



## **Power+Energy, Inc. Receives Third Order For Bulk Hydrogen Purification System**

*Key LED producer orders second bulk purifier system.*

For Immediate Release

IVYLAND, Pa./EWorldWire/Sep. 30, 2005 --- Power+Energy, Inc. (P+E) has recently received a repeat order for its innovative modular, PE9000 bulk hydrogen purification system. This system, with a capacity of 1300 standard liters per minute, will be shipped to an existing LED customer located in Japan. The system will be installed in the fourth quarter of 2005.

Introduced in July 2003, the PE9000 Series system provides customers with a highly reliable supply of Ultra-Pure Hydrogen (UPH) containing less than one part per billion total impurities. This UPH gas is typically used in the manufacture of advanced semiconductor devices such as light emitting diodes (LEDs), laser diodes and silicon carbide semiconductors. The system can be configured to supply from three hundred liters per minute up to ten thousand liters per minute (20,000 cubic feet per hour or 624 cubic meters per hour) of ultra-pure hydrogen.

The unique design of the PE9000 bulk system integrates multiple palladium membrane purifiers and P+E's next generation P130 control systems with PC-based centralized monitoring and control software. The proprietary software allows remote monitoring and control of the purifier system over LAN-connected PC's. Multiple redundant purifiers are mounted into modular racks. These modules include manifolding designed to allow individual purifiers to be serviced or hot-swapped without interruption to the facility's UPH supply. The PE 9000 systems feature integrated sensors and diagnostics to monitor system performance. If a problem is identified, the problem cell is isolated and a back-up purifier is put on line; avoiding yield losses and maintaining UPH system capacity.

### **About Power+Energy, Inc.**

Established in 1993, Power+Energy, Inc. develops and manufactures hydrogen purifiers and separators for a range of applications including semiconductor fabrication, analytical laboratories and fuel cell development. P+E has a worldwide customer base and supplies systems to many leading producers of compound semiconductors. The company is developing a new hybrid hydrogen separation technology specifically designed for fuel cell applications. This new membrane, based on advanced nano-structures, will be an enabling technology for the early adoption of fuel cells using hydrogen generated on demand from traditional or alternative liquid fuel sources.

In addition to its hydrogen purifier products, P+E offers a line of palladium membrane systems used for separation of hydrogen from reformed fuels for fuel cells and related applications. As a part of this effort, P+E is currently working under three DoD contracts for the fabrication of membrane systems to deliver high purity hydrogen from methanol and diesel fuels. P+E will also utilize this same hybrid membrane technology to develop lower cost hydrogen purifiers for an expanded range of semiconductor and research applications.

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**CONTACT:**

Albert Stubbmann  
Power and Energy, Inc.  
106 Railroad Drive  
Ivyland, PA 18974  
PHONE. 215-942-4600 ext 17  
FAX. 215-942-9300  
EMAIL: [al.s@powerandenergy.com](mailto:al.s@powerandenergy.com)  
<http://www.powerandenergy.com>

Toshi Wakui  
Power and Energy Japan  
Sadoya #2 Bldg, Room 103  
5-5-12, Utsukushigaoka, Aoba-ku  
Yokohama-city, Kanagawa-pref 225-0002  
PHONE. 045-905-2145  
FAX. 045-905-2146  
EMAIL: [twakui@powerandenergy.jp](mailto:twakui@powerandenergy.jp)  
<http://www.powerandenergy.jp>

**KEYWORDS:** fuel, cell, hydrogen, membrane, renewable, energy, ethanol, automobile, LED, Laser Diode, Compound Semiconductor

**SOURCE:** Power+Energy, Inc.