



You can subscribe to the Fuel Cell and Hydrogen Energy Connection at  
<http://visitor.r20.constantcontact.com/d.jsp?llr=tdevbseab&p=oi&m=1104412315763>

---

## **FUEL CELL AND HYDROGEN ENERGY CONNECTION – April 2011 Issue**

---

### **CONTENTS**

#### **Federal Program News**

1. HTAC 2010 Annual Report Details Significant Fuel Cell, Hydrogen Activity
2. May 5 Webcast on Planning Renewable Energy Projects at Federal Facilities

#### **RFP / Solicitation News**

3. Navy Issues BAA for Long Endurance Undersea Vehicle Propulsion
4. Fuel Cell Technologies Program Issues RFI on Demonstration, Validation
5. Deployed Energy Storage BAA Released by DARPA
6. PIER EISG Electricity Program Accepting Applications for Grants
7. PIER EISG Natural Gas Program Accepting Applications for Grants
8. CCEF Launches New “Alpha Program” for Clean Energy Technologies
9. NASA Tech Briefs Publisher Announces Create the Future Design Contest 2011
10. Army Soldier Systems BAA Includes Wearable Power Interest
11. Biofuels for Fuel Cells Included in AFOSR BAA

#### **Administration**

About the *Fuel Cell and Hydrogen Energy Connection*

---

### **Federal Program News**

#### **1. HTAC 2010 Annual Report Details Significant Fuel Cell, Hydrogen Activity**

The Hydrogen and Fuel Cell Technical Advisory Committee (HTAC) has issued its 2010 Annual Report for Hydrogen and Fuel Cell Commercialization and Technical Development Activity, which details significant activity for the technologies in several applications. The report highlights increases in use of fuel cells for

material handling equipment and stationary power generation, as well as the expansion of the hydrogen infrastructure for transportation applications.

[http://www1.eere.energy.gov/hydrogenandfuelcells/news\\_detail.html?news\\_id=16850](http://www1.eere.energy.gov/hydrogenandfuelcells/news_detail.html?news_id=16850)

## **2. May 5 Webcast on Planning Renewable Energy Projects at Federal Facilities**

On May 5, the U.S. Department of Energy Federal Energy Management Program (FEMP) will present a webcast on the subject of planning renewable energy projects at federal facilities. The 90-minute webcast is free of charge, but you must register in advance to find out how to access the webcast. Topics to be covered include federal mandates, site evaluations for renewable energy systems, and cost calculators. The webcast is part of the "FEMP First Thursday Seminars" series.

