HEAT RECOVERY BIOMASS

PRIMARY FUELS

SOLID RESIDUES

LIQUID & GASEOUS RESIDUES



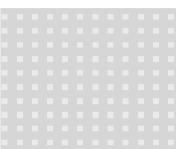
## PROCESS STEAM BOILER PLANT FOR A CHEMICAL COMPANY, GERMANY





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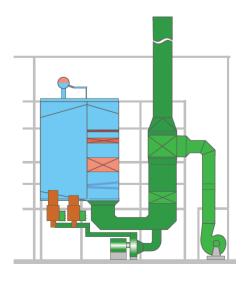








Fuel	Natural Gas, Production Residues (g)
Calorific Value (min./max.)	32,500/ 37,800 MJ/Nm³
Fuel Throughput Rate (max.)	12,150 Nm³/h
Thermal Capacity of Firing System (max.)	121 MW
Steam Capacity	150 t/h
Steam Temperature	520 °C
Steam Pressure	112 bar
Feedwater Temperature	145°C
Waste Gas Temperature	130 °C
Operating Licence	13th Federal Immission Protection Ordinance (13. BlmSchV/SVTI)
Year of Commissioning	2012



#### THE TASK

The consisting power plant is operated by the customer to supply the adjoining refinery with electricity and process steam. As the 'old' boilers Nos. 1 and 2 are not in compliance with the new environmental guidelines and could not be retrofitted, either, Standardkessel Baumgarte was entrusted with the task of constructing constructing a new boiler no. 8 in order to cover the energy requirements using the plant's own production residues and, with the concept implemented, to ensure the safeguarding of the steam supply at the location.

#### THE SOLUTION

The steam generator boiler no. 8 was conceived as a 3-pass radiant boiler and is of a vertical type of construction. The firing system is designed as a floor-mounted firing system with a total of 4 burners. In the case of operation on natural gas, a flue-gas recirculation system is provided for the reduction of NOx emissions as well as for superheated steam temperature support.

### **SCOPE OF SUPPLY**

- Steam Generator
- Firing System for Gaseous Fuels
- Air and Flue Gas Ducts
- Stack
- Piping
- Electrical And Instrumentation and Control Components
- Steelwork, Stairs and Platforms

#### **SERVICES**

- Engineering incl. Obtaining of Approvals / Licences and Liaising with Authorities
- Delivery, Erection and Commissioning
- Trial Operation