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TRANSPORTATION APPLICATIONS

Hydrogencics Receives Additional Bus Orders.
Hydrogencics Corporation has received an additional order from Proterra LLC to provide fuel cell power modules for a zero-emission bus to be deployed in Fort Lewis, Washington, as part of a project led by the Center for Transportation and the Environment (CTE), sponsored under the Defense Logistics Agency’s (DLA) Hydrogen and Fuel Cell Research and Development Program. This is the third Proterra EcoRide transit bus that will utilize Hydrogencics’ systems. Separately, Hydrogencics will soon begin building two HyPM HD 16 units for an EVAmérica, LLC Ecobus transit bus project to be demonstrated in Birmingham, Alabama. This initiative, supported by a grant from the U.S. Department of Transportation’s Federal Transit Administration to the University of Alabama at Birmingham (UAB), is led by a UAB research team and also coordinated by CTE. The EVAmérica bus will be operated by the Birmingham-Jefferson County Transit Authority (BJCTA) and service the UAB campus as well as metropolitan Birmingham.

Toyota FCHV-adv Completes Government Field Evaluation
The U.S. Department of Energy (DOE), the Savannah River National Laboratory, and the National Renewable Energy Laboratory have completed their evaluation of a Toyota Highlander Fuel Cell Hybrid Vehicle – Advanced (FCHV-adv) as part of a government-funded field evaluation. The FCHV-adv achieved an estimated range of 431 miles on a single full tank of compressed hydrogen gas, and an average fuel economy of 68.3 miles/kg (approximate mpg equivalent) during a 331.5 mile extended round trip between Torrance, California and San Diego.

Nissan Deploys Fuel Cell Forklifts at Tennessee Assembly Plant.
Nissan North America (NNA) has become the first vehicle manufacturer to commercially deploy methanol fuel cells to power its material handling equipment (tugs) at its Smyrna, Tennessee assembly plant. Oorja Protonics provided its OorjaPac™ methanol fuel cells for 60 tugs used to transport thousands of vehicle parts throughout the 5.4 million-square-foot facility. By switching to the fuel cells, Nissan is able to get rid of more than 70 electric battery chargers that were consuming almost 540,000 kilowatt-hours of electricity annually. This will reduce Nissan’s electric bill and eliminate more than 300 tons of CO2 emissions that were being released into the atmosphere.
http://www.nissannews.com/newsrelease.do?id=855

Morphic Energy Receives Order from Polish Navy.
Morphic Energy has received an order from the Polish Navy for a new type of fuel cell that will be used in underwater crafts. The development work has been carried out parallel with the ongoing industrialization process for Polaris 140, the fuel cell system for recreational vehicles such as boats, travel trailers and motor homes. Morphic will deliver an unconventional, AIP-fuel cell system where electricity is generated in environments with no contact with the atmosphere. The fuel cells are driven by pure hydrogen gas and pure oxygen as opposed to a conventional fuel cell where oxygen is extracted from the air. The advantage of this is that the system can be made more compact and it also increases efficiency. This technology has primarily been used by the military or for space applications.
http://www.morphic.se/en/Press/Press-releases/Pressrelease/?rptid=441534
Horizon AEROPAK Powers BlueBird UAS.
Horizon Fuel Cell Technologies provided its AEROPAK fuel cell system to Israeli company BlueBird Aero Systems for its Boomerang unmanned aerial system (UAS). BlueBird’s Boomerang is a field-operational 9kg electric powered UAS which is now able to fly for over nine hours using the Horizon fuel cell system. [http://www.horizonfuelcell.com/files/BlueBirdHorizonAugust62009.pdf](http://www.horizonfuelcell.com/files/BlueBirdHorizonAugust62009.pdf)

STATIONARY APPLICATIONS

PORTABLE/BACKUP POWER

MICRO FUEL CELLS


FUELS/REFORMERS/STORAGE

Hydrogen Fueling Station Opens at Yeager Airport.
Yeager Airport, in Charleston, West Virginia, just opened a hydrogen production & fueling facility, with assistance from DOE and the National Energy Technology Laboratory (NETL). The airport will receive three hydrogen-powered vehicles from DOE in exchange for donating the land. There will be other vehicles that will eventually fuel up at the Yeager station. The airport will purchase a hydrogen-powered pickup truck that was previously used in an Arizona demonstration project and the Air National Guard’s 130th Airlift Wing has received a hydrogen fuel cell-powered forklift that will be used for loading aircraft and other applications. This station in West Virginia is set to be part of a mini hydrogen highway in the I-79 corridor with another station set to be located at West Virginia University (WVU) at Morgantown and a third located in Pittsburgh.

DOE Clean Cities Grant to Fund CT Fueling Station.

