

- HEAT RECOVERY
- BIOMASS
- PRIMARY FUELS
- SOLID RESIDUES
- LIQUID & GASEOUS RESIDUES

BIOMASS POWER PLANT ULM, GERMANY



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Fuel	Waste Wood (A1 - A4), Natural Gas, Fuel Oil
Low Heating Value (min./max./nom.)	8.0 / 15.0 / 10.4 MJ/kg
Fuel Throughput (min./max./nom.)	13.7 / 25.7 / 19.8 t/h
Rated Thermal Input	57.2 MW
Electrical Power Output	8.6 MW
Steam Turbine Back Pressure	4.0 bar g
Steam Capacity	64 t/h
Steam Temperature	452 °C
Steam Pressure	65 bar
Feed Water Temperature	120 °C
Rated Flue Gas Volume	97,200 m ³ /h i.N.
FG-Temperature	155 / 200 °C
Operating Approval	17. BlmSchV
Type of Boiler	Natural Circulation
Year of Commissioning	2004

THE TASK

At the location of Ulm the existing power plant should be extended with one biomass fired power plant. The task of the new biomass plant was to supply electrical power and district heat to the surrounding households.

To fulfil this task, the process of combined heat and power generation should be realised by using wood as fuel.

The order was placed to Standardkessel Baumgarte in November 2002.

THE SOLUTION

The plant is equipped with the following procedural units. The fuel is delivered by trucks. Beginning with the receiving station consisting of 2 moving floors the fuel is conveyed into 4 storage silos. From there the fuel arrives in the boiler area via a multi stage conveying system.

The thermal part consists of grate firing system, steam generator and flue gas cleaning.

In addition to the technical equipment of the power plant: as back pressure steam turbine, water- /steam cycle, electrical instrumentation and control system also the complete civil part including all auxiliary buildings were belonging to Standardkessel Baumgarte's scope.

SCOPE OF SUPPLY

- Civil Works
- Fuel Reception and Transport
- Grate System
- Boiler
- Flue Gas Treatment
- Water-/Steam-Cycle
- Electrical Instrumentation and Control System

ENGINEERING SERVICES

- Engineering incl. Licensing Engineering and Engineering for official Permits
- Assembly and Commissioning
- Trial-Run

