



Princeton Power Systems Wins Contract from U.S. Department of Energy to Develop High Performance Commercial Scale Solar Conversion Technologies

PRINCETON, NJ, September 5, 2008 – Princeton Power Systems (PPS) announced the award of a contract from the U.S. Department of Energy (DOE) to develop advanced power conversion technologies under the Solar Energy Grid Integration Systems (SEGIS) program. This research and development grant will enable a complete design for a 100-kW demand response inverter based on PPS' proprietary inverter technology. The design will be optimized for low-cost, high-quality manufacture, and will integrate control capabilities including dynamic energy storage and demand response through load control.

"With this program we will push the envelope with our most advanced power conversion technologies, producing a new, more efficient, and more reliable inverter," said Mark Holveck, Chief Technology Officer for Princeton Power Systems. "Early estimates also suggest significantly smaller size and lower weight, leading to reduced materials and production costs."

Research and development under the SEGIS program will maximize the benefits of commercial solar energy systems for system owners and utility distribution networks, fostering high penetration of photovoltaic (PV) systems into the utility grid. Additional SEGIS contracts are anticipated in Fiscal Year 2009 for projects demonstrating the most promising technology advancements and potential commercial acceptance. The initial 9-month performance period includes two 1-year options; the contract is worth \$6.5M if both options are executed.

"This award further strengthens Princeton Power's capability to support wide-scale deployment of solar and other renewable energies," said Darren Hammell, PPS President and CEO. "The additional power quality and reliability improvements, combined with cost savings, will allow us to more effectively customize and mass produce for specific renewable energy applications."

The DOE selected twelve industry teams under the SEGIS award, including General Electric, EMTEC Emerson Network Power, and the Florida Solar Energy Center of the University of Central Florida. PPS leads a team which includes TDI Power, World Water and Solar Technologies Corp. The DOE's Sandia National Laboratories in Albuquerque, NM is providing project management support to SEGIS efforts.

About Sandia National Laboratories

Since 1949, Sandia National Laboratories has developed science-based technologies that support our national security. Today, the 300+ million Americans depend on Sandia's technology solutions to solve national and global threats to peace and freedom. Through science and technology, people, infrastructure, and partnerships, Sandia's mission is to meet national needs in five key areas:

- **Nuclear Weapons** ensuring the stockpile is safe, secure, reliable, and can support the United States' deterrence policy
- **Energy and Infrastructure Assurance** enhancing the surety of energy and other critical infrastructures
- **Nonproliferation** reducing the proliferation of weapons of mass destruction, the threat of nuclear accidents, and the potential for damage to the environment
- **Defense Systems and Assessments** addressing new threats to national security
- **Homeland Security** helping to protect our nation against terrorism

Sandia is a government-owned/contractor operated (GOCO) facility. Sandia Corporation, a Lockheed Martin company, manages Sandia for the U.S. Department of Energy's National Nuclear Security Administration.

About Princeton Power Systems

Princeton Power Systems is developing advanced power conversion technologies, including AC-link[™] and M-link[™], patented control methods that provide a more reliable and cost-effective means for converting electric power cleanly and efficiently. We have developed solutions for industrial motor control, renewable electricity and distributed power generation. Our products reduce industrial energy consumption, lower peak electric usage, and provide clean, renewable energy sources with better performance than other power conversion technologies.

Princeton Power's core products include motor controllers, wind turbine converters, and grid-tied inverters. AC-link and M-link incorporate advanced algorithms for controlling various aspects of the electric power, which allows the use of less- complex, less expensive hardware to achieve precision power control. This makes PPS' devices rugged, reliable and cost-effective, and yields high-quality power waveforms.

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