
Sorry this is a few days late – I was at the 9th International Hydrogen and Fuel Cell Expo in Tokyo, Japan, last week. It was a great show! It’s never too early to sign up for next year – email me for information about the conference and/or the U.S. Pavilion if you are interested.

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President Obama Nominates New DOE Secretary, EPA Chief.
President Barack Obama officially nominated Ernest Moniz as Secretary of Energy and Gina McCarthy as administrator of the Environmental Protection Agency. Moniz is a physicist at the Massachusetts Institute of Technology, where he directs the MIT Energy Initiative. He served as undersecretary of energy under President Clinton and is a member of the President’s Council of Advisors on Science and Technology. Moniz is a big natural gas (as a bridge fuel) supporter which could be good for fuel cells, although he is being met with some criticism for his support of fracking to generate it. McCarthy has been EPA’s assistant administrator for air and radiation since 2009 and is well-known as a clean air advocate and for helping design programs to expand energy efficiency and promote renewable energy. Stay tuned to see if both are easily confirmed.
http://www.whitehouse.gov/blog/2013/03/04/president-obama-announces-three-nominees-help-tackle-our-most-important-challenges

Two representatives from the fuel cell industry, Frank Wolak from FuelCell Energy and Robert Rose of the Breakthrough Technologies Institute (Fuel Cells 2000’s parent organization) have been appointed to the U.S. Department of Commerce’s newly re-chartered Renewable Energy and Energy Efficiency (RE&EE) Advisory Committee. A total of 37 private-sector representatives were selected from different energy sectors to advise on ways to improve the export competitiveness of the RE&EE sector.

TRANSPORTATION APPLICATIONS

Hyundai Launches Assembly Line Production of its Fuel Cell Vehicle.
Hyundai became the world’s first automaker to begin assembly-line production of a fuel cell vehicle (FCV), its ix35 FCV. The first vehicle showcased was one of 17 destined for fleet customers in the cities of Copenhagen, Denmark and Skåne, Sweden. Hyundai plans to build 1,000 ix35 vehicles by 2015 for lease to public and private fleets, primarily in Europe. After 2015, with lowered vehicle production costs and further developed hydrogen infrastructure, Hyundai will begin manufacturing hydrogen fuel cell vehicles for consumer retail sales.

Ballard Awarded Funding for Fuel Cell Bus System.
Ballard Power Systems has been awarded approximately CAN$2.0 million (US$1.9 million) in funding from Sustainable Development Technology Canada (SDTC) for a one-year extension to an earlier CAN$4.8 million (US$4.7 million) award to further commercialize its FCvelocity™-HD6 power module for use in the transit bus market.


SMILE! Joint Venture Now Ready to Manufacture in Japan.
SMILE FC System Corporation (SMILE FC), a joint venture between Intelligent Energy and Suzuki Motor Corporation, has successfully established a ready-to-scale production plant for its fuel cell systems in Yokohama, Japan. The manufacturing center will be scaled up to supply Intelligent Energy fuel cell stacks for integration with Suzuki vehicles.


EnergyOr Demonstrates UAV in India.
EnergyOr Technologies Inc. demonstrated what are believed to be the first fuel cell powered unmanned aerial vehicle (UAV) flights in India. This technology demonstration using EnergyOr’s EPOD EO-310-XLE fuel cell system for UAVs, was performed in conjunction with Radiant Coral Digital Technologies (RCDT), an Indian company and subsidiary of Radiant Corporation.

http://www.energyor.com/energyor/news.cfm

STATIONARY APPLICATIONS

Small Fuel Cell Fish Swallows Whale.
Hillsboro, Oregon-based ClearEdge Power has closed on its acquisition of UTC Power. UTC’s operations will remain in South Windsor, Connecticut.


Target Installs Bloom Systems at Two Stores.
Target has installed Bloom Energy fuel cell systems at two stores in California - one in San Francisco and the other in Pasadena. The pilot is part of a larger effort to incorporate onsite energy-generating technology at Target locations.


FuelCell Energy, Inc. announced a contract to demonstrate a tri-generation stationary fuel cell power plant near Vancouver, British Columbia, Canada, utilizing landfill gas as the fuel source. The hot water created by the excess heat will be supplied to Village Farms, a leading hydroponic greenhouse operator in North America, and the renewable hydrogen will be exported for vehicle fueling or industrial applications.


