

Intergovernmental Stationary Fuel Cell System Demonstration (Topic 7)

Plug Power, Inc.

- Funding

DOE Cost Share	Recipient Cost Share	TOTAL
\$3,999,983	\$4,000,003	\$7,999,986
50%	50%	100%

- **Project Description:** Plug Power Inc. proposes an Intergovernmental Stationary Fuel Cell System Demonstration that will not only advance the state of the art of proton exchange membrane (PEM) fuel cell technologies, but will also establish a truly renewable fuel status to on-site fuel cell power generation. These achievements, in turn, will help to promote a positive public image that supports earlier consumer acceptance of the hydrogen economy vision. Plug Power will lead the project team effort to design, assemble, test and demonstrate the proposed ethanol-fueled, combined heat and power (CHP), grid-connected system. The resulting system will be a revolutionary, renewable energy prototype delivering 5 kW net electrical output. Project team partners include 3M Corporation, who will be responsible for membrane electrode assembly (MEA) development, Entegris, who will be responsible for stack hardware and molded component development and US Army Engineer Research and Development Center's Construction Engineering Research Laboratory (CERL) who will provide the host site and supports grid interconnectivity compliance. The host site will be at either CERL's Champaign, Illinois campus or at Robbins Air Force Base in Georgia.
- **Timeframe:** 33 month project, starting in FY07

Sub-Contractors

Institutions
3M
Entegris
US Army Engineer Research and Development Center's Construction Engineering Research Laboratory (CERL)