Forklifts in Three Facilities; Plug Power Announces Other New Customers.
The Procter & Gamble Company is converting its battery-operated forklift fleets at three facilities – Oxnard, California, Pinesville, Louisiana and one in North Carolina – to fuel cells using Plug Power GenDrive fuel cell units. These first three sites will deploy more than 200 fuel cell-powered forklifts. Plug Power also announced several new customers including Mercedes-Benz, for its Tuscaloosa, Alabama facility; Stihl, for a Norfolk, Virginia facility; and IKEA, which intends to convert its entire operation in southern France to GenDrive products in 2013. Plug also signed a five-year contract with Lowe’s to set product pricing and service terms for GenDrive products to be used in its Rome, Georgia distribution center.
Korea to Develop Hydrogen Town.
Korea’s Ministry of Knowledge Economy announced that it is developing, in partnership with industry, a $7.6 million Hydrogen Town Pilot Project that will use domestic waste hydrogen derived from Korean petrochemical manufacturing and power plant operations. This is an important step for Korea, as the country’s current fuel cells rely on imported liquid natural gas. The project will include fuel cells that will power 150 residences and 10 commercial and public buildings.

New Mexico Community Debuts Smart Grid System with Fuel Cell.
The Mesa Del Sol planned community in Albuquerque, New Mexico, unveiled its onsite Smart Grid hybrid system which features an 80-kW fuel cell operating alongside a 50-kW solar PV system, a 240-kW natural gas-powered generator and a 160 kW/hr. battery storage system. Project partners include Japan’s New Energy and Industrial Technology Development Organization (NEDO) which invested $22 million in the system, as well as PNM Prosperity Energy Storage Project, Sandia National Laboratories, the University of New Mexico, and nine major Japanese companies. The Smart Grid system will power the community’s 78,000-sq. ft. Aperture Center, which will draw up to 400 kW of peak power. An automated building management system will coordinate the electricity supply and distribution between the onsite generation sources, energy storage and PNM’s power grid. NEDO will monitor and test the system over a two-year period then will turn the system over to the University of New Mexico’s Center for Emerging Energy Technologies for further RD&D.

Topsoe and SK Sign Two Cooperation Agreements.
Two initial cooperation agreements have been signed by Danish company Topsoe Fuel Cell and SK Holdings of Korea to develop and commercialize micro combined heat and power (CHP) systems for residential applications. The second agreement is made between SK Innovation and Topsoe Full Cell for the development and commercialization of large CHP systems. Topsoe Fuel cell will be providing the fuel cell stacks, while SK Holdings will be developing, manufacturing and deploying the SOFC-based power systems. Both companies will be cooperating in the technical development.

CFCL Fleet Reaches Million Hour Milestone.
As of the beginning of May, 189 Ceramic Fuel Cell Limited (CFCL) units have been operated at CFCL facilities in Melbourne and Germany, as well as at customer sites in nine countries. Cumulative operation from all of these systems has now passed one million hours. Since then, the company has deployed 20 more units – tracked on the website www.bluegen.net.

FCE Extends Service Agreements with Four Customers; German Subsidiary Acquiring MTU Assets; Accelerates POSCO Order.
FuelCell Energy, Inc. (FCE) announced the extension of service agreements with four existing customers to operate and maintain the Direct FuelCell® (DFC®) power plants which are owned by the customers for terms up to 15 years. The total value of the service agreements is approximately $15 million. In other news, FCE’s German subsidiary, FuelCell Energy Solutions GmbH, is acquiring select assets from MTU Friedrichshafen GmbH, a subsidiary of Tognum AG, including fuel cell component inventory and fuel cell manufacturing equipment of the former MTU Onsite Energy GmbH Fuel Cell Systems. Under the agreement, MTU will contribute fuel cell related intellectual property to Fraunhofer IKTS which will become a minority owner in FuelCell Energy Solutions, which, in turn, will develop the market for
stationary fuel cell power plants in Europe. And in Korea, FCE will accelerate the delivery schedule of the previously announced 70 megawatt (MW) order with POSCO Energy to meet growing demand. Under the revised terms, an additional 1.4 MW of fuel cell kits will be delivered monthly for a total of 4.2 MW per month, beginning in July 2012.

DDI Energy to Introduce New SOFC Series.
At the 2012 Global Petroleum Show, being held mid-June, DDI Energy Inc. will be introducing its ARC series of solid oxide fuel cells which range from 3kW to 40kW.

