clean energy ahead
TURBODEN
A PRATT & WHITNEY POWER SYSTEMS COMPANY

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PRESS RELEASE

TURBODEN: 7 ORC PLANTS IN LATVIA IN LESS THAN ONE YEAR
They are co-generative plants feed with biomass in the range size of 600kWe and 2MWe

Brescia, 17 October 2011 – Turboden, leader in the production of turbogenerators with ORC technology (Organic Rankine Cycle), launches a variety of biomass projects in the Latvian Market and has reached 7 sold plants in less than one year.

"This is an important result and a proof of a great investment operated by the country Latvia in the field of renewable energies. In fact starting from 2007 the production of electricity from plants feed with biomass in Latvia has been boost through the introduction of a omni-comprehensive tariff, which is changeable between 130 and 170 €/MWh electricity produced. Furthermore EU structural funds have been allocated to the co-generative plants feed with biomass. The exploitation of the natural local resources for the combined production of electric energy and heat for replacing of traditional fossil fuels, resulted from the primary benefits a reduction of gas – importing from abroad and a consequent revision of the country's energy mix of the country in Latvia, which is focused on the improvement of energy efficiency of the installed plants and of the observation of the aims programmed by the European Union concerning the renewable energy. "said **Stefano Tavolo**, *Sales Manager of Eastern Europe* – Biomass Department of Turboden.

The main customers are general contractors as *Inos, Filter and Polytechnik*, while through the final customer there is the famous Latvian society, which acts in field of wood, *Betula Premium.*

Among the 7 plants, which will be installed, 4 of these will take advantage of the produced thermal energy for the district heating of 4 cities (Saldus, Gulbene, Kuldiga and Riga), 2 plants will produce electrical and thermal energy for the manufacturing processes in the wood industry field (Madonas Novads, Saldus); finally an ORC Turboden module will be installed both for the wood industry field and the supply of heat for district heating net of Jekabpils.

Turboden plans and develops turbogenerators with ORC technology for the combined generation of electrical and thermal power from different renewable sources including biomass, solar energy, the geothermal one and waste heat from industrial processes. Turboden is a Pratt & Whitney Power Systems' company, part of United Technologies Corp. (NYSE:UTX).

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Nowadays Turboden has more than 135 plants in operation all over the world and more than 70 under construction.

The **fueled with biomass** ORC Turboden units are almost 180 (**124 of these are already in operation**)

With these units, added with Pratt & Whitney Power Systems' ones, the two companies overtake the 280 ORC plants in the world.

The Turboden ORC technology is perfectly applicable to the electrical generation, co-generation and tri-generation using different renewable resources such as biomass, geothermal sources, solar energy and recovering the waste heat from industrial processes, from engines and from gas turbines. Turboden offers a range of ORC products with sizes from 250kW to 14 electrical MW.

The ORC system is based on a process which uses low-medium temperatures for the electrical generation.

The ORC units operate with a simple evaporation process and being close- loop systems don't produce harmful emissions into the atmosphere.

Turboden is 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, engines or gas turbine. Turboden has more than 130 installed plants in more than 20 countries and offers standard turbogenerators from 250kW to 4 electrical MW for standard units and up to 14 MW for customized solutions.
With a 2010 turnover of € 43 million and over 180 employees, Turboden is a specialist in ORC technology. www.turboden.it

Pratt & Whitney is a world leader in the design, manufacture and service of aircraft engines, space propulsion systems and industrial gas turbines and operate with over 36.000 employees in more than 180 countries worldwide. In 2010 has registered a turnover of $1.99B. The company is part of United Technologies, based in Hartford, Connecticut which counts 210.000 employees in over than 180 countries worldwide and sales of $54.3B in 2010.

For more information:

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