

January 5, 2006

## BPA Fuel Cell Program Update

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### Program Update:

BPA's Fuel Cell Program will include a quick Climate Change Fuel Cell Rebate solicitation (see below for more information), limited education and outreach, support of the Combined Heat and Power Consortium, non-wires solutions, EnergyWeb activities and the Northwest Hydrogen Alliance (NWAHA). We will also continue testing two Relion units in battery-charging applications, as well as a Clear Edge Power unit (formerly Quantum Leap Technology).

### Climate Change Fuel Cell Solicitation:

BPA is managing the DoD Climate Change Fuel Cell Rebate Program. In the Defense Appropriations Conference Report Fiscal Year 2003, Congress agreed to provide funding to the Department of Defense (DoD) for the continuation of the Climate Change Fuel Cell Program. The objective of the cost-shared "FY 2003 Climate Change Fuel Cell Program" is to simultaneously stimulate commercialization of stationary fuel cell power plants and to reduce greenhouse gas emissions through the efficient use of fossil fuels. One FY 2003 project is no longer viable, so a new solicitation will re-obligate those funds. The solicitation for proposals will be posted Friday, January 6, 2006, on the BPA web site: [http://www.bpa.gov/Energy/N/projects/fuel\\_cell/dod\\_climate\\_change/](http://www.bpa.gov/Energy/N/projects/fuel_cell/dod_climate_change/). The amount of any individual DoD Climate Change Fuel Cell Program grant will not exceed the lower of \$1,000/kW of installed fuel cell capacity or one-third of the total project costs. The deadline for proposals is March 31, 2006.

### Fuel Cell Education:

BPA has completed most of the work under US DOE and DoD fuel cell education grants. Two hundred Washington, 60 Oregon and 42 California science teachers received training, a fuel cell curriculum and car kit targeted at 9<sup>th</sup> – 12<sup>th</sup> grade science classes. The small car uses a photovoltaic module and a reversible PEM fuel cell to generate hydrogen, and the kit includes eight hands-on experiments. For more information on this grant and how to order your own kit, see the BPA web-site:

[http://www.bpa.gov/Energy/N/projects/fuel\\_cell/education.shtml](http://www.bpa.gov/Energy/N/projects/fuel_cell/education.shtml)

While you're there, take the Fuel Cell Quiz!

### NWAHA:

BPA provides technical support for the Northwest Hydrogen Alliance (NWAHA). In addition, BPA will co-sponsor **The Hydrogen Economy 2006**, on July 31 and Aug 1, 2006. This two-day event will precede a larger HydroVision Conference

that will be held in Portland, Oregon, Aug 2 to Aug 4, 2005. NWA and HydroVision will co-host **The Hydrogen Economy 2006**. For information, contact Preston Michie, NWA Executive Director, 321 SE Alder Street #7, Portland, Oregon 97214.

### **TriMet Relion Fuel Cell:**

On October 11, BPA's Administrator and the TriMet General Manager dedicated a Relion Independence 1000 PEM fuel cell at the TriMet LIFT facility in Portland. The hydrogen fuel cell will provide backup power to keep sensitive equipment running when the regular electrical system fails. Monthly tours are available of this system; contact Mira Vowles at [mkvowles@bpa.gov](mailto:mkvowles@bpa.gov) for information.

### **Fuel Cell Calendar for 2006:**

- **Jan 6** – DoD Climate Change Fuel Cell solicitation opens
- **Jan 19** –Tour of TriMet Relion Fuel Cell
- **Feb 24** - Tour of TriMet Relion Fuel Cell
- **March 31** - DoD Climate Change Fuel Cell proposals due
- **Aug 1** - **The Hydrogen Economy 2006**