



eTec News

- September 2006 -

“U.S. Department of Energy awards \$678,529 to Electric Transportation Applications (sister company to eTec) for its application entitled “*Feasibility Study of Hydrogen Production at the Palo Verde Nuclear Generation Station.*”

The U.S. Department of Energy (USDOE), under the Funding Opportunity Announcement No. DE-FC07-06ID14788, entitled “*Feasibility Study of Hydrogen Production at the Palo Verde Nuclear Generation Station,*” awarded Electric Transportation Applications (ETA), a sister company eTec, a multi-year contract valued at \$678,529. Including project participant cost share, the total approved budget is \$871,846.

The application proposes to meet the following USDOE objectives:

1. To produce data and analyses on the economics of producing hydrogen at existing nuclear power plants using commercially available production technology in a 100 kilogram/day (kg/day) small-scale feasibility demonstration.
2. To determine whether the use of existing nuclear power plants is a cost effective means of producing hydrogen on a 1kg/second (kg/s) commercial-scale and determine the regulatory requirements and environmental impacts of demonstrating commercial hydrogen production at nuclear power plants..
3. To disseminate data and analyses produced from the small-scale feasibility demonstration and from analysis of the economics of a commercial-scale hydrogen production facility utilizing nuclear energy to the developing nuclear industry and to the public.

ETA will be assisted in conducting the proposed program of work by participants Arizona Public Service (APS) and the Idaho National Laboratory (INL). These organizations have a long history of cooperation, spanning nearly two decades, on projects sponsored by the USDOE. In addition to assistance from the program participants, ETA will receive support from Proton Energy Systems (Proton), Norsk-Hydro ASA (Hydro) and Air Products and Chemicals (Air Products) in evaluating the design requirements and economics of commercial-scale hydrogen production.

For additional information contact Kevin Morrow at 602-716-9576 ext.24.