

- HEAT RECOVERY
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## BIOMASS POWER PLANT RAMBERVILLERS, FRANCE



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<b>Fuel</b>	Waste Wood (A1-A4), Fresh Wood, Wood Dusts, Natural Gas
<b>Heating Value Grate (min./nom./max.)</b>	7.5 / 9.4 / 14.9 MJ/kg
<b>Heating Value Injection (min./nom./max.)</b>	12.5 / 14.9 / 16.5 MJ/kg
<b>Heating Value Dust Burner</b>	17.1 MJ/kg
<b>Fuel Throughput Rate (nom.)</b>	161,184 t/a
<b>Rated Thermal Input</b>	55 MW
<b>Electrical Capacity</b>	9.6 MW
<b>Heat Extraction</b>	8 MW
<b>Steam Capacity</b>	55 t/h
<b>Steam Pressure</b>	81 bar
<b>Steam Temperature</b>	500 °C
<b>Feedwater Temperature</b>	108 °C
<b>Flue Gas Volume Flow (nom.)</b>	94,752 m <sup>3</sup> /h i.N.
<b>Exhaust Gas Temperature</b>	136 °C
<b>Year of Commissioning</b>	2018

### THE TASK

EGGER Panneaux de decors is planning a new biomass-fired cogeneration plant at the Rambervillers location in France. The steam generator for the new power plant is being constructed by Standardkessel Baumgarte. In future, the cogeneration plant will produce both saturated steam for heating thermal oil and superheated steam for the steam turbine to generate electricity and process steam.

### THE SOLUTION

The new steam generator produces both saturated steam for heating thermal oil and superheated steam by means of a steam turbine generator. The exhaust steam from the turbine is used as process heat.

Various types of wood waste from production, as well as, a percentage of fresh wood required by law are used as fuels. The steam generator is operated with a total of three different firing systems: moving grate firing system, direct firing system and combined gas/dust burners. In this way, for the diverse types of production waste the respective optimum firing system is used and extremely low emission values can be achieved.

### SCOPE OF SUPPLY

- Firing System
- Boiler
- Ancillary Facilities
- External Piping

### ENGINEERING SERVICES

- Engineering incl. Approval Engineering
- Erection and Commissioning
- Trial Operation