Ballard to Install Biomass-fueled Fuel Cell for Indian Tribe.
Ballard Power has sold a 175 kW ClearGen™ fuel cell system to the Blue Lake Rancheria Tribe of Humboldt County, California to integrate with a biomass gasifier and syngas purification unit. The system will be the first of its kind, converting locally-grown timber by-product feedstock into hydrogen-rich syngas, using pyrolysis gasification technology. This syngas will then be purified, resulting in a high quality hydrogen stream, which will be used to power the ClearGen™ fuel cell system. The plant will provide base load power for the Tribe’s commercial enterprises and by-product heat will be used to warm the swimming pool in an adjacent hotel.


CFCL Selects Solar Spirit for Belgium Distribution, Temporarily Suspends Agreement With Sanevo.
Ceramic Fuel Cells Limited (CFCL) has signed a distribution agreement with Solar Spirit to distribute CFCL’s BlueGEN-CHP fuel cell systems in Belgium. CFCL also was forced to temporarily suspend its distribution agreement with Sanevo but says it will have no impact on its strategy or operations.

Acta and Ecosiland Sign Letter of Intent for Isle of Wight.
Acta S.p.A has signed a Letter of Intent with Ecosiland Partnership CIC, Community Interest Company will run a domestic renewable energy storage trial project for one house on the Isle of Wight. Should this prove successful, Acta and Ecosiland intend to work together to promote, finance and supply domestic renewable energy storage solutions for installation in potentially half of the 65,000 homes on the island, as well as in homes on the partner islands of the Ecosiland Accord, including Jersey, Fiji and the Seychelles. The parties expect that the trial will commence by the end of April 2013 and will run for approximately three months. Acta will work with Dantherm Power to incorporate an Acta EL500 electrolyzer with Dantherm’s 5 kW fuel cell system to generate hydrogen directly from the solar panels on the home.

AlumiFuel and Genport Join Forces.
AlumiFuel Power Corporation has signed a Term Sheet with Genport, srl of Italy, to merge its wholly-owned Philadelphia-based operating subsidiary, AlumiFuel Power Technologies, Inc., (APTI) and Genport into a new U.S. corporate entity, NovoFuel, Inc. The merger would include a new lab facility in the Philadelphia area to develop a 5 kW backup power system for the telecommunications market.

Intelligent Energy Joins with Cable & Wireless.
Intelligent Energy is collaborating with Cable & Wireless Communications (under its Sure brand) to test personal energy devices powered by Intelligent Energy’s fuel cell technology to power various mobile devices. The companies will commence a user trial of an Intelligent Energy portable power device during the summer of 2013.

NAWCWD Testing Renewable Fuel Cell System.
The Naval Air Warfare Center Weapons Division (NAWCWD) Renewable Energy Office in China Lake, California, recently received a trailer-mounted regenerative fuel cell system consisting of a fuel cell and an array of solar panels. It is trailer-mounted so it can be towed just about anywhere, and can generate about 5,000 watts of electricity. During the day, the command center would be powered by solar energy and excess energy would be used to generate hydrogen. At night, the stored hydrogen that was produced during the day would be sent through the fuel cell to create electricity. The team will test and evaluate the system in a lab at China Lake before sending it out with troops for field testing.

UK H₂Mobility Launches, Releases Phase 1 Results and Vehicle Study.
Three United Kingdom (UK) government departments and 11 companies are collaborating on a new initiative, UK H₂Mobility, to evaluate the benefits of fuel cell electric vehicles (FCEVs) for the UK as well
as create a roadmap for the introduction of FCEVs and hydrogen infrastructure. The group released the results of its first phase of the project that included a roadmap to show how 1.6 million FCEVs could be on the road in the UK by 2030.


**DOE Awards Funding for Hydrogen Cost Analysis.**
The U.S. Department of Energy (DOE) has selected Strategic Analysis to lead a $1 million project to analyze and evaluate potential cost-competitive pathways for producing and transporting hydrogen fuel.


**ITM Makes First Sale in Japan.**
ITM Power has sold the first reference plant based on the HPac platform to a company in Japan.


**Western Hydrogen Receives Funding for Innovative Hydrogen Production Technology.**
Western Hydrogen Limited was awarded CAN$1.45 million (US$1.42 million) from Sustainable Development Technology Canada (SDTC). This funding, which is Western Hydrogen's second grant from SDTC, will help the company continue piloting an innovative hydrogen production technology that is expected to have significant economic and environmental advantages over current hydrogen manufacturing. By commercializing the "Molten Salt Gasification" (MSG) process, Western Hydrogen believes it can create significant benefits for hydrogen users - especially those in the hydrogen-intensive oil sands business.


