

HEAT RECOVERY  
BIOMASS  
PRIMARY FUELS  
SOLID RESIDUES  
LIQUID & GASEOUS RESIDUES

## CCP PLANT PLATTLING GERMANY



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Energy Source	GT Exhaust Gas
Gas Turbine Type	GE – PG 6111
GT-Exhaust Gas Flow	214.5 kg/s
GT-Exhaust Gas Temperature	592 °C
GT-Electric Output	77 MW
Steam Capacity	201 t/h
Steam Temperature	532 °C
Steam Pressure	92 bar
Feed Water Temperature	80 – 90 °C
FG Temp. Boiler Outlet	110 °C
RTI Aux. Firing System	58 MW
Fuel AFS	Natural gas
Type of Boiler	Natural Circulation
Year of Commissioning	2010

### THE TASK

Kraftwerk Plattling GmbH, a subsidiary of E.ON Energy Projects, constructed at the location of the paper mill of the Myllykoski Group in Plattling a CHP power plant as a combined gas and steam turbine plant. The power plant is intended to ensure that the adjoining paper mill is supplied with process steam, as well as, with electric energy by means of cogeneration. Standardkessel Baumgarte was given the task of constructing the heat recovery boiler for fully automatic and economical continuous operation at high efficiency and availability with, at the same time, maximum reliability of the steam supply being achieved.

### THE SOLUTION

In order to solve the problem Standardkessel Baumgarte is supplying a heat recovery boiler of horizontal construction. The heat recovery boiler in the power plant in Plattling is operated downstream of a GE 6FA gas turbine with an approx. 60 MW auxiliary firing system and a cooled combustion chamber. At full load, the HRB reaches a steaming capacity of 201 t/h at a steam pressure of 92 bar and a steam temperature of 532 °C. The gas and steam turbines together generate up to 110 MW of electricity, the process steam being taken off at a low stage from the pass-out condensation turbine. Besides the heat recovery boiler, Standardkessel Baumgarte is supplying the associated steelwork, the flue gas duct between the gas turbine and the heat recovery boiler, the silencer and the stack, as well as, the field instrumentation and the complete burner control system.

### SCOPE OF SUPPLY

- Single-pressure HRB with Condensate Heat Exchanger
- Auxiliary Gas Firing System
- Structural Steelwork, Stairs and Platforms
- Ancillary Plants
- Stack
- Silencer

### SERVICES

- Work of Obtaining Approvals / Licences
- Planning and Design Engineering
- Erection
- Commissioning

