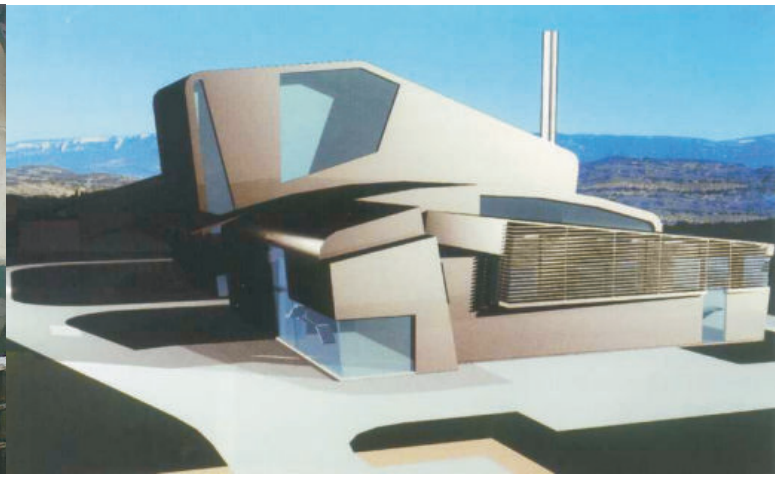
Sangüesa Power Plant

Air preheater for straw fired boiler



Energía Hidroelectrica de Navarra (EHN), Spain, is one of the wold's largest producers of renewable energy. In 1999 EHN signed a contract with FLS miljø for the supply of a complete turnkey, straw fired, power plant to be located in Sangüesa in the Navara Province of Spain. Included in the boiler supply is also an air preheater (APH).

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.

In order to protect the elements from corrosion and to ease soot blowing the elements are enameled.

The APH is a bi-sector type with one sector for the flue gas, one sector for the air. The heater is provided with an automatic, sliding shoe sealing system for the radial seals, which ensure a very low leakage of air to flue gas side.

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	30 kg/s
Temperature, inlet	40 °C
Temperature, outlet	224 °C

Flue gas side:

Flow, inlet	38 kg/s
Temperature, inlet	260 °C
Temperature, outlet	120 °C

Dimensions:

Type: VI 21.0 / 1600

Rotor diameter	5.02 m
Rotor height	1.85 m
Rotor speed	1.5 min^{-1}
Hot end elements	DU+E
Height	800 mm
Cold end elements	DU+E
Height	800 mm
Heating surface	4,320 m^2
Total weight	75 tons

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