

## POSCO chooses Turboden for Energy Efficiency projects in Korea

South Korea is an energy intensive country and it represents one of the most promising markets in Asia for waste heat recovery.

Strong policies have been developed to complement emissions reduction target, taking effort to diversify energy sources and foster the development of renewable energy.

POSCO ICT is at the forefront to take up such commitment and working to qualify as leader in implementing energy efficiency projects. **POSCO ICT** has chosen **Turboden ORC technology** to comply with this mission.

The two Companies have entered a long term Cooperation Agreement to support each other in scouting and evaluating the applicability of ORC power plant within POSCO facilities and in South Korea.

A first result has soon arrived: in June 2018 Turboden and POSCO ICT have signed a Contract for an ORC turbogenerator to recover process gases from a submerged arc furnace (SAF) within POSCO steel manufacturing plant.

This first experience of heat recovery from SAF will be a demo project for POSCO ICT, to prove the ORC ease of operation and ease of incorporation within an existing process.

Paolo Bertuzzi, Turboden CEO and Managing Director states "On behalf of the whole team, I would like to express our pride and honor to enter the Korean market through the cooperation with its first class player, POSCO ICT; we deeply believe we have opened the way to a series of mutual successes in the field of energy efficiency".

Lee Chang-bok, Senior Director of POSCO ICT, said, "Turboden ORC power generation technology will be considered as one of the most efficient waste energy recovery technologies in various industrial fields as well as POSCO steelmaking plant as a technology that can infinitely create new applications. We are confident and will continue to expand our project development in collaboration with Turboden. "

The project is the first of many opportunities the two Companies intend to develop together, leveraging their respective leaderships to offer the same opportunity to other Korean Groups.

Turboden can boast of having successfully installed a number of ORC units within the iron and steel industry (heat recovery from EAF, reheating furnace, cupola furnace), from 700 kWe to 8 MWe, the oldest running from 2013.

The major players in glass, cement, steel industry (AGC, Saint Gobain, Lafarge Holcim, POSCO, Feralpi ...) have already chosen Turboden, sometimes with multiple orders, to increase their competitiveness through energy efficiency, thus confirming the outstanding competence and leadership of Turboden.

IBE Corporation is exclusive agent of Turboden in South Korea.

For more information:

email: Byung Nam Kim - bnkim@ibecorp.co.kr  
website: www.turboden.com  
Youtube Channel: www.youtube.com/user/TurbodenItaly

**Turboden**, a Mitsubishi Heavy Industries company, is an Italian firm and a global leader in the design, manufacture and maintenance of Organic Rankine Cycle (ORC) systems up to 20 MWe, highly suitable for distributed power generation. ORC systems can generate electric and thermal power exploiting multiple sources, such as renewables (biomass, geothermal energy, solar energy), traditional fuels and waste heat from industrial processes, waste incinerators, engines or gas turbines.

**POSCO ICT**, is creating a smarter world by applying the convergence technology of IT Knowledge and Industry Knowledge to industrial sites and other diverse areas such as energy, environment, etc. In particular, Smart Factory wherein all processes are monitored at a glance and automatically controlled with every piece of equipment and machine exchanging information on their own is established by applying industrial IoT to manufacturing sites. In addition, global-level ICT service optimized for the customer environment, ranging from consulting to system setup and IT outsourcing, is provided based on the wide range of experience and technological power accumulated. POSCO ICT provides Total Energy Optimization, which supports the optimization of energy by combining power generation, demand, transmission/distribution, and consumption into a Value Chain, in order to utilize efficiently the limited amount of energy. It addresses environmental problems caused by air pollution through the effective treatment and disposal of dusts and harmful substances discharged from industrial sites.



Signed MOU to cooperate business in ORC waste heat power projects  
(Mr. Andrea Magalini - Turboden, Mr. Lee Chang-Bok – POSCO ICT)