**MATERIALS/COMPONENTS/TESTING**

**DOE SBIR/STTR Selects Three Fuel Cell/Hydrogen Projects.**
DOE’s Office of Energy Efficiency and Renewable Energy has awarded three Phase 1 Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) grants to fuel cell and hydrogen projects. They include Composite Technology Development, Inc. of Colorado for “Optimizing the Cost and Performance of Composite Cylinders for H2 Storage using a Graded Construction;” Nextgen Aeronautics, Inc. of California for “4b Low-cost Integrated Nanoreinforcement for Composite Tanks (LINCT);” and Treadstone Technologies of New Jersey for “Novel Structured Metal Bipolar Plates for Low Cost Manufacturing.”


**REPORTS/MARKET STUDIES**

**REQUESTS FOR PROPOSALS**

**Second Round of Advanced Energy Manufacturing Tax Credits Announced.**
The Advanced Energy Manufacturing Tax Credits (commonly referred to as 48C), that were established by the American Recovery and Reinvestment Act, have entered the second round with $150 million now available.


**Combined Heat and Power Technical Assistance Partnerships.**
DOE announced a funding opportunity announcement (FOA) of $1.5 million for up to 8 projects aimed at establishing Combined Heat and Power (CHP) Technical Assistance Partnerships (TAPs). The DOE plans to make an additional $9.5 million available over the next four years subject to congressional appropriations.

**RFI on Automotive Targets.**
DOE has issued a Request for Information (RFI) seeking feedback from stakeholders regarding proposed cost and durability targets for fuel cells designed for automotive applications. The proposed cost targets are $40/kW for automotive fuel cell system cost, and the proposed durability target is 5,000 hours corresponding to approximately 150,000 miles.

[https://eere-exchange.energy.gov/#FoaIde0bdc203-6f56-4bf1-91a6-ed958fb38228](https://eere-exchange.energy.gov/#FoaIde0bdc203-6f56-4bf1-91a6-ed958fb38228)

**MISCELLANEOUS**

**Anglo American Platinum Investing in Ballard Power Systems.**
Anglo American Platinum is investing $4 million in Ballard Power Systems through its PGM Development Fund, to support continued commercial advancement of Ballard’s fuel cell products in target market applications.


**Oorja and HySA/Catalysis enter MOU.**
Oorja Protonics has entered into a Memorandum of Understanding (MOU) with HySA/Catalysis, one of the three centers of competence for Hydrogen South Africa. The plan involves Oorja granting rights for marketing, selling and distributing Oorja’s direct methanol fuel cell products in the African market for various applications such as telecommunications towers, materials handling and refrigerated trucks. During the second phase of the collaboration, Oorja will license its technology to HySA/Catalysis for manufacturing of its OorjaPac in South Africa with the goal of incorporating South African PGM-based catalysts.


**CONFERENCES**

For a complete list of conferences, please go to [http://www.fuelcells.org/newsroom/conferences/](http://www.fuelcells.org/newsroom/conferences/).

**HANNOVER MESSE 2013.**
The HANNOVER MESSE 2013, Group Exhibit Hydrogen + Fuel Cells will be held April 8-12, 2013, in Hanover, Germany. For more information, please go to [http://www.h2fc-fair.com](http://www.h2fc-fair.com).

**Ohio Fuel Cell Symposium.**

**International Congress on Materials and Renewable Energy.**
The International Congress on Materials and Renewable Energy, which will be held 1-3 July 2013 in Athens, Greece. For conference information, go to [http://www.energy-conference.co.uk/](http://www.energy-conference.co.uk/).

**WHTC2013.**

**f-cell 2013.**
The f-cell, Battery+Storage and e-mobil BW Technologietag 2013 will be held September 30 - October 2, 2013, in Stuttgart, Germany. For conference information, please go to [http://www.f-cell.de](http://www.f-cell.de).

**SOFC-XIII.**
The Thirteenth International Symposium on Solid Oxide Fuel Cells (SOFC-XIII) will be held at the Okinawa Convention Center in Okinawa, Japan on October 6-11, 2013. General information on the Symposium is available at [http://www.sofc-xiii.com](http://www.sofc-xiii.com).
Fuel Cell Seminar.

All-Energy Canada.
The All-Energy Canada Exhibition & Conference will take place April 9-10, 2014 at Toronto's Exhibition Place, in Toronto, Canada. For details, please go to http://www.all-energy.ca/.

20WHEC2014.
The 20th World Hydrogen Energy Conference 2014 will be held in Gwangju, Korea, from June 15-20, 2014. For information, go to http://whec2014.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.*