

Turboden to supply a 2.3 MWe plant to Güres in Turkey

*The ORC system supplied by Turboden will be part of an innovative process
that generates electricity from chicken manure.*

Brescia, August 24th 2017 – **Turboden**, a group company of Mitsubishi Heavy Industries (MHI), leader in Organic Rankine Cycle (ORC) turbogenerators for distributed power generation from renewable sources and waste heat, signed an order with **Güres** for a new ORC unit to be installed at the company's main production site in Manisa, Turkey.

Güres is the largest integrated egg producer in the Republic of Turkey with an annual production of about 800 Million eggs.

The **Turboden 2.3 MWe ORC** converts the heat from the combustion of chicken litter into **electric power and hot water**. While the electricity will be sold to the grid at a feed-in tariff specific for bioenergy, the hot water will be employed in tailor-made dryers specifically designed by Güres to dry up the chicken litter (before its combustion). The feedstock – about 300 ton/day - will be entirely sourced from Güres' egg production process. The start-up of the plant is scheduled for the third quarter of 2018.

The project is the result of several years of R&D activities undertaken by Güres, whose ambitious project could turn a major environmental issue into clean energy.

The main components of the ORC unit will be produced locally by Turboden's Turkish subsidiary **Turboden Turkey A.Ş.** and thanks to the local made content, Güres will enjoy a higher feed-in tariff for electricity sales, which will increase from 133 USD/MWh to 153 USD/MWh.

Turboden has **10 plants in Turkey**, of which 6 already in operation, with an overall power capacity of 35.7 MWe.

Turboden, a Mitsubishi Heavy Industries company, is an Italian company and a global leader in the design, manufacture, and maintenance of Organic Rankine Cycle (ORC) turbogenerators, which harness heat to generate electric and thermal power from renewable sources (biomass, geothermal and solar energy), traditional fuels and waste heat from industrial processes, waste incinerators, engines or gas turbines. Turboden has more than 350 plants in 38 countries and offers turbogenerators up to 20 MWe. www.turboden.com

Güres, is the largest integrated egg plant in the Republic of Turkey. Its combined structure hosts egg production plants, feed factory, egg tray factory, broody hen, pullet, breeding productions plants, fertilizer productions plants, and technology factory. Güres Group is producing annually 800,000,000 eggs and is servicing to the entire Turkey and overseas market through layer hen cage productions, in closed area of 200,000 square meters and on open area of 600,000 square meters. <http://www.gures.com.tr/en/>

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