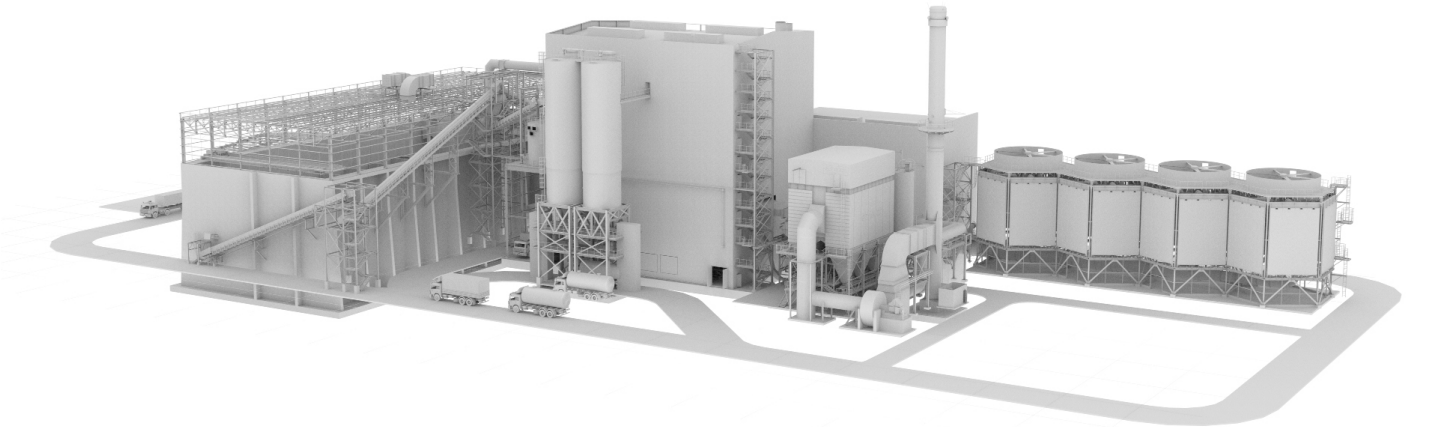


REFERENCE SHEET

BFB boiler with water-steam cycle | Turkey



MORE EFFICIENCY



Bubbling fluidized bed boiler with an efficient water-steam cycle

Bubbling fluidized bed power plant fired with chicken manure with a thermal capacity of 100 MW. Chicken manure is a demanding fuel due to the high alkali and ash content. This leads to heavy fouling of the boiler heating surfaces, which must be taken into account in the boiler design. For this reason, an SCS cleaning system was installed for the first and second boiler pass and a soot blower in the third boiler pass, as well as a shot cleaning system in the economizer pass. In order to obtain ash with a lower pollutant content and to reduce ash disposal cost, an ash pre-separation system with skimmers was integrated upstream of the flue gas cleaning system.

Technical Data	
Firing capacity	100 MW
Electrical output	30 MW
Steam flow (MCR)	126 t/h
Steam pressure	70 bar(a)
Steam temperature	470°C
Fuel	chicken manure
Country	Turkey

Scope of Supply

- Fuel dosing system
- Steam boiler with integrated bubbling fluidized bed firing system
- Flue gas treatment with additive dosing system
- Urea based SNCR system for NOx reduction
- Steam turbine and air cooled condenser
- Balance of Plant
- Operation and control system