PORTABLE/BACKUP POWER

Multiquip Unveiling Fuel Cell Generator at Entertainment Conference.
Multiquip is unveiling a prototype of its MQ H2G EarthSmart™ hydrogen fuel cell-powered generator (H2G) at Cine Gear Expo 2012, a film, video and digital media expo for the entertainment industry.

MICRO FUEL CELLS

Lilliputian and Brookstone to Launch Fuel Cell Charger.
Lilliputian Systems Inc. (LSI) has signed a strategic partnership agreement with Brookstone, Inc. to launch LSI's portable charger for consumer electronics. Under the terms of the agreement, Brookstone will be the first retail launch partner for LSI's portable charging system and will use its various distribution channels such as catalog, Brookstone.com, and retail stores including airport and mall locations. Lilliputian will be responsible for the product design, development, and manufacturing but the product will be branded and sold under the Brookstone® brand.

MILITARY APPLICATIONS

Army OTC Testing Fuel Cells.
The U.S. Army Operational Test Command (OTC) has launched a new experiment to implement several fuel cells in power supplies for communications and relay towers during the Network Integration Evaluation (NIE), a series of operational tests and evaluations designed to integrate and mature the Army’s tactical network. Fuel cells are also being tested as lightweight power pack for soldiers using the real-time tracking device vests and casualty assessment equipment that are also being tested during NIE.

NexTech Receives ONR Contract for UUVs.
NexTech Materials, Ltd. has received a contract from the Office of Naval Research (ONR) for a Future Naval Capability project aimed at design, development and demonstration of a compact energy system for unmanned underwater vehicles (UUVs). In this project, NexTech and its team will complete a comprehensive design of an energy-dense power system for a 21-inch diameter UUV. This system will be based on solid oxide fuel cell power generation using liquid hydrocarbon fuel (JP-10) and liquid oxygen reactants.

FUELS/REFORMERS/STORAGE

Air Products Dedicates Flint Hydrogen Station.
Air Products dedicated its new hydrogen fueling station in Flint, Michigan, to fuel the Flint Mass Transportation Authority’s (MTA) hydrogen fuel cell powered bus now in service. The station incorporates a PEM electrolyzer from Proton OnSite to generate the hydrogen.

First Swiss Hydrogen Station Opens.
PostBus Switzerland Ltd. opened Switzerland’s first hydrogen filling station in Brugg to fuel the five fuel cell buses that have been in service since December 2011. The gaseous hydrogen is produced directly at the filling station via an electrolyzer.

Hydrogenics to Build 2 MW Energy Storage Facility in Germany.
Hydrogenics Corporation has received an order from E.ON for a ‘Power-to-Gas’ project in Germany. The 2 MW energy storage facility, to be located in Falkenhagen in northeast Germany, will use surplus renewable energy sources to produce hydrogen for storage in the country's existing natural gas pipeline network. The E.ON project is a turnkey contract, which means Hydrogenics will provide a range of services to build the Power-to-Gas project, including supply, installation, connection and commissioning of the hydrogen production facility including gas compression, master controls, as well as a 5-year service and maintenance agreement.

ReliOn Joins with Hy9 to Develop Fuel Processor.
ReliOn and Hy9 are collaborating on the development of an integrated fuel processor for fuel cell products, including the sub-systems, controls and the systems integration of a new liquid fuel-based power system. The fuel processor, or reformer, converts a liquid fuel, in this case methanol and water, into hydrogen for use with ReliOn’s fuel cell product.

e1 Releases New Hydrogen Generator.
Element 1 Corp. (e1) has released its new H110 high output hydrogen generator, part of its H-Series hydrogen generators fueled by a blend of methanol and water.

BNL Scientists Develop Cheaper Catalyst.
Scientists at the U.S. Department of Energy’s (DOE) Brookhaven National Laboratory have developed a new electro catalyst that uses catalytic nickel-molybdenum-nitride.

McPhy Expands to Germany.
McPhy Energy, a French company developing solid state hydrogen storage technology, has recently signed contracts in France, the UK, Italy and Japan and appointment a new CEO for McPhy Energy Deutschland GmbH to expand into Germany.

MATERIALS/COMPONENTS/TESTING

Tanaka Ships Record Amount of Catalysts.
Tanaka Precious Metals announced record shipment volume of fuel cell catalysts in FY2011 (April 2011 - March 2012). This was achieved in part due to a 67.2% increase in the ENE-FARM residential fuel cell sales.

