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## **FUEL CELL CONNECTION -- August 2002 Issue**

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News on U.S. Government Fuel Cell Programs

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### 1. Army National Automotive Center Shows Fuel Cell Advances

The U.S. Army Tank and Automotive Command's National Automotive Center (NAC) demonstrated fuel cell projects during a recent auto industry Management Briefing Seminar in Michigan. NAC showed a Peterbilt Truck fitted with a fuel cell, as well as information on Delphi Automotive System's solid oxide fuel cell auxiliary power unit and Millennium Cell's Hydrogen on Demand™ technology.

<http://www.techmarketing.brtrc.com/webdev/nac/site/mbs2002.htm>

### 2. EPA Scheduling Fuel Cell Testing & Verification Projects

The Environmental Protection Agency's Environmental Technology Verification Program is scheduling two projects to verify fuel cell systems. Both verifications will be conducted by NY State Energy Research and Development Authority. In one of the projects, a UTC Fuel Cells PAFC will be tested in Brooklyn, New York. In the other project, a Plug Power PEMFC will be tested in Buffalo, New York. <http://www.epa.gov/etv/verifications/event03.html>

3. *Landfill Methane Outreach Program Posts Current Fuel Cell Projects and Projects Sought*  
EPA's Landfill Methane Outreach Program (LMOP) has posted an Excel spreadsheet detailing the latest information on more than 2200 LMOP projects, including a fuel cell project in Braintree, Massachusetts. LMOP has also posted site profiles of landfills seeking projects. For example, the Erie County Landfill in Milan, Ohio, has identified a potential project using LFG for alternative fuel vehicles or a fuel cell in the county. There are several landfills "Interested in developing renewable capacity for a potential green power program."

<http://www.epa.gov/lmop/projects/projects.htm>

<http://www.epa.gov/lmop/seek/seek.htm>

### 4. DOE Posts Universal Interconnection Technology Workshop Presentations

DOE's Distributed Power Program held a Universal Interconnection Technology Workshop in Chicago in late-July 2002. Presentations from the workshop have been posted online. Presentation topics include "Emerging DER Networks" and "Associated Barriers to Distributed Generation." <http://www.eren.doe.gov/distributedpower/news/120.html>

### 5. NARUC Adopts DOE/NREL-Supported DG Interconnection Agreement

The Board of Directors of the National Association of Regulatory Utility Commissioners (NARUC) adopted and recommended to its members the use of the model distributed generation interconnection agreement and procedures developed with support from DOE's National Renewable Energy Laboratory. A copy of the model procedures and agreement has been made available online. <http://www.eren.doe.gov/distributedpower/news/121.html>

## RFP/Solicitation News

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6. LADWP to Fund Innovative Energy Technology Demonstrations

The Los Angeles Department of Water and Power (LADWP) is offering a total of \$750,000 in funding to developers or manufacturers of innovative, energy efficient technology for demonstration projects through its Innovative Technology Program. Preference will be given to

technologies that result in peak period demand reduction, but all energy concepts that positively impact building end-use efficiency are eligible for consideration. Deadline for proposals is August 30, 2002. <http://www.ladwp.com/ITP/>

7. FEMP Offers Technical Assistance for DG/CHP and Renewable Energy Projects

DOE's Federal Energy Management Program (FEMP) is interested in supporting agency projects in need of technical assistance in five areas, including "Distributed Generation/Combined Heat & Power (DG/CHP)" and "Renewable Energy." The total value for 2003 technical assistance is up to \$500,000 to be distributed among selected projects. Last fiscal year, funding per project ranged from \$15,000 to \$30,000 depending on the scope of work. Deadline for applications is August 30, 2002. <http://www.eren.doe.gov/femp/techassist/callforprojects.html>

8. LANL Offers License Rights for Corrosion Test Cell for PEMFC Bipolar Plate Materials

Los Alamos National Laboratory is offering license rights to the pending U.S. Patent for the purpose of manufacturing and selling its corrosion test cell for screening candidate bipolar plate materials for use in PEM fuel cells. Responses to the solicitation are due no later than September 6, 2002. <http://www.eps.gov/spg/DOE/LANL/LA/LAUR-02-5139/SynopsisP.html>

9. PA DEP Accepting Grant Applications for Alternative Fuel Vehicles

\$13 million in Alternative Fuels Incentive Grants is available from Pennsylvania's Department of Environmental Protection (DEP). To date, DEP has awarded nearly \$19 million to fund 291 projects in 35 counties. Alternative fuels include hydrogen, methanol, ethanol, and LPG. Applications must be received by 4 p.m. October 1, 2002.

<http://www.dep.state.pa.us/update/default.asp?ID=6614>

10. DOD University Research Initiative Solicitation Includes Fuel Cell Topic

DOD's Multidisciplinary Research Program of the University Research Initiative has issued a solicitation for projects in twelve specific subject areas, including "Fundamental Theoretical/Experimental Molecular Science Underpinning Fuel Cell Systems." A total of \$100 million over five years is available for projects through this solicitation. White papers must be received by 4:00 p.m. on September 12, 2002. Full proposals are due by 4:00 p.m. November 20, 2002. <http://www.eps.gov/spg/USN/ONR/ONR/02-025/listing.html>

11. Navy BAA Includes Fuel Cell Interest

A Broad Agency Announcement (BAA) by the Navy's Naval Sea Systems Command includes and interest in fuel cell, semi-fuel cell and battery technologies for high-speed underwater vehicles and long endurance missions in unmanned underwater vehicles (UUV). BAA topics include analytical models to evaluate the transient behavior of semi-fuel cell systems applicable to UUV applications, and novel liquid phase fuels for consideration as a source of hydrogen for low temperature direct oxidation liquid phase-fuel cells. The announcement will remain open until August 11, 2003.

