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FUEL CELL CONNECTION -- February 2001 Issue

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News on U.S. Government Fuel Cell Programs

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1. DOE Adds Honeywell Hybrid Fuel Cell to Distributed Power Program
The U.S. Department of Energy's National Energy Technology Laboratory has selected Honeywell International to begin the first stages of development for a new type of planar solid oxide fuel cell system that will be combined with a microturbine to increase system efficiency. For the initial development effort, Honeywell will test three 5-kilowatt planar SOFCs connected to a turbocharger.
http://www.fetc.doe.gov/publications/press/2001/tl_honeywell1.html

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2. NREL Expands Alliance to Help Clean Energy Businesses
National Renewable Energy Laboratory announced the addition of six incubators to the National Alliance of Clean Energy Business Incubators, which will focus on accelerating the growth and development of U.S. technology-based start-up companies in the clean energy sector. Participants in the Alliance include Cinergy Ventures, Enron Investments, Connecticut Clean Energy Fund, and Florida Power and Light Company.
http://www.nrel.gov/hot-stuff/press/0901_incubator.html

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3. Presentations from DOE Distributed Power Program Review Posted
DOE's Office of Power Technologies has posted presentations from its Distributed Power Program Annual Review, which was held in January 2001.
http://www.eren.doe.gov/distributedpower/pages/DPPWrkshp0101.html

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RFP/Solicitation News
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4. NICE3 Program Accepting Proposals on Buildings, Transportation and Power
The DOE Office of Industrial Technologies' NICE3 (National Industrial Competitiveness Through Energy, Environment and Economics) Program funds up to $525,000 for demonstrations of innovative technologies that reduce energy consumption, waste production and operating costs. The solicitation covers the Office of Energy Efficiency and Renewable Energy's buildings, transportation, and power sectors, in addition to OIT focus industries. Optional pre-proposals are due March 1, 2001. The competitive solicitation opens early April, and closes late June 2001.
http://www.oit.doe.gov/nice3/grants/01preprop.shtml

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5. Inventions & Innovations Solicitation to Fund Energy-Saving Ideas and Inventions
The DOE Office of Industrial Technologies' Inventions and Innovation Program will fund up to $40,000 for conceptual ideas related to energy savings in buildings, transportation and power, and up to $200,000 for more well-developed inventions moving towards prototype development or commercialization. Optional pre-proposals are due March 1, 2001. The competitive solicitation opens early April, and closes late June 2001.
http://www.oit.doe.gov/inventions

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6. Army Market Investigation Seeks Small, Commercial Fuel Cells
The Fuel Cell Technology Team of the U.S. Army Communications-Electronics Command Acquisition Center (CECOM) is interested in identifying commercially available fuel cells and/or fuel cell systems that are small, lightweight, and quiet. Two power ranges are of primary interest: 10-30 watts average, and 150-1000 watts average. The closing date for the request is March 7, 2001.

http://frwebgate2.access.gpo.gov/cgi-bin/waisgate.cgi?WAISdocID=6642913403+0+0+0&WAISaction=retrieve

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7. Funding Available for Federal Distributed Energy Resources Projects
DOE's Federal Energy Management Program is interested in supporting cost-effective Federal projects using Distributed Energy Resources, by providing technical assistance and DER hardware, including fuel cells, for projects at Federal facilities. Up to $400,000 is available for this solicitation in FY2001. Applications are due by March 16, 2001.
http://www.eren.doe.gov/femp/newsevents/callforDER.html

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8. Hydrogen Technical Analysis Solicitation Released
A solicitation for a Hydrogen Technical Analysis is the sixth supplemental announcement for the DOE Office of Energy Efficiency and Renewable Energy's Broad Based Solicitation for applications involving Research, Development and Demonstration. Analysis topics include hydrogen from biomass gasification and infrastructure development enabled by federal fuel cell installations. Up to $200,000 is available for this announcement for FY2001. The deadline for proposals is March 21, 2001.
http://www.golden.doe.gov/Business%20Opportunities/SolFiles/go90000Sup6.pdf

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9. Power Plant Improvement Initiative Accepting Proposals
Proposals for improving the efficiency and stability of the electric grid are now being accepted by DOE for its Power Plant Improvement Initiative. The initial program will apply to existing and new coal-based central power plants, but the program could later include a wider span of technologies such as fuel cells that can operate on natural gas as well as coal. Proposals are due by April 19, 2001.
http://www.netl.doe.gov/business/solicit/2001pdf/41104/41104.pdf

