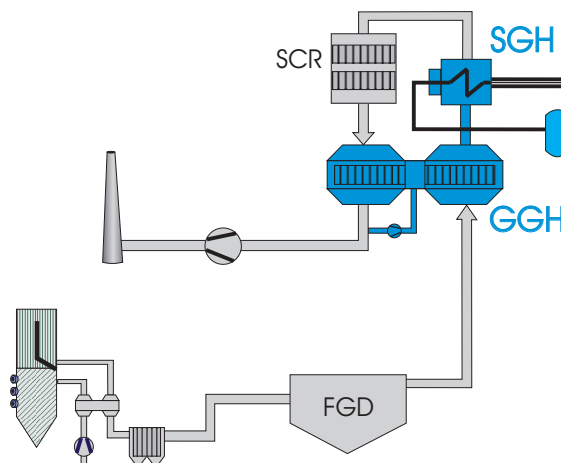
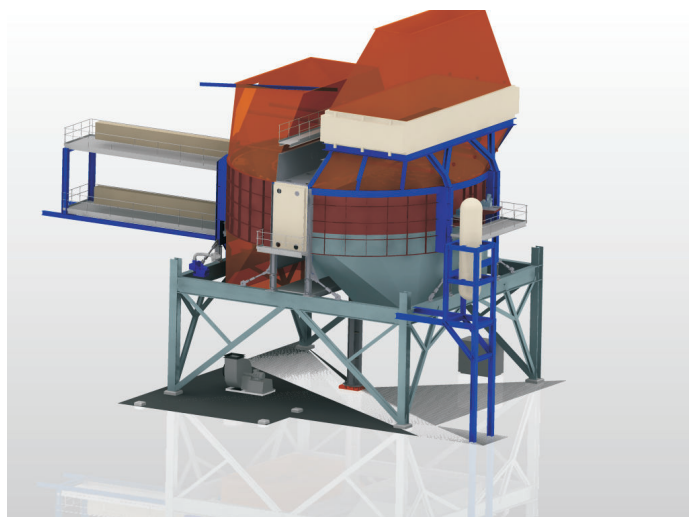


Amager Power Station



A Gas-Gas Heater and a Steam Gas Heater for the Tail-end DeNOx Plant



In 2006 Vattenfall A/S, Nordic Generation, Thermal Power, awarded a contract to BWE for heat exchangers for Amager Power Station Unit 1, Denmark. This followed the previous orders to BWE for the main boiler and the HP piping.

The contract was part of the major upgrade of Unit 1 and comprised the design, delivery and erection of a rotating regenerative Gas-Gas Heater

(GGH) and a Steam Gas Heater (SGH). The two exchangers are part of the new environmental plant and are used for heating up the flue gas from 50°C to 315°C prior to the catalytic removal of NOx in a Tail-end DeNOx process.

The erection activities started early 2007 and the plant is scheduled to start commercial operation in 2009.

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:

Duty - GGH: 47,080 kW
Duty - SGH: 5,060 kW

Untreated Flue Gas:

Flow, inlet 164 kg/s
Temperature, inlet 49 °C
Temperature, outlet GGH 291 °C
Temperature, outlet SGH 316 °C

Treated Flue Gas:

Flow, inlet 177 kg/s
Temperature, inlet 315 °C
Temperature, outlet 79 °C

GGH Specification:

Type: GVID 32.5 / 3000

Rotor diameter 14.66 m
Rotor height 3,300 mm
Rotor speed 0.8 min⁻¹

Heating elements:

Profile type - cold end layer DU+E
Height - cold end layer 800 mm
Profile type - intermediate layer CU+E
Height - intermediate layer 1,100 mm
Profile type - hot end layer CU
Height - hot end layer 1,100 mm
Total heating surface 104,020 m²

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