

stationary fluidised bed combustion

Max. rated thermal output: 40.4 MWth

Electrical power: 11.34 MWeI

Boiler efficiency: 89.5 %

El. Efficiency: 32 %

Annual biomass requirement: 100,000 tons

Fuels: Clas AI-AIII waste wood, tree and shrub cuttings, bark, wood chips from the agriculture and forestry, sawmill byproducts, reed

Pollution control authorities' approval: 17th BImSchV

Immission law licence: [mg/Nm³]:

Nitrogen oxides as NOx

200

Carbon monoxide CO

50

HCl

10

HF

1

Dust

10



The power plant produces, 7 days a week 24 hours a day renewable energy and supplies in this case about 25,000 households with green, base-load electricity power.

Contact address:

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Triebstrasse 90

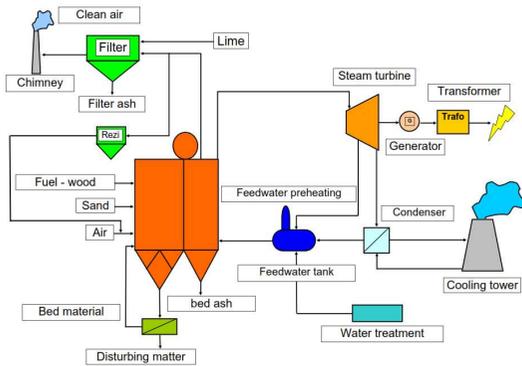
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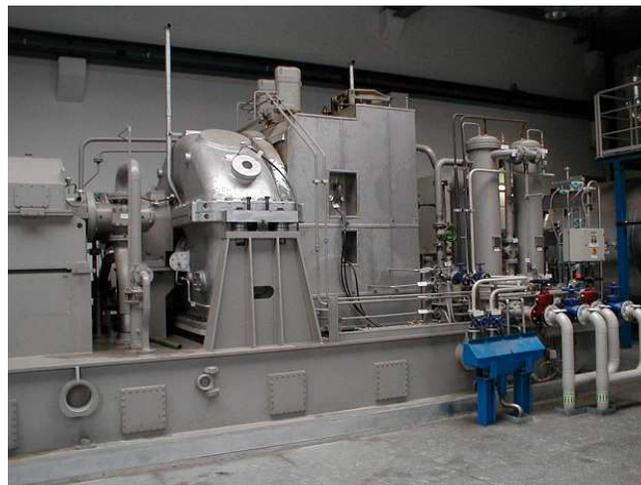
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Environmentally friendly energy:
 Through the elaborate process of fluidised bed combustion, which causes an intimate mixing is out of fuel and combustion air as well as excellent heat distribution within the combustion chamber, can be derived from biomass with low calorific produce low emissions energy.
 The effective flue gas cleaning system with bag filters ensures that the emission limits are well below.
 The combination of fluidised bed combustion and turbine generator with high efficiency results in an environmentally friendly and efficient power generation.



The power plant consists essentially of the fluidised bed boiler, which transfers the energy stored in the wood by burning on the water-steam cycle of the power plant. The turbine-generator that generates energy from the steam of the boiler as well as the current condenser and cooling tower, which ensure that the steam is liquefied and can be used as feed water back to the boiler. This water-steam cycle is closed and requires only small amounts of additional water. Also very important is the flue gas cleaning, which ensures that the power plant is operated with minimum emissions.



Resource-efficient power generation from renewable resources:
 The biomass power plant uses waste wood, fuels from industrial processing and weak wood from forestry as a source of energy. The renewable forest is the energy released during the combustion CO2 again. In this closed loop no additional greenhouse gases are produced.
 The greenhouse gas savings compared to a Power plant using German hard coal mining is approximately 60,000 tons of CO2 per year.