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## **FUEL CELL CONNECTION -- December 2001 Issue**

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#### **News on U.S. Government Fuel Cell Programs**

1. *Lynntech Delivers DMFCs to Army Lab*

Lynntech has delivered four 15-watt prototype direct methanol fuel cell systems to the U.S. Army Research Laboratory for use as individual soldier power systems. The systems were delivered at the completion of a SBIR Phase II contract.

[http://biz.yahoo.com/bw/011218/182405\\_1.html](http://biz.yahoo.com/bw/011218/182405_1.html)

2. *U.S. Air Force Tests H Power Fuel Cell Systems*

Concurrent Technologies Corporation tested H Power fuel cell systems on behalf of the U.S. Air Force's Air Expeditionary Force Battlelab, Common Core Power Production (C2P2) Initiative. The 4-kilowatt sized systems were tested powering an office suite, a simulated aircraft load, industrial shop and aircraft support equipment, and the drivetrain of a tow vehicle.

[http://biz.yahoo.com/bw/011205/52041\\_1.html](http://biz.yahoo.com/bw/011205/52041_1.html)

3. *Hydrogen Sensor Validated for Military Applications*

National Technical Systems has validated DCH Technology's H2SCAN™ (hydrogen) Sensor System for use in military systems worldwide. The system passed five key elements of the MIL-STD-810C specification, requiring demanding tests for vibration, mechanical shock, temperature shock, temperature cycle, and humidity soak.

[http://biz.yahoo.com/prnews/011221/laf020\\_1.html](http://biz.yahoo.com/prnews/011221/laf020_1.html)

4. *Sandia Researcher Receives Young Investigator Award for Hydrogen Work*

Sandia National Laboratory's Karl Gross has received a Young Investigator award from the Department of Energy's Office of Power Technologies for his research on developing lightweight hydride materials for hydrogen storage. The award recognizes exceptional talents of researchers who are working to advance DOE programs.

<http://www.ca.sandia.gov/news/011213ynginvestigator.html>

5. *DOE to Hold Combined Review of Fuel Cell, Hydrogen Programs*

The U.S. DOE's Hydrogen Program, Fuel Cells for Transportation Program, and Fuels for Fuel Cells Program will be holding a joint Program Review on May 6-10, 2002, in Denver, Colorado. More details will be released in coming months.

[http://www.ott.doe.gov/calendar\\_afdc.shtml](http://www.ott.doe.gov/calendar_afdc.shtml)

6. *DOE's Office of Distributed Energy Resources Redesigns Web Site*

DOE's Office of Distributed Energy Resources (DER) has redesigned its web site to showcase more detailed information on distributed power technologies. Information on specific DER projects, resources, suppliers, project financing, and regulatory and policy issues will be added during the next year.

<http://www.eren.doe.gov/new/whats-new.html>

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**RFP/Solicitation News**  
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7. *CaFCP Seeks Proposals on Fueling Facilities*

The California Fuel Cell Partnership has issued an "invitation" to companies to submit a proposal to conduct a new study on the design of safe and cost-effective facilities for the housing and servicing of hydrogen fuel cell vehicles. In this project, "the Contractor will study the design requirements to support hydrogen-fueled vehicles and the incremental cost associated with these

facilities.” A bidder’s conference call is scheduled January 9, 2002, at 1:00 p.m. PST. The call-in number will be provided to those who send an expression of interest to [cafcg-hq@cafcg.org](mailto:cafcg-hq@cafcg.org) by January 7. The deadline for proposals is February 13, 2002. A copy of the Scope of Work can be found at <http://www.cafcg.org/documents/H2FacilitySOW.rev8.PDF>.

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**8. Update on California Request for Bids on Stationary Fuel Cells**

The California Power Authority has re-issued its Stationary Fuel Cell Request for Bids with significant amendments, and has posted the Fuel Cell Q&A from the bidder’s conference. It has also extended the deadline for Bids to January 10, 2002.

