

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

RDF POWER PLANT WEENER GERMANY



RDF POWER PLANT WEENER, GERMANY



Number of Lines	1
Fuel	Domestic/ Industrial refuse
Heating Value (min./max./nom.)	11.0 / 18.0 / 14.0 MJ/kg
Fuel-Throughput (min./max./nom.)	12.6 / 21.0 / 18.0 t/h
Rated Thermal Input	70 MW
Steam Capacity	85 t/h
Steam Pressure	27 bar
Steam Temperature	320 °C
Feedwater Temperature	103 °C
Flue-Gas Flow	140,000 m ³ i. N./h
Exhaust-Gas Temperature	160 °C
Operating Approval	17. Federal German Pollution Control Act
Year of Commissioning	2008

THE TASK

To supply the paper mill situated near the installation site with steam energy and electrical power gained from the combustion of waste, a concept was to be prepared representing a high plant availability.

THE SOLUTION

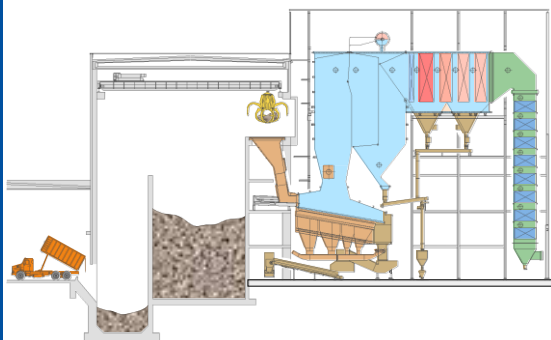
The implementation of the most recent know how gained with existing plants, as well as, the low steam parameters were decisive criterions for the concept. The combustion line was realized with a dual-track, completely water-cooled pusher-type combustion grate system, a steam generator with two radiation passes located downstream the furnace area, a tail end with the installation of evaporator and superheater surfaces, and an economizer in vertical construction.

SCOPE OF SUPPLY

- Main Steam Generator with Fittings
- Heating Surface Cleaning in Form of a Spraying, Rapping and Soot Blower Systems
- Pusher-Type Grate System incl. Ancillary Equipment
- Ignition and Auxiliary Firing
- SNCR Unit
- Refractory Lining and Furnace Area Cladding
- Thermal Protection und Sound Insulation
- Feed-Water Tank with Deaerator, Feed-Water Pumps and Fittings
- Boiler Supporting Structure with Stairs and Platforms
- Measurement Boiler Equipment
- Electro, Control, Measuring and Process Technology

ENGINEERING SERVICES

- Engineering incl. Approval and Official Engineering
- Installation and Commissioning
- Trial Run



Example