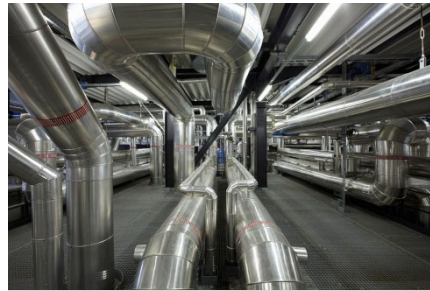


- HEAT RECOVERY
- BIOMASS
- PRIMARY FUELS
- SOLID RESIDUES
- LIQUID & GASEOUS RESIDUES

RDF CHP PLANT ROMONTA DK7 AMSDORF, GERMANY



RDF CHP PLANT ROMONTA DK7



THE TASK

Romonta EBS GmbH plans to further expand the waste utilisation centre for a capacity of 240,000 t/a RDF and to discontinue the previous energy recovery of the residual coal produced in the company's own power plant by 2024.

To ensure the necessary heat supply for the site, a new steam generation plant with RDF firing is to be built.

Standardkessel Baumgarte was commissioned with the construction of the RDF power plant. Romonta and Standardkessel Baumgarte have already worked together successfully on the construction of RDF boiler plants in 2004 and 2009.

THE SOLUTION

The plant is designed with the already proven Standardkessel Baumgarte firing and boiler concept. The core of the plant is a water-cooled moving grate and a steam generator in tail-end design. The flue gases are cleaned in a downstream flue gas cleaning system that operates according to the dry adsorption principle.

SCOPE OF SUPPLY

- Grate Firing System incl. Feed Chute and Feed Slide Valve
- Combustion Air System
- Steam Generator with Auxiliaries and Heating Surface Cleaning
- Ignition and Auxiliary Firing System with Fuel Storage and Conveying System
- Grate and Boiler Ash Removal System
- Refractory Linings and Thermal Insulation
- Partial Water-Steam Cycle
- SNCR
- Flue Gas Treatment System
- Compressed Air Generation and Distribution
- Waste Cranes and Slag Crane
- Electrical, Instrumentation and Control
- Steel Construction

ENGINEERING SERVICES

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

Number of Lines	1
Fuel	Refuse Derived Fuel / Municipal Solid Waste
Heating Value (min./nom./max.)	8 / 13 / 18 MJ/kg
Fuel Throughput (min./nom./max.)	10.66 / 15.23 / 18.0 t/h
Rated Thermal Input	55 MW _{th}
Steam Capacity	64 t/h
Steam Pressure	77 bar
Steam Temperature	422 °C
Feed Water Temperature	103 °C
Flue Gas Flow	108,790 Nm ³ /h(wet)
Exhaust-Gas Temperature	140 °C
Emission Limit Value	17. BImSchV
Year of Commissioning	2024