<http://www.capowerauthority.ca.gov/Requestforbids/main.asp>

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**9. DOD Seeks Fuel Cell Technology Proposals Through 2002.1 SBIR Solicitation**

The Department of Defense has begun accepting proposals for its 2002.1 SBIR Solicitation. A complete listing of Component Topic Sections for each agency (Navy, Air Force, DARPA, BMD, etc.) is available online. Topics include: Logistic Fuel Sulfur Removal for Fuel Cell Use in Air Expeditionary Force (AEF) Operations; Compact Hydrogen Storage Using Metal Hydride; Rechargeable Fuel Cells; and Fuel Cells for Arms Control Applications. Phase I awards are typically \$60K to \$100K. The deadline for proposals is January 16, 2002.

[http://www.acq.osd.mil/sadbu/sbir/solicitations/sbir021/dod\\_sbir021.htm](http://www.acq.osd.mil/sadbu/sbir/solicitations/sbir021/dod_sbir021.htm)

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**10. DOE Issues 2002 BAA Solicitation for Clean Cities Program**

DOE is now accepting proposals for Broad Area Announcement grants, focusing on areas that help promote the Clean Cities program and the use of alternative fuel and alternative fuel vehicles (AFVs). Specific areas of interest include the co-sponsoring of Clean Cities events, AFV training to local Clean Cities stakeholders, and market analysis of niche fleets. Proposals should be sent to regional DOE offices by March 15, 2002.

[http://www.cities.doe.gov/baa\\_sol02.shtml#top](http://www.cities.doe.gov/baa_sol02.shtml#top)

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**11. DOE State Energy Program 2002 BAA Accepting Proposals for Grants**

As much as \$4.5 million in State Energy program grant money has been set aside for state energy offices to promote special projects that support alternative fuels and alternative fuel vehicles through the development of infrastructure, niche markets, and strategic alliances. Grant proposals should be sent to regional DOE offices by March 15, 2002.

[http://www.cities.doe.gov/sep\\_sol02.shtml](http://www.cities.doe.gov/sep_sol02.shtml)

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**12. Energy Innovations Small Grant Program Accepting Proposals**

California Energy Commission has issued its call for proposals for the Energy Innovations Small Grant Program, which provides up to \$75,000 to small businesses, non-profits, individuals and academic institutions to conduct research on innovative energy concepts. Program areas include Renewable Generation, Environmentally Preferred Advanced Generation, Building End-use Efficiency and Strategic Energy Research. Optional pre-proposal abstracts are being accepted through February 8, 2002. Deadline for grant applications is February 21, 2002.

<http://www.energy.ca.gov/contracts/smallgrant/index.html>

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**13. SECA Issues Pre-Solicitation Notice**

The Solid State Energy Conversion Alliance (SECA) Program has announced its intent to issue a solicitation (DE-PS26-02NT40865) for its Core Technology Program. The solicitation will focus on specific sub-topics under the Core Technology areas, which include Fuel Processing, Power Electronics, and Materials. Funding will be limited to approximately \$150,000 per proposal. The

proposal will be announced on the DOE National Energy Technology web site when it becomes available to the public. <http://www.netl.doe.gov/business>

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*14. Pre-Solicitation Conference Scheduled for Army Combat Systems for Future Soldiers*

The U.S. Army Natick Soldier Center is inviting companies to learn about new business opportunities at the Objective Force Warrior Pre-solicitation Conference scheduled for January 17-19 in Waltham, Massachusetts. The Objective Force Warrior program is charged with developing a highly survivable, lightweight, low power, highly mobile, sustainable and cost-efficient warfighter combat system "for Soldiers of 2010 and beyond." Companies will be given a chance during the conference to present a 3-5 minute summary of their capabilities and interests. Names of planned attendees must be submitted by January 4, 2002.

<http://www.natick.army.mil/pao/2001/01-63.htm>

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**Contract Awards**  
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*15. NASA Awards Two Fuel Cell Projects for Reusable Launch Vehicle Applications*

ElectroChem and Teledyne Energy Systems have been awarded contracts to develop PEM fuel cell power plants for NASA's Reusable Launch Vehicle Program. NASA will perform independent testing and verification of the systems and then select one contractor to continue with development of an engineering model.

