Waste Heat Recovery Boiler downstream Fluidized Bed Furnace - Corlu
Reference Sheet
The largest Turkish cardboard producer expands the energy supply at an existing site 90 km north-west of Istanbul with a new boiler unit. Waste products such as paper sludge and several organic residues are incinerated in a fluidized bed combustor. The flue gases are cooled in a waste heat recovery boiler to generate high pressure steam for electricity production and heat supply for the cardboard production process. An external, directly gas-fired superheater additionally increases the high pressure steam temperature to optimize electricity production.

**TECHNICAL DATA**

- **Thermal output**: 90 MW
- **Electrical output**: up to 30 MW
- **Max. continuous rating (MCR)**: 97 t/h
- **Steam pressure**: 68 bar(a)
- **Steam temperature**: 380/535 °C
- **Fuel**: sludge, organic residual materials, natural gas

**SCOPE OF SUPPLY**

- Complete boiler plant
- Feed water system
- Direct-fired external superheater
- Field devices