

PRESS RELEASE

TURBODEN TO COORDINATE THE H-REII PROJECT FOR THE REDUCTION OF CO₂ RELEASES

The area surrounding the city of Brescia hosts an energetic audit for the reduction of CO₂ emissions through the exploitation of the heat coming from many industries using high amounts of energy.

Brescia, 22nd January 2010 – **Turboden**, part of Pratt & Whitney Power Systems Company (UTC Group) and headquartered in Brescia, is a European leader in the realization of turbo generators based on the Organic Rankine Cycle (ORC). Turboden launched the **H-REII project (Heat Recovery in Energy Intensive Industries)** in collaboration with influential partners, such as the **Province of Brescia**, the **CSMT** (Technological and Multi-sector Service Centre), **AIB** (Industrial Association of Brescia) and **FIRE**, the Italian Federation of the Rational Use of Energy.

The project originates from the need of taking an active part into the development of policies supporting the realization of innovative heat recovery operations from **energy intensive industrial processes (iron and steel industries, aluminium and non-iron foundries, heat-treating processes, glass and chemical industries, ...)**, with the aim of achieving a drastic decrease of global CO₂ releases.

The **H-REII** project starts from the assumption that many industrial processes, in industrial areas with a high consumption of energy, generate heat with an energetic potential that remains unexploited. The idea is to investigate a limited area, in order to evaluate the actual savings in terms of energy and CO₂ reduction. By recovering the wasted heat, now dispersed in the atmosphere, it is possible to contribute to a sensible reduction of greenhouse gases released by industrial processes while at the same time helping to reach the objectives established by the European Union. The **H-REII** project entirely fulfills the aim of the European program named “LIFE+”, which implies a contribution from the EU for this kind of projects. A preliminary evaluation and the results of energetic audits carried out in the past months show that it is possible to estimate a potential saving of 316,000 tons/year and over 500 GW/year in energy savings through the realization of about 60 heat recovery plants using ORC technology in energy intensive processes.

This investigation, taking place in Brescia and surroundings, a highly industrialized area in Northern Italy, is a unique audit of this nature within these industrial sectors, can set a reference point in the national and a European landscape.

“The environmental scenario and the EU regulations call for choices that lead to the reduction of the environmental impact (in particular CO₂) and to the sensible use of energy” said **Marco Baresi**, head of the **H-REII** project at Turboden. “Regulations regarding heat recovery in industrial processes are currently developing at a European, national, regional and provincial level. Brescia - and the entire Region of Lombardy - is an area with a lot of industrial processes that generate heat with a high content of energy that



is not properly exploited. Heat recovery from industrial processes, together with the production of electricity, is the ideal solution for a real reduction of CO₂ releases" added **Baresi**.

Turboden

Turboden is a European leader in ORC technology for the generation and cogeneration of heat and power from renewable energy and heat recovery. With over 100 plants, an offer that includes standard models from 200kWel to 2.5MWel and customized solutions up to 10MWel, Turboden is recognised as a specialist in the ORC technology.

Pratt & Whitney

Pratt & Whitney (UTC group) is a world leader in the design, manufacture and service of aircraft engines, industrial gas turbines and space propulsion systems. The 2008 total sales was 2.12 billion dollars for a turnover of 12.97 billion dollars. The company employs over 38,000 people in 180 countries worldwide.

For further information please contact:

Now!PR
Daniele Comboni / Mattia Zanetti
danielec@nowpr.it / mattiaz@nowpr.it
Mob. +39.348.2660714 / +39. 335.7576144
Ph.: +39.02.881290.1