<http://www.eps.gov/spg/USN/NAVSEA/N66604/Reference-Number-2002-5461-2/listing.html>

12. DOE SBIR to Include Fuel Cell Research as Technical Topic

DOE will include Fuel Cell Research as one of the 47 technical topics of interest in its FY2003 SBIR/STTR Program Solicitation, which it plans to issue in October 2002.

http://www.science.doe.gov/sbir/Solicitations/Titles/FY2003_titles.htm

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## Contract / Funding Awards

### 13. DOE Selects FuelCell Energy for Clean Coal-Powered Fuel Cell Demonstration

DOE has approved plans for FuelCell Energy to install a two-megawatt fuel cell power plant at the Wabash River Energy coal gasification-combined cycle power plant in West Terre Haute, Indiana. A one-year program will demonstrate the fuel cell using coal gas.

[http://www.fossil.energy.gov/techline/tl\\_cct\\_fuelcell\\_print.html](http://www.fossil.energy.gov/techline/tl_cct_fuelcell_print.html)

### 14. AQMD Approves Three-Year Fuel Cell APU Project for Diesel Trucks

The South Coast Air Quality Management District is funding a three-year project to develop fuel cells as auxiliary power units for diesel trucks. The Institute of Transportation Studies at the University of California, Davis, will develop the fuel cells with a total of \$1.2 million in funding from the university, AQMD, CARB, DOE, Carrier Transicold and the American Trucking Association.

[http://www.aqmd.gov/news1/Governing\\_Board/2002/bs8\\_02\\_02.htm](http://www.aqmd.gov/news1/Governing_Board/2002/bs8_02_02.htm)

## Legislation / Regulations

### 15. EPA Proposes Pollution Cuts for Motorcycles and Boats

EPA has proposed a 50 percent cut in emissions produced by motorcycles and an 80 percent decrease for gasoline-fueled recreational boats. The standards would take effect in 2006 for new motorcycles and 2008 for boats. EPA will hold public hearings September 17 in Ypsilanti, Michigan, on the proposed motorcycle standard, and September 23 in Ann Arbor, Michigan, on the proposed boat standard. Comments on both proposals will be accepted until November 8, 2002.

<http://www.epa.gov/otaq/roadbike.htm>

<http://www.epa.gov/otaq/marinesi.htm>

### 16. Meeting Scheduled, Comments Sought on Small Generator Interconnection ANOPR

Federal Energy Regulatory Commission staff will hold an open meeting September 9-10 in Washington, DC, on its Advanced Notice of Proposed Rulemaking (ANOPR) for small generator interconnection agreements and procedures. Staff will try to develop a consensus on the standard agreements and procedures. The ANOPR designates two categories of small generators: up to 2 MW, and 2 MW to 20 MW. Public comments on the ANOPR will be accepted until November 4, 2002.

[http://www.ferc.gov/Electric/gen\\_inter.htm](http://www.ferc.gov/Electric/gen_inter.htm)

## Industry Headlines

### 17. Nuvera Launches Commercial Fuel Cell Generators

Nuvera Fuel Cells has launched a hydrogen fuel cell business based on its Avanti™ 5-kW distributed generation product line. Nuvera will provide OEMs with "ruggedized" hydrogen power modules ranging from 1 to 6-kW.

[http://www.nuvera.com/press/nv\\_lincoln.pdf](http://www.nuvera.com/press/nv_lincoln.pdf)

### 18. H Power Launches Commercial Products

H Power Corporation is now taking orders for its two commercial, direct hydrogen fueled product lines. The E(PAC)-500™ is a self-contained 500-Watt fuel cell power source. The Modular Power Solutions product line, is based on the H(Core)-500™, a hydrogen-fueled 500-Watt, 48 V DC power source that can also be configured for indoor or outdoor use. Shipments are expected to be in September. <http://www.hpower.com/cgi-bin/pr.cgi?idPressRelease=74>

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*19. GM to Start Selling Fuel Cell Backup Power Systems by 2004*

General Motors plans to begin selling stationary fuel cells for backup power by 2004. The company has officially opened a 64,000-square foot fuel cell development facility in Honeoye Falls, New York. [http://biz.yahoo.com/rb/020729/autos\\_gm\\_fuelcells\\_1.html](http://biz.yahoo.com/rb/020729/autos_gm_fuelcells_1.html)

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Administration
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Press releases and story ideas may be forwarded to Bernadette Geyer, editor, for consideration at [bernie@usfcc.com](mailto:bernie@usfcc.com).

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[\(http://www.usfcc.com/\)](http://www.usfcc.com/)

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[\(http://www.nfcrc.uci.edu/\)](http://www.nfcrc.uci.edu/)

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<http://www.netl.doe.gov>