Wegman’s Awarded Grant for Hydrogen Dispensers for Forklifts.
Supermarket chain Wegmans has been awarded a $1 million grant from the Pennsylvania Energy Development Authority to help implement hydrogen fuel-cell technology for some equipment at its distribution center in the Highridge Business Park in Cass Township. The state grant will offset the purchase of an on-site hydrogen infrastructure that includes an outdoor hydrogen storage tank and indoor fueling dispensers. The fuel will be used for the center’s forklifts and pallet jacks that are currently powered by lead-acid batteries. The hydrogen installation is anticipated to be completed in November. The company also plans to purchase 50 new pallet trucks and nine forklifts. Wegmans officials said the transition from lead-acid to hydrogen will increase productivity, lower operating cost and reduce greenhouse gas emissions. [http://www.mcall.com/business/all-5wegmans.6989828aug15.0,1112918.story?track=rss](http://www.mcall.com/business/all-5wegmans.6989828aug15.0,1112918.story?track=rss)

Hydrogenics Receives Electrolyzer Orders from Algeria and Saudi Arabia.
Hydrogenics Corporation has received almost $5 million in orders for electrolyzers from Groupe Cevital of Algeria and the Obeikan Investment Group of Saudi Arabia. The HySTAT units are expected to be delivered in late 2009 and early 2010.  

Airgas and Nuvera Team Up.  
Airgas, Inc. and Nuvera Fuel Cells, Inc., have entered a five-year marketing, sales, and service agreement to provide PowerTap™ hydrogen generators and stations to the North American material handling market. Under the agreement, Nuvera will manufacture the PowerTap systems and Airgas will provide distribution, installation, monitoring and maintenance of the equipment, as well as backup hydrogen, at customer sites. The PowerTap generator uses steam reformation technology to produce hydrogen from natural gas. In other Nuvera news, the company has also entered into a five-year manufacturing agreement with Universal Precision Products, Inc. Universal will integrate the compression and storage components of Nuvera’s PowerTap.  

MATERIALS/COMPONENTS TESTING

THEIL to Produce Fuel Cell Substrates.  
LED ceramic substrate maker Tong Hsing Electronic Industries (THEIL) is scheduled to volume produce fuel cell substrates in December. The new product line is expected to begin contributing revenues in 2010, and revenue share of the green energy segment is likely to increase to over 50% next year, said company president Henry Liu. THEIL expects its capacity of fuel cell substrates will increase more than 10 times in 2010.  

REPORTS/MARKET STUDIES

Fuel Cells 2000 is currently working on the Tenth Edition of its Fuel Cell Directory. It’s free to list your company in the Directory so contact Jennifer Gangi at jennifer@fuelcells.org to find out if your company is listed and if someone from your company has already sent in an updating listing form. If not, we’ll send you one.  

REQUESTS FOR PROPOSALS

Check out the Fuel Cell RFPs blog for more opportunities.  

Army Seeking Fuel Cell Battery Charger.  
The U.S. Army has issued a Broad Agency Announcement (BAA), with funding from the American Recovery and Reinvestment Act, to solicit project proposals for development of a 300-Watt Squad Level Fuel Cell System to serve as a portable battery charger capable of charging up to six batteries simultaneously. Proposals are due September 11, 2009.  
https://www.fbo.gov/index?s=opportunity&mode=form&id=c55ceb47302ec5d565ada5b7aede06a5&tab=c ore&cview=1

NorthWestern Energy Issues RFI.  
NorthWestern Energy has issued a request for information for a renewable energy project that generates 25 megawatts to 75 megawatts of electricity. The RFI is open to all qualified renewable energy resources, including wind, biomass, landfill gas and hydrogen. The company would prefer to purchase the projects, but it will consider other options such as an equity interest in a larger project or long-term power purchase agreements. It will only consider projects that deliver both renewable energy and the associated renewable energy credits.  
http://www.missoulian.com/news/state-and-regional/article_5d648302-8b70-11de-b957-001cc4c002e0.html
**MISCELLANEOUS**

**Pragma Industries Receives Venture Capital Funding.**
Pragma Industries receives more than €400,000 in new funding as company moves to commercialize PEM fuel cells. Pragma Industries has raised nearly €412,000 (£354,000) in venture capital funding to finance the final development phase of its commercial hydrogen fuel cell technology.

**CONFERENCES**


**Eleventh Grove Fuel Cell Symposium.**

Principles and Applications of Fuel Cell Technologies Seminar will be held October 7-8, 2009, in Hartford Connecticut. For more information, please go to [http://www.SeminarsForEngineers.com](http://www.SeminarsForEngineers.com).

**Remote 2009.**

**Piero Lunghi Fuel Cell Conference.**
The Third European Fuel Cell Technology and Applications Conference (Piero Lunghi Conference) will be held in Rome, Italy, December 15-18, 2009. For more information, go to [http://www.asmeconferences.org/EFC09/](http://www.asmeconferences.org/EFC09/).

**FC EXPO 2010.**

**HANNOVER MESSE 2010.**


*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.*