

PRESS RELEASE

NOW IN OPERATION THE FIRST 13.6 MWe ORC PLANT FOR THE TURKISH KASTAMONU ENTEGRE

Wood Based Panels facilities (Particle Board, MDF and OSB) exploit the wood waste to generate Combined Heat and Power thanks to 2 ORC systems (13.6 MWe each).

Brescia, Italy, 15 May 2023 - Turboden S.p.A., a Mitsubishi Heavy Industries Group Company, provided 2 ORC systems (13.6 MWe each) for the Turkish leading company in Wood Based Panels production Kastamonu Entegre Agac San. ve Tic. A.Ş. One of the two plants is now in operation.

Kastamonu has already other 3 ORC plants supplied by Turboden, in Gebze and in Balikesir, for a total of 5 biomass plants and 30 MWe installed.

Kastamonu Entegre produces industrial forest products such as MDF, Particle Board, OSB, laminate flooring for the furniture, decoration and construction sectors.

Turboden's high-efficiency ORC turbines, which offer reliable integrated energy solutions, were preferred for these projects, which are installed in the factories in **Balikesir** and **Kastamonu** provinces, to generate electricity **from wood waste and residuals from the production processes**.

Thanks to the integrated solutions of Turboden ORC technology, these projects, are designed specifically with the tailor-made method. **The CO₂ saving for electricity production will be 3.000 ton/year and for thermal will be 6.200 ton/year (equal to approximately 4.600 cars put out of circulation*).**

(*) – considering average EU car to emit 122,4 gCO₂eq/km ; hypothesis of 16.000 km/year

Turboden continues to strengthen its position as the **leading biomass ORC supplier in Turkey** and around the world, by increasing the number of ORC plants it has established in Turkey to 18 and its installed power to 115 MWe.

Turboden S.p.A., Mitsubishi Heavy Industries group company, is an Italian firm and a global leader in the design, manufacture, and maintenance of Organic Rankine Cycle (ORC) systems, highly suitable for distributed generation, that generate electric and thermal power exploiting multiple sources, such as renewables (biomass and geothermal energy), traditional fuels, and waste heat from industrial processes, waste incinerators, engines, or gas turbines. Today Turboden expands its technological solutions with gas expanders and large heat pumps to play a broader role in the decarbonisation of the district heating sector and of energy-intensive industrial processes.

www.turboden.com

Hayat Holding, whose roots date back to 1937, continues its global activities with its nearly 17.000 employees in the world, with its 41 companies in different sectors such as **Kastamonu Entegre** in the wood-based panel sector, Hayat Kimya in the FMCG sector, Limaş in the port management sector, and construction and packaging. Produced with advanced technologies in 36 production facilities in 13 countries under the umbrella of Hayat Holding, 46 Turkish brands meet millions of consumers around the world.

Kastamonu Entegre Ağaç Sanayi, one of the two locomotive companies of Hayat Holding, was established in 1969 to produce in the wood-based panel industry and is currently the 1st in Turkey, 4th in Europe and 6th in the world. It has become a global power.

<https://www.kastamonuentegre.com.tr/>

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