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HOST BIOENERGY SYSTEMS



INDUSTRIAL BIOMASS BOILERS

8 - 25 MWth | 1 - 10 MWe

EMPOWERING SUSTAINABILITY AMBITIONS

www.host-bioenergy.com

YOUR SOLUTION FOR RENEWABLE BIOMASS ENERGY

- MULTIFUEL CAPABILITY
- LOWEST EMISSIONS
- HIGH (ELECTRICAL) EFFICIENCY
- ROBUST & LONG LIFETIME
- OPTIMAL COMBUSTION TECHNOLOGY
- FUTURE-PROOF ENGINEERED

HoSt industrial biomass & waste-fired boilers are available in a wide range of configuration options in the capacity of 8 - 25 MWth and 1 – 10 MWe for the production of steam, hot water, and electricity suitable for various industrial processes and applications.

Thanks to smart engineering, high efficiency is reached, a long lifetime is guaranteed, and maintenance stops and costs are reduced to a minimum. HoSt offers turn-key standardized solutions (EP/EPC).

TECHNICAL SPECIFICATIONS

- **Thermal capacity:** 8 - 25 MWth
- **Power:** 1 - 10 MWe
- **Feedstock size:** Up to 30 cm
- **Feedstock ash content:** Up to 25%
- **Pressure:** 6 - 90 bara
- **Temperature:** 60 - 480 °C
- **Load range:** 30% - 100%
- **Availability:** >8300h/year
- **Efficiency:** 88% - 93%
  (up to 120% with a flue gas condenser)

FUELS
Wood (waste) / RDF / Other solid biomass & waste

END PRODUCT
Steam, hot water, electricity, CO_2

SERVICES
Turn-key supply: Engineering / Installation / Commissioning / 24-7 Service & Maintenance

APPLICATIONS
Sawmills / Pellet mills / Cardboard & Paper mills / Greenhouses / District heating / Process industry / Food & Beverage industry / etc.

CONFIGURATION OPTIONS

FUEL STORAGE / INFEEDING
Storage: hydraulic moving floor / silo or bunker with automatic overhead crane.
Infeeding: hydraulic push infeeder / screws.

BOILER
Water tube steam boiler / Fire tube steam boiler. Both with soot blowers for online cleaning that ensures high availability.

TURBINE
Single stage steam turbine / Multistage steam turbine / Controlled extraction / Back-pressure / Condensing turbine.

FLUE GAS CLEANING
Bag house filter (with optional additive injection system) / ESP / Wet scrubber / CEMS / Sodium bicarbonate injection (BICAR) / Lime injection / Activated carbon (AC) injection / DeNOx with SNCR (urea/ammonia injection) and/or with SCR / 2 sec. residence time above 850 °C / WID/IED/BREF/ BImSchV 17 / 44 compliant.