DOE plans to invest up to $120 million over five years to launch a new Energy Innovation Hub, establishing a multidisciplinary and sustained effort to identify problems and develop solutions across the lifecycle of critical materials. The Hub, funded by up to $20 million in Fiscal Year 2012, will work to advance U.S. leadership in energy manufacturing - such as electric vehicles, wind turbines, efficient lighting, and others.  
http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=737

REPORTS/MARKET STUDIES

Ohio Report Touts Potential Jobs.  
A new report released by NorTech and the Ohio Fuel Cell Coalition predicts that Ohio could create more than 1,650 jobs by 2019, if the right steps are taken to strengthen Ohio's fuel cell industry.  

REQUESTS FOR PROPOSALS

Advanced Manufacturing Jobs and Innovation Accelerator Challenge.  
A $26 million multi-agency Advanced Manufacturing Jobs and Innovation Accelerator Challenge has been launched to foster innovation-fueled job creation through public-private partnerships. Approximately 12 projects are expected to be chosen through a competitive inter-agency grant process. Applicants are encouraged to submit proposals that will help grow a region's industry clusters by strengthening connections to regional economic development opportunities and advanced manufacturing assets; enhance a region's capacity to create high-quality sustainable jobs; develop a skilled and diverse advanced manufacturing workforce; increase exports; encourage the development of small businesses; and accelerate technological innovation.  

SBIR for EERE.  
DOE announced up to $9 million available this year to fund small business innovation in energy efficiency and renewable energy. The hydrogen and fuel cell technologies focus areas include transportation and hydrogen storage. DOE will fund selected small businesses with one-year awards of up to $150,000 with an opportunity for successful candidates to compete for more than $1 million in follow-on-funding.  
https://eere-exchange.energy.gov/#Foaldb3ab7cc1-f5b1-45f2-9f4d-0d5a091f8ef5

Materials Handling/Backup Power RFI.  
DOE's Fuel Cell Technologies Program has issued an RFI seeking feedback from stakeholders regarding the proposed performance, durability, and cost targets for fuel cells designed for backup power and material handling applications. DOE is asking for industry information from developers, manufacturers, end users, and other stakeholders about the target values, as well as the current status of fuel cells for these early market applications.  
https://eere-exchange.energy.gov/Default.aspx#d343124e-7faa-4efa-9069-1fd176e9b623

MISCELLANEOUS

DOE AMR Awards.  
DOE's Hydrogen and Fuel Cells Program presented its annual awards at the 2012 DOE Hydrogen and Fuel Cells Program and Vehicle Technologies Program Annual Merit Review and Peer Evaluation Meeting for outstanding contributions to the overall efforts of the Program and "Sub-Program Awards" to recognize exceptional achievements in specific areas. See all the winners at http://www.hydrogen.energy.gov/annual_review12_awards.html.

Horizon Joins with Fab Lab.
Horizon Fuel Cell Technologies has entered into a worldwide distribution and co-development agreement with the Fab Lab Store in California for a new “Maker Development Kit™” named H2MDK™. H2MDK™ is an all-inclusive DIY solution created for product inventors that using fuel cell system components and hydrogen storage building blocks from Horizon. [link]

**ITM to Open Scottish Office.**
ITM Power will be opening an office in Scotland at the facilities of Aberdeen City Council. [link]

**CONFERENCES**


**WHEC 2012.**

**Smart Cities Workshop.**
FCH Applications for Smart Cities: Go Down to Zero Emissions will be held Wednesday June 13, 2012, in Brussels, Belgium. To register, please visit [http://fuelcelleurope.eurokeys.eu/](http://fuelcelleurope.eurokeys.eu/).

**Washington Fuel Cell Summit.**

**Sustainable Energy Coalition Expo.**

**Hybrid Small Fuel Cells 2012.**

**CARISMA Conference.**
The 3rd CARISMA International Conference on Medium and High Temperature Proton Exchange Membrane Fuel Cells will be held September 3-5, 2012, in Axelborg, Copenhagen, Denmark. For details, please go to [http://carisma2012.com/](http://carisma2012.com/).

**Batteries and Fuel Cells.**
The Batteries and Fuel Cells Seminar will take place September 4-6, 2012, at the Holiday Inn in San Diego, California. For information, go to [http://www.sdle.co.il/Default.asp?sType=0&PagId=49641](http://www.sdle.co.il/Default.asp?sType=0&PagId=49641).

**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. For conference information, please go to [http://www.f-cell.de/englisch/home/](http://www.f-cell.de/englisch/home/).

**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/](http://totalenergyusa.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.