[http://apps1.eere.energy.gov/news/progress\\_alerts.cfm/pa\\_id=516](http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=516)

~~~~~

## **RFP / Solicitation News**

### **3. Navy Issues BAA for Long Endurance Undersea Vehicle Propulsion**

The Department of the Navy Office of Naval Research (ONR) issued a Broad Agency Announcement (BAA) for Long Endurance Undersea Vehicle Propulsion, seeking to extend current stealth propulsion from its current capability of 10-40 hours to several days or weeks. Approximately \$18 million is expected to be available over the 5-year span of the project. ONR anticipates up to three awards under the BAA, with initial Phase I awards totaling approximately \$3.5 million. Full proposals are due May 16, 2011.

[https://www.fbo.gov/index?s=opportunity&mode=form&id=50ffa7481aeb7e2a8755cfb8bca61b4f&tab=core&\\_cview=1](https://www.fbo.gov/index?s=opportunity&mode=form&id=50ffa7481aeb7e2a8755cfb8bca61b4f&tab=core&_cview=1)

### **4. Fuel Cell Technologies Program Issues RFI on Demonstration, Validation**

The U.S. Department of Energy Fuel Cell Technologies Program issued a Request for Information (RFI) from stakeholders for Supporting Ongoing Hydrogen and Fuel Cell Technologies Demonstration and Validation Activities. The deadline for responses is June 1, 2011.

<http://www.grants.gov/search/search.do;jsessionid=Fhh1NJ5CBTDpkTMhptKS8gRyzCjrJhQsrJp7dtWSyyp0bvdtD221478093133?oppld=84333&mode=VIEW>

### **5. Deployed Energy Storage BAA Released by DARPA**

The Defense Advanced Research Projects Agency (DARPA) released a Broad Agency Announcement (BAA) for Deployed Energy Storage, to develop a "deployable system to enable maximum use of renewable energy sources in order to minimize the fuel required at [forward operating bases] for power generation." The amount of funding available under the BAA "will depend on the quality of the proposals received and the availability of funds." Proposals are due June 6, 2011.

[https://www.fbo.gov/index?s=opportunity&mode=form&id=7b60ae8624009f5b9c485bdbb93ce849&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=7b60ae8624009f5b9c485bdbb93ce849&tab=core&_cview=0)

### **6. PIER EISG Electricity Program Accepting Applications for Grants**

The California Energy Commission Public Interest Energy Research (PIER) Program is accepting proposals for grants under its Energy Innovations Small Grants (EISG) Electricity Program. Areas of research eligible for funding include Renewable Generation and Environmentally Preferred Advanced Generation.

Approximately \$2.6 million is available each year for EISG Electricity Program grants. A maximum \$95,000 per project will be awarded to hardware projects requiring physical testing and \$50,000 for modeling projects. Proposals are due June 14, 2011.

[http://www.energy.ca.gov/contracts/smallgrant/11-01\\_electricity/index.html](http://www.energy.ca.gov/contracts/smallgrant/11-01_electricity/index.html)

## **7. PIER EISG Natural Gas Program Accepting Applications for Grants**

The California Energy Commission Public Interest Energy Research (PIER) Program is accepting proposals for grants under its Energy Innovations Small Grants (EISG) Natural Gas Program. Areas of research eligible for funding include Renewable Energy Technologies, Advanced Generation Concepts, and Natural Gas Energy Efficiency. Approximately \$21 million is available for awards in this program. A maximum \$95,000 per project will be awarded to hardware projects requiring physical testing and \$50,000 for modeling projects. Proposals are due June 14, 2011.

[http://www.energy.ca.gov/contracts/smallgrant/11-01G\\_naturalgas/index.html](http://www.energy.ca.gov/contracts/smallgrant/11-01G_naturalgas/index.html)

## **8. CCEF Launches New “Alpha Program” for Clean Energy Technologies**

The Connecticut Clean Energy Fund (CCEF) launched a new “Alpha Program” that provides financing to advance the development and commercialization of emerging clean energy technologies. Eligible technology areas include fuel cells and hydrogen production. The program offers funding in two phases: Phase I grants of up to \$50,000 for Engineering Design and Development, and Phase II grants of up to \$150,000 for Prototype Construction and Testing. A maximum of six projects may be funded from this round of the program. Applications are due June 15, 2011.

<http://www.ctcleanenergy.com/YourBusinessorInstitution/NewTechnologyPrograms/AlphaProgram/tabid/573/Default.aspx>

## **9. NASA Tech Briefs Publisher Announces Create the Future Design Contest 2011**

The publisher of the National Aeronautics and Space Administration (NASA) Tech Briefs magazine announced that the Create the Future Design Contest 2011 is now open for entries. Design teams may register their ideas for new products in one of several categories, including Sustainable Technologies. The grand prize winner will receive a cash prize of \$20,000. Teams have until June 30, 2011, to register.

<http://contest.techbriefs.com/>

## **10. Army Soldier Systems BAA Includes Wearable Power Interest**

The U.S. Army Natick Soldier Systems Center released a Broad Agency Announcement (BAA) for Basic and Applied Research, which includes as a topic of interest “Body-Worn Systems, Hand Held Devices, and Smart-Lightweight Electronic Components/Modules for Soldier Protection, Knowledge Management and Cognitive Improvement.” Proposers must first submit a concept paper to the technical point of contact listed in the appropriate area of interest. The BAA will remain open continuously through March 31, 2013.

<https://www3.natick.army.mil/nsrdecbaa.html>

## **11. Biofuels for Fuel Cells Included in AFOSR BAA**

In its new Broad Agency Announcement (BAA), the Air Force Office of Scientific Research (AFOSR) lists Bioenergy as a specific topic of interest, including research to improve the use of microbes to produce biofuels for use in fuel cells and air breathing engines. Also of interest is enhancement of “the power density of enzymatic and microbial biofuel cells.” Approximately \$200 million is available for awards through this BAA, with individual awards averaging \$150,000 per year. White papers are optional and will be accepted any time prior to submission of a full proposal. The BAA will remain open until replaced by a successor BAA.

[https://www.fbo.gov/index?s=opportunity&mode=form&id=119f160b78231deee6e553030e9b5b3c&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=119f160b78231deee6e553030e9b5b3c&tab=core&_cview=0)

~~~~~

## **About the *Fuel Cell and Hydrogen Energy Connection***

## Administration

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

Visit the Fuel Cell RFPs Web site (<http://www.fuelcellrfps.com>) for a listing of open solicitations and funding opportunities.

You can subscribe to the Fuel Cell and Hydrogen Energy Connection at <http://visitor.r20.constantcontact.com/d.jsp?llr=tdevbseab&p=oi&m=1104412315763>

## The Sponsors

*Fuel Cell and Hydrogen Energy Association* -- The Fuel Cell and Hydrogen Energy Association (FCHEA) is the world's premier advocacy organization dedicated to the commercialization of fuel cells and hydrogen energy technologies. Its membership represents the full spectrum of the supply chain from universities, government laboratories and agencies, fuel cell materials, component and system manufacturers, hydrogen producers and fuel distributors, utilities and other end users. (<http://www.fchea.org/>)

*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>)