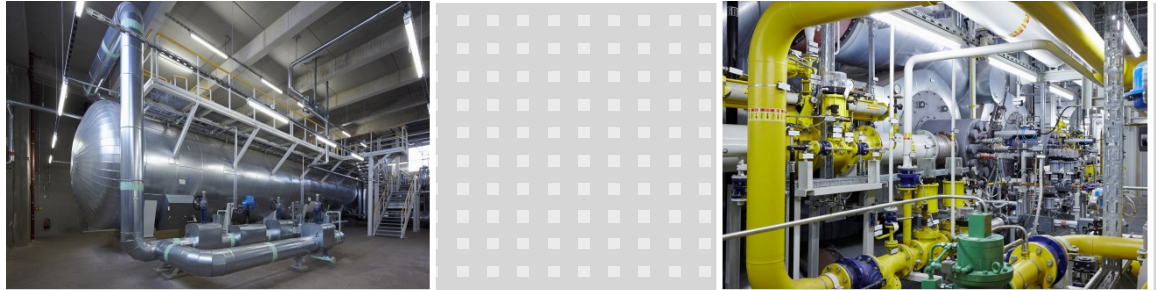


HEAT RECOVERY  
BIOMASS  
PRIMARY FUELS  
SOLID RESIDUES  
LIQUID & GASEOUS RESIDUES

## POWER PLANT SALZGITTER GERMANY



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Number of Lines	2
Fuel	BFG / Converter Gas
Calorific Value	3.436 MJ/Nm <sup>3</sup>
Rated Thermal Input	250 MW
Fuel	Coke Oven Gas
Calorific Value	17.24 MJ/Nm <sup>3</sup>
Rated Thermal Input	180 MW
Fuel	Natural Gas
Rated Thermal Input	180 MW
Fuel	Fuel Oil EL
Rated Thermal Input	150 MW
Rated Thermal Input (total)	298 MW
Steam Capacity HP / RH	340 / 320 t/h
Steam Temperature HP / RH	568 / 563 °C
Steam Pressure HP / RH	168 / 45 bar
Feedwater Temperature	255 °C
Flue Gas Volume Flow	451,000 m <sup>3</sup> /h in normal state
FG Temp. Boiler Outlet	130 °C
Operating Licence	13th Federal Immission Protection Ordinance (13. BImSchV)
Year of Commissioning	2010

### THE TASK

The steam generator plant covers a part of the supply of electricity and heat for the steel production process of SZFG. Special demands concerning the technical solution were made on high availability, the high quality standard, low emission values and high efficiency with low station service of the plant. The steam generator is integrated into the newly constructed power plant.

### THE SOLUTION

The steam generators were designed as radiant boilers of a 2-pass type of construction and arranged suspended in the structural steelwork of the boiler. The firing system is designed as a frontal firing system with a total of 6 burners. In order to reduce the NO<sub>x</sub> emissions, a flue gas recirculation system has been provided. The boiler generates superheated steam and is equipped with a reheater. By means of a heat displacement system involving combustion air, flue gas, feedwater and blast furnace gas / converter gas, optimum operation is achieved with low emission values and a high efficiency.

### SCOPE OF SUPPLY

- Blast Furnace Gas / Converter Gas Fan Station
- Heat Displacement System
- Combustion Air System incl. Air Preheating
- Steam Generators
- Structural Steelwork, Stairs And Platforms
- Waste Gas System as far as the Existing Stack

### Services

- Engineering
- Erection and Commissioning
- Trial Operation