<http://www.aero-space.nasa.gov/curevent/news/fuel.htm>

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**Legislation / Regulations**  
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*16. Senate Democrats Release Proposed Energy Bill*

The Daschle-Bingaman Energy Policy Act of 2002 was unveiled by Senate Democrats on December 5. Fuel cells are referred to throughout the text of the bill, which can be downloaded at <http://energy.senate.gov>. Highlights include: \$50 million in FY2003 (increasing to \$80 million in FY2006) for a Green School Bus Pilot program and a Fuel Cell Bus Development & Demonstration program; \$700 million in FY2003 (increasing to \$983 million in FY2006) for Enhanced Energy Efficiency R&D; and \$500 million in FY2003 (increasing to \$733 million in FY2006) for Enhanced Renewable Energy R&D including biofuels for fuel cell vehicles and technologies for hydrogen production, storage and use (FCs).

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*17. Documents Posted Regarding California Strategy to Reduce Petroleum Dependence*

California Energy Commission has posted the Program Plan for its Strategy to Reduce Petroleum Dependence in California. The Program Plan, which was prepared by Arthur D. Little for the California Air Resources Board and California Energy Commission, is available both as a PDF and Microsoft Word file.

[http://www.energy.ca.gov/fuels/petroleum\\_dependence/documents/](http://www.energy.ca.gov/fuels/petroleum_dependence/documents/)

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**Industry Headlines**  
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*18. DaimlerChrysler Unveils Fuel Cell Powered Town & Country Natrium*

DaimlerChrysler has unveiled a fuel cell powered Town & Country minivan, the "Natrium", which uses Millennium Cell's Hydrogen on Demand system. The unique feature of the Natrium is that the hydrogen for the fuel cell is generated from sodium borohydride, which is derived from borax.  
[http://biz.yahoo.com/bw/011212/122588\\_1.html](http://biz.yahoo.com/bw/011212/122588_1.html)

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*19. Verizon to Demonstrate Fuel Cells at Telecommunications Site*

Verizon will demonstrate a natural gas-fueled Nuvera Fuel Cells fuel cell system at a telecommunications site in Massachusetts. The system will provide primary power to the facility.  
<http://www.energyinfosource.com/dg/news.cfm?id=14336>

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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@fuelcells.org](mailto:bernie@fuelcells.org).

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*U.S. Fuel Cell Council* -- The U.S. Fuel Cell Council is the business association for anyone seeking to foster the commercialization of fuel cells in the United States. Our membership includes producers of all types of fuel cells, as well as major suppliers and customers. The Council is member driven, with six active Working Groups focusing on: Codes & Standards; Transportation; Power Generation; Portable Power; Stack Materials and Components; and Education & Outreach. The Council provides its members with an opportunity to develop policies and directions for the fuel cell industry, and also gives every member the chance to benefit from one-on-one interaction with colleagues and opinion leaders important to the industry. Members also have access to exclusive data, studies, reports and analyses prepared by the Council, and access to the "Members Only" section of its web site.

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

*National Fuel Cell Research Center* -- The mission of the NFCRC is to promote and support the genesis of a fuel cell industry by providing technological leadership within a vigorous program of research, development and demonstration. By serving as a locus for academic talent of the highest caliber and a non-profit site for the objective evaluation and improvement of industrial products, NFCRC's goal is to become a focal point for advancing fuel cell technology. By supporting industrial research and development, creating partnerships with State and Federal agencies, including the U.S. Department of Energy (DOE) and California Energy Commission (CEC), and overcoming key technical obstacles to fuel cell utilization, the NFCRC can become an invaluable technological incubator for the fuel cell industry.

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

*National Energy Technology Laboratory* -- The National Energy Technology Laboratory is federally owned and operated. Its mission is "We Solve National Energy and Environmental Problems." NETL performs, procures, and partners in technical research, development, and

demonstration to advance technology into the commercial marketplace, thereby benefiting the environment, contributing to U.S. employment, and advancing the position of U.S. industries in the global market.

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