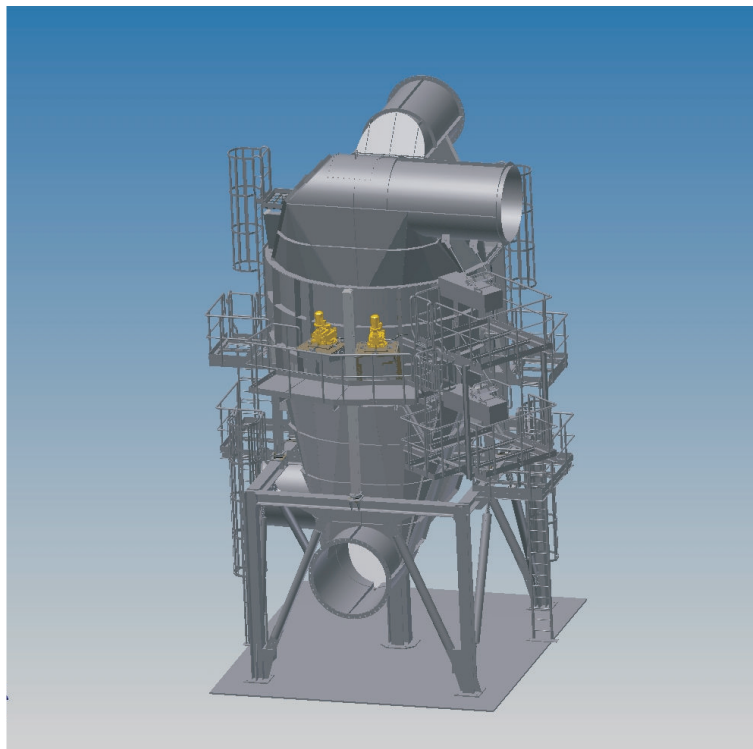


Enna Power Plant



Air preheater for biomass boiler



The APH is installed in the air/flue gas duct system and is used to preheat the combustion air prior to entering the boiler by exchanging heat with the hot flue gases.

The APH is of the rotary regenerative type with a matrix of heating elements which transfer the heat by alternately being heated by the flue gases and cooled by the air for the combustion.

The APH is a bi-sector type with one sector for the flue gas and one sector for the air. The heater is provided with BWE's advanced Active Leakage Control system in order to minimize the leakage of air to flue gas.

BWE has been awarded contract for the supply of an Air Preheater (APH) to be installed at the first biomass cogeneration plant in the Sicilian region of Enna, Italy. The owner of the plant is RWE Innogy Italia together with its joint venture partner Fri-El Green Power and the Roman company Infrastrutture e Gestioni S.p.A. Commissioning is due in late 2012.

The biomass plant has a capacity of 18.7 megawatts and is designed for a power generation output of 128,000 megawatt-hours. This is enough to supply about 30,000 residential households with electricity per year. The biomass fuel will come from the regional eucalyptus tree plantations.

World leader in steam power technology

Burmeister & Wain Energy A/S has specialized in the development and design of advanced steam boiler plants for utility and biomass fired power stations.

Furthermore, BWE designs a wide range of auxiliary power station equipment such as the BWE Low-NOx coal/oil/N-gas/biomass burners, Air Preheaters and Gas-Gas Heaters.

BWE is part of the Italian STF S.p.A. Group.

Performance Data:

Air side:

Flow, outlet 36 kg/s
Temperature, inlet 35 °C
Temperature, outlet 161 °C

Flue gas side:

Flow, inlet 39 kg/s
Temperature, inlet 180 °C
Temperature, outlet 72 °C

Dimensions:

Type: VI 21.0 / 2250

Rotor diameter 5.20 m
Rotor height 2.55 m
Rotor speed 1.0 min⁻¹
Hot end elements DU
Height 850 mm
Intermediate layer DU
Height 850 mm
Cold end elements DU
Height 550 mm
Heating surface 6,900 m²

Total weight 75 tons

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