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REFERENCE SHEET

Biomass BFB boiler power plant | SAICA Champblain

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Biomass fired power plant with bubbling fluidized bed technology

Bubbling fluidized bed boiler with a thermal capacity of 74 MW fired with waste wood, which is mixed with up to 50 % paper rejects. The power plant is suitable for fuels with high N content of up to 2.4 % d.b. and Cl content of up to 0.5 % d.b.

To reduce NOx emissions, an urea-based SNCR system was installed and an ammonia slip catalyst downstream of the dry sorption system and the bag house filter reduces ammonia emissions. After the ammonia slip catalyst, the heat is recovered with a feed water preheater in order to achieve an optimized performance and maximum boiler efficiency.

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 DeNOx system
- Balance of plant
- Operation and control system
- Boiler house including facade

Technical Data	
Firing capacity	74 MW
Steam flow (MCR)	95 t/h
Steam pressure	46 bar (a)
Steam temperature	360 °C
Fuel	waste wood, up to 50 % rejects
Country	France