



**PHOTO AVAILABLE: Power+Energy, Inc. Introduces Next Generation Hydrogen Purifier System**

*New compact purifier design offers larger capacity, advanced performance and new features.*

For Immediate Release

IVYLAND, Pa./EWorldWire/Sep. 28, 2005 --- Power+Energy, Inc. (P+E) has recently introduced its next generation PE9000S Series purifiers. Incorporating many of the features from P+E's successful bulk hydrogen purifiers, the PE900S purifiers offer a greater capacity range, advanced features and high reliability in a very small package.

Introduced in September 2005, the PE9000S 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 (LED's), laser diodes and silicon carbide semiconductors. The 9000S Series offers models with capacities ranging from 30 liters per minute up to 650 liters per minute (two cubic meters per hour up to 40 cubic meters per hour) of ultra pure hydrogen. Multi-unit configurations are available for even greater capacity and redundancy.

The compact design of the PE9000S Series offers most of the features of P+E's bulk system including P+E's next generation P130 control systems with PC-based centralized monitoring and control software. The advanced software allows remote monitoring and control of the purifier system over LAN-connected PC's. The high efficiency counterflow heat exchanger minimizes power consumption and ensures that incoming hydrogen is preheated to process temperature. The PE9000S series also includes integrated ports and software for helium leak detection of the system allowing testing the membranes in hot or cold condition.

For data sheets or further information, visit [www.powerandenergy.com](http://www.powerandenergy.com).

**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>

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**AVAILABLE MEDIA:** Photo: Model PE9000S Hydrogen Purifier (size: 206.1 k)  
Next generation hydrogen purifier with advanced features  
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