

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

BIOMASS POWER PLANT UNTERRADLBERG, AUSTRIA



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Fuel	Wood Residues (solid), Grinding Dust, Waste Wood
Low Heating Value (min./max.)	9.0 / 14.0 MJ/kg
Fuel Throughput (min./max.)	6.2 / 16.0 t/h
Rated Thermal Input	40 MW
Electrical Power Output	10 MW
Process Heat Output	3.5 MW
Steam Capacity	45 t/h
Steam Temperature	452 °C
Steam Pressure	61 bar
Feed Water Temperature	110 °C
Rated Flue Gas Volume	73,300 m ³ i.N./h
FG-Temperature	170 °C
Operating Approval	AVV
Type of Boiler	Natural Circulation
Year of Commissioning	2006

THE TASK

For the chip board factory in Unterradlberg, Egger planned the construction and operation of a biomass-fired power plant for the low-cost generation of electricity together with process steam for the chip board production plant. Both were to be obtained from waste wood and the residual materials left over from the production process.

The order was placed to Standardkessel Baumgarte in November 2004.

THE SOLUTION

The solution implemented by Standardkessel Baumgarte with a grate stoker and a system for the injection of saw dust into the steam generator furnace ensures, on the one hand, efficient utilisation of the residual material accumulating and, on the other hand, a contribution to sustainable environmental protection by means of the use of "renewable energy sources" for the generation of the power for station service.

Downstream of the 4-pass steam generator, which is working according to the natural circulation principle, a dry flue gas treatment plant is installed.

The plant was taken into operation in May 2006.

SCOPE OF SUPPLY

Biomass Boiler Plant

- Fuel Reception and Transport
- Grate System, Boiler
- Flue Gas Treatment
- Electrical Instrumentation and Control System
- Auxiliary Equipment

ENGINEERING SERVICES

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

