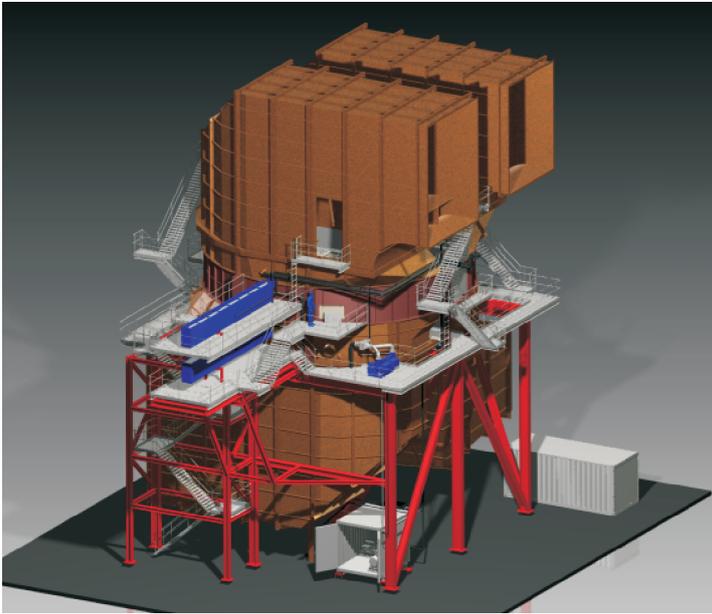


Centrale di Fusina

1 Gas-Gas Heater for FGD Plant



In 2005 BWSC (then:BWE) in consortium with STF S.p.A. was awarded the contract from the Italian generator Enel for the delivery of a GGH to be installed at the new common flue gas desulphurization plant (FGD) for units 1 & 2 at the Fusina Power Station close to Venice in Italy.

The GGH is used to reheat the treated flue gas in order to secure the necessary lift of the flue gas. The heat for this reheating is taken from the hot untreated flue gas entering the FGD plant and thereby cooling the gas.

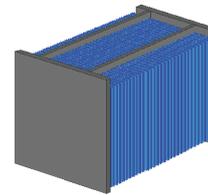
The GGH is of the counter-flow rotary regenerative type with a matrix of heating elements transferring the heat by alternately being heated by the untreated gas and cooled by the treated gas.

As the untreated flue gas is very aggressive, the heating elements are protected with vitreous enamel as corrosion protection. The baskets in the cold end are protected by having a special enamel coating (CerMet).

The GGH is provided with an automatic, sensor controlled

sealing system for the upper radial sector plates ensuring very low leakage of untreated gas to the treated gas side. In addition the GGH is equipped with a leakage minimizing system purging untreated gas out of the rotor sector before it enters the treated gas side.

The contract also comprised the connecting ducts, steel structure and galleries.



Fully enameled cold end basket

Performance Data:

Untreated Flue Gas:

Flow, inlet 355 Nm³/s
 Temperature, inlet 130 °C
 Temperature, outlet 89 °C

Treated Flue Gas:

Flow, inlet 410 Nm³/s
 Temperature, inlet 55 °C
 Temperature, outlet 90 °C

Dimensions:

Type: GVI 31.0 / 1100

Rotor diameter 12.71 m
 Rotor height 1,450 mm
 Rotor speed 1.0 min⁻¹
 Heating elements UNF14+E
 Height - cold end 350 mm
 Height - hot end 750 mm
 Leakage < 0.5 %

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