

## REFERENCE SHEET

BFB boiler for fibre sludge | Schoellershammer

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Bubbling fluidized bed boiler for fibre sludge

Bubbling fluidized bed boiler with 23 MW fuel heat input for fibre sludge, mixed with up to 50 % coarse rejects and up to 15 % bio sludge. In order to reduce ash disposal costs, an ash pre-separation system with cyclones was installed upstream of flue gas cleaning to obtain ash with a lower pollutant content. An SCR system was foreseen downstream of the dry sorption system and the bag filter to ensure lowest NOx emissions. As the dry sorption flue gas cleaning is operated at 210–220 °C, no flue gas preheating is required upstream of the SCR system.

For optimized performance and maximum boiler efficiency, heat recovery was implemented with a feed water preheater downstream of the SCR.



Scope of Supply

- Fuel dosing system
- Steam boiler with integrated bubbling fluidized bed firing system
- Flue gas treatment with additive dosing system
- SCR DeNOx System for lowest NOx emissions
- Balance of Plant
- Operation and control system



Technical Data	
Firing capacity	23 MW
Steam pressure	23 bar (a)
Steam temperature	222 °C
Fuel	fibre sludge, up to 50 % coarse rejects and up to 15 % biosludge
Country	Germany

