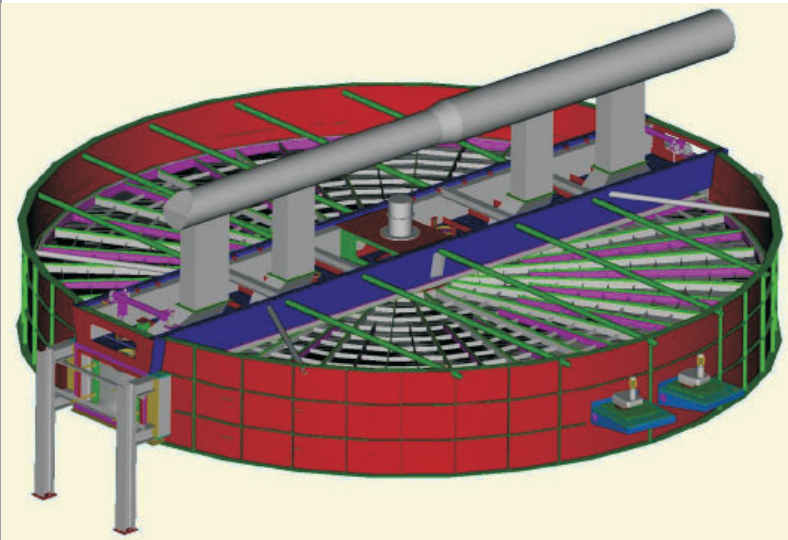


West Burton Power Station



4 Gas-Gas Heaters for FGD Plant



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 enamel as corrosion protection.

The GGHs are provided with an automatic, sensor controlled, sealing system for the upper radial seals which ensures very low leakage of untreated gas to the treated gas side.

In 2000 FLS miljø in consortium with MHI was awarded the contract for the delivery of four FGD plants to be installed at the 4 x 500 MWe West Burton Power Station in Nottinghamshire, England operated by EdF Energy. As part of the scope of supply FLS miljø installed four BWE Gas-Gas Heaters (GGH) for reheat of the treated flue gases.

The West Burton FGD plants use the Double Contact Flow Scrubber (DCFS) process and in each unit more than 2 mio. Nm^3/h of flue gases are

cleaned and the four units are thereby removing 150,000 tons of sulfur dioxide per year.

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

The GGH is of the counterflow rotary regenerative type with a matrix of heating elements which transfers the heat by alternately being

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-NO_x 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:

Untreated Flue Gas:

Flow, inlet 578 Nm^3/s
 Temperature, inlet 130 °C
 Temperature, outlet 84 °C

Treated Flue Gas:

Flow, inlet 640 Nm^3/s
 Temperature, inlet 44 °C
 Temperature, outlet 85 °C

Dimensions:

Type: GVI 33.5 / 975

Rotor diameter 16.11 m
 Rotor height 1,000 mm
 Rotor speed 1.0 min^{-1}
 Heating elements UNF+E
 Height 750 mm
 Heating surface 25,620 m^2

Total weight 430 tons

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