

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

## TRB BITTERFELD GERMANY



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<b>Number of Lines</b>	1
<b>Fuel</b>	Domestic / Industrial refuse
<b>Heating Value ( min./max./nom.)</b>	11.0 / 18.0 / 15.0 MJ/kg
<b>Fuel-Throughput ( min./max./nom.)</b>	10.1 / 16.8 / 13.44 t/h
<b>Rated Thermal Input</b>	56 MW
<b>Steam Capacity</b>	64. 4t/h
<b>Steam Pressure</b>	43 bar
<b>Steam Temperature</b>	400 °C
<b>Feedwater Temperature</b>	105 °C
<b>Flue-Gas Flow</b>	109,000 m³ i. N./h
<b>Exhaust-Gas Temperature</b>	160 - 190 °C
<b>Operating Approval</b>	17. Federal German Pollution Control Act
<b>Year of Commissioning</b>	2009

### THE TASK

In order to ensure an environmentally friendly supply of energy to the companies located in the Chemiepark Bitterfeld Wolfen, a waste to energy power plant was to be built. The power plant system, designed on the basis of cogeneration, shall feed the generated power into the local network and supply the annual amount of generated heat to the local companies. The technical concept of the combustion line had to comply with a plant system that Standardkessel Baumgarte completed in the year 2007.

### THE SOLUTION

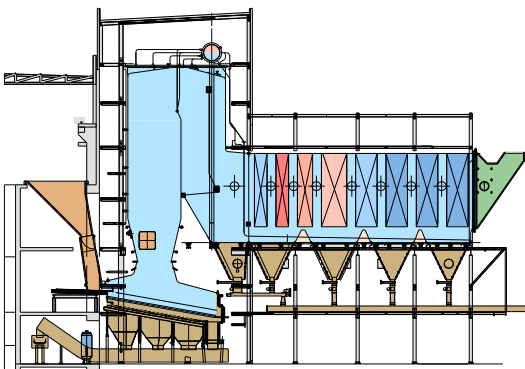
The basic planning of the realised boiler type allowed a macroeconomic solution for the plant design taking the changed performance data into consideration. The firing system conceived as a water-cooled pusher-type grate, is attached to the steam generator consisting of the furnace area with a downstream radiation pass and lowered tail end pass.

### SCOPE OF SUPPLY

- Steam Generator with Valves and Accessories
- Heating Surface Cleaning System as Water Spraying and Mechanical Rapping Device
- Pusher-type Grate System including All Accessory Systems
- Ignition and Auxiliary Firing System with Fuel Storage and Conveying System
- Boiler-house Steel Structure, Facework and Building Services
- Steel Structure for the Firing System and Boiler including Stairs and Platforms
- Refractory Lining and Heat Insulation
- Flue-gas Cleaning Plant, Forced Draft Fan and Steel Stack
- Metrological Equipment

### ENGINEERING SERVICES

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



Example