

## PRESS RELEASE

# TURBODEN BREAKS INTO THE UK MARKET WITH FIRST ORDERS OF ENVIRONMENTALLY FRIENDLY 1 MWe HEAT RECOVERY ORC SYSTEMS

Brescia (Italy) – 9th June 2010 - **Turboden, a Pratt & Whitney Power Systems company**, with 30 years of expertise and experience in the design and manufacture of Organic Rankine Cycle (ORC) power generation systems, is breaking into the U.K. market with the sale of two modular heat recovery ORC units in London.

“Turboden is a market leader in organic rankine cycle technology with 150 power-generating facilities worldwide,” Pratt & Whitney Power Systems President Peter Christman said. “The closed-loop ORC process will provide Blue-NG with a high level of efficiency and low maintenance costs while generating up to 2 MWe of power with no harmful emissions.”

Blue-NG purchased the units for sites in east and west London. Blue-NG is a joint venture between National Grid, the UK's gas and power-distribution company, and 20C Ltd., a company well known in natural-gas pressure-reduction station projects.

**Land and Marine Project Engineering Ltd** is the overall design and build contractor for the projects, which are expected to be operational in the fourth quarter 2011. The installations are **heat recovery applications** from reciprocating engines with the capacity to generate up to 1 MWe of power each.

With Turboden, Pratt & Whitney Power Systems offers a spectrum of ORC products, characterized by high efficiency, high reliability, low maintenance costs and ease of installation and operation. In the heat recovery application, Turboden offers a series of modular ORC units with high efficiency, ranging in **sizes from 400kW to 4MWe**. This product line is complemented by Pratt & Whitney Power Systems' PureCycle® 280kW ORC unit.

Turboden systems are driven by a simple evaporation process and are entirely enclosed, which means they produce no emissions. The ORC systems can be powered with a variety of renewable energy sources including geothermal, biomass, solar thermal power and industrial waste heat.

With these two plants, **13 ORC plants worldwide operate on waste heat** from industrial processes, internal combustion engines and gas turbines. Five of these units are already working (in Belgium, Austria and Italy) and other 8 are under construction (in Italy, Germany, UK, Canada and Morocco). Overall **Turboden has supplied more than 150 units worldwide**, of which more than 130 plants are based on utilizing biomass, making Turboden the market leader in ORC technology for these applications.

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### **Turboden**

*Turboden, a Pratt & Whitney Power Systems company, is an Italian company and a global leader in the design, manufacture, and servicing of Organic Rankine Cycle (ORC) turbogenerators, which harness heat to generate electrical power from renewable sources, including solar energy, biomass, geothermal energy and waste heat. Turboden has more than 115 plants installed worldwide and offers standard turbogenerators from 200 kWel to 4 MWel (standard units) and up to 10 MWel (customized units). Turboden, a Pratt & Whitney Power Systems company, is a specialist in ORC technology in the world. [www.turboden.it](http://www.turboden.it)*

### **Pratt & Whitney**

*Pratt & Whitney, a United Technologies Corp. company (NYSE:UTX), is a world leader in the design, manufacture and service of aircraft engines, industrial gas turbines and space propulsion systems. [United Technologies](http://www.unitytechnologies.com), based in Hartford, Conn., is a diversified company providing high technology products and services to the global aerospace and commercial building industries.*

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