



## **United States Department of Energy Awards Princeton Power Systems Hydropower R&D Program**

**November 3, 2010** –Princeton Power Systems (PPS) is pleased to announce a new program award from the United States Department of Energy’s Wind and Hydropower Technologies Program, under the Marine and Hydrokinetic Technology Readiness Advancement fund. The multi-year program will fund PPS to develop an advanced power conditioning system for marine and hydrokinetic power generating applications, using PPS’ Distributed Generation Transformer™ and E-QUAD Power Flow Control™ technologies.

Under the program, PPS will advance its state-of-the-art power conditioning technologies in order to make marine distributed power applications more efficient, less expensive, and more reliable. In addition, PPS will work on combining advanced energy storage into the power conditioning system, in order to make power output smooth, reliable, and predictable.

“Our company has developed a set of power conditioning technologies to support distributed generation applications, and we are excited about the opportunity to apply them to the developing global markets for marine and hydropower applications,” stated Darren Hammell, Executive Vice President of Business Development and Co-founder. “This program will combine our expertise in commercial-scale distributed power and energy storage, with our generator control technologies and our military products designed for the harsh marine environment.”

Most marine energy sources are variable, physically distant from load centers, and bulky in size – combining a high-voltage switching section, internal high-frequency transformer, and a multi-port power conditioner, will enable smoothing intermittencies, an increase in transmission efficiency, and reduced overall size and cost. The technologies will also allow for low-cost high-voltage DC transmission (HVDC) directly to shore. With the awarded funding, Princeton Power Systems will develop the power conditioning system from prototype development to commercial deployment.

### **About Princeton Power Systems:**

Princeton Power Systems, founded in 2001, is a manufacturer of advanced power conversion products and alternative energy systems, with patented electronics that provide a more reliable and cost-effective means for converting electric power cleanly and efficiently. The company has solutions for renewable energy, distributed power generation, and military applications. Princeton Power Systems products reduce energy consumption, lower peak electric usage, and provide clean, renewable energy sources with superior performance.



**About the US Department of Energy's Wind and Water Power Program:**

The U.S. Department of Energy's Wind and Water Power Program leads the nation's efforts to improve the performance, lower the costs, and accelerate the deployment of wind and water power technologies. The program conducts research and development activities through competitively selected, cost-shared research and development projects with industry and in partnership with federal, state, and stakeholder groups.

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