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10. PA Offers Over $7 Million in Alternative Fuels Grants
Pennsylvania's Department of Environmental Protection is offering more than $7 million to school districts, local governments, corporations, nonprofits and residents for projects promoting the use of alternative fuels, including hydrogen, natural gas and methanol. Grants will cover up to 30 percent of the applicant's eligible costs. The deadline for applications is April 23, 2001.
http://www.dep.state.pa.us/update/default.asp?ID=1082

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11. EPA Offers Funding for Cleaner Vehicles/Green Fleet Demonstrations
Up to $300,000 per project is available from the EPA for demonstrations of new or experimental methods, technologies, or approaches to reduce transportation-related emissions and vehicle miles traveled, including demonstrations of cleaner vehicles/green fleets. Up to ten pilot projects will be chosen. An informal Intent to Apply is due by March 14, 2001, and the deadline for Final Proposals is April 24, 2001.
http://www.epa.gov/oms/transp/cac9.pdf

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Contracts / Awards
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12. Fuel Cell Project Receives Funds from 2000 I&I Solicitation

FuelCell Technologies, Inc., of New Milford, Connecticut, will receive $199,671 over three years for a project to develop a prototype of an industrial fuel cell micro-generator. The company received the funding through the DOE Inventions & Innovation Program solicitation for FY2000.
http://www.oit.doe.gov/inventions/grant/winners/2000/00list.shtml

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Regulations
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13. California Bill Package to Spur Distributed Generation
California's Governor Davis announced a legislative package to provide incentives for more renewable energy and distributed generation in the state, including tax credits, $50 million in rebates and $50 million in commercial loan guarantees for distributed generation projects. In addition, the Governor proposes eliminating the standby charges paid by distributed generation end-use customers to the utilities.
http://www.governor.ca.gov/state/govsite/gov_htmldisplay.jsp?BV_SessionID=@@@@02396580
85.0983204495@@@@&BV_EngineID=calkejjflgebemfcfkmchcgi.0&sCatTitle=Press+Release&
sFilePath=/govsite/press_release/2001_02/20010214_pr054_distributed_generation.html&sTitle=
GOVERNOR+DAVIS+ANNOUNCES+BILL+PACKAGE+TO+INCREASE+RENEWABLE+ENERG
Y,+DISTRIBUTED+GENERATION+AND+CO-GENERATION&iOID=13343

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Industry Headlines
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14. BMW and Delphi Unveil Vehicle With Fuel Cell APU
BMW and Delphi Automotive unveiled their first development vehicle featuring a solid oxide fuel cell auxiliary power unit. The APU provides sufficient energy for existing mechanically-driven sub-systems, such as the air conditioning and water pumps.
http://www.delphiauto.com/index.cfm?location=2541

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15. Mazda Introduces Fuel Cell Vehicle
Mazda has introduced its own fuel cell vehicle, the Premacy FC-EV, which features a fuel cell running on hydrogen from methanol reformed on the vehicle. The electric motor has a maximum power of 65kW.
http://www.e.mazda.co.jp/Publicity/Public/200102/0213e.html

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16. DuPont Forms Fuel Cell Business
DuPont has formed a Fuel Cell business unit, intending to become the leading supplier of materials and components to the PEM fuel cell market. DuPont believes the fuel cell market will reach $10 billion by the year 2010.
http://www.dupont.com/corp/whats-new/releases/01/010208.html

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17. Honda's 3rd Generation Fuel Cell Vehicle to be Demonstrated in California
Honda has introduced FCX-V3, its third generation fuel cell vehicle, which features a Honda-designed fuel cell stack running on gaseous hydrogen stored on-board the vehicle. The vehicle also features an ultra capacitor, and has a startup time of about 10 seconds. The FCX-V3 will join the fleet of vehicles participating in the California Fuel Cell Partnership's demonstration program.

http://www.honda2001.com/news/press.html?y=2001&r=509

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18. DCH to Introduce Fuel Cell Water Taxi in March
DCH Technology has announced that it will introduce a fuel cell powered water taxi in conjunction with the National Hydrogen Association's Annual Meeting and Exposition in Washington, DC, in March 2001. DCH also will formally launch its Center For Hydrogen Safety, which will provide consulting and training services worldwide.
http://www.dcht.com/press_releases/press_release.asp?release=199&caller=news

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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.

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About *Fuel Cell Connection*

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The Sponsors

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 five active Working Groups focusing on: Codes & Standards; Transportation; Power Generation; Portable Power; 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/)

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/)

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)