

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

BVA HAGEN KABEL HAGEN, GERMANY



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Fuel	Waste Wood (A1 - A4)
Low Heating Value (min./max./nom.)	8.6 / 15.0 / 10.0 MJ/kg
Fuel Throughput (min./max./nom.) per Line	10.3 / 18.0 / 15.5 t/h
Rated Thermal Input	2 x 43 MW
Electrical Power Output	20 MW
Steam Capacity	2 x 45 t/h
Steam Temperature	452 °C
Steam Pressure	60 bar
Feed Water Temperature	105 °C
Rated Flue Gas Volume	92,600 m ³ /h i.N.
FG-Temperature	180 °C
Operating Approval	17. BlmSchV
Type of Boiler	Natural Circulation
Year of Commissioning	2005

THE TASK

Located at Hagen a biomass power generation plant shall extend the existing cogeneration plant.

The new biomass power generation plant (BVA) shall on the one hand, supply the surrounding households with electricity and, on the other hand, the adjacent workshop with process steam. Hereby, the principle of cogeneration shall be applied.

Timber and other biogene fuels, according to the biomass regulation, shall be used as fuels.

The order for realisation of the plant was placed with Standardkessel Baumgarte in March 2003.

THE SOLUTION

The plant is equipped with the following procedural units: The fuel is delivered by trucks. Beginning with the receiving station the fuel is conveyed into the storage silos. From there the fuel arrives in the boiler area via a tube belt conveyor. The thermal part consists of grate firing system, steam generator and flue gas cleaning.

The grate system and the steam generator are executed in two lines. A common dry three-stage flue gas treatment plant is installed downstream the two boiler lines.

The electrical energy being generated in the turbine/generator is fed into the public grid and the process steam into the steam net of the heating power station.

SCOPE OF SUPPLY

Turn-key Biomass Power Station

- 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

