

- HEAT RECOVERY
- BIOMASS
- PRIMARY FUELS
- SOLID RESIDUES
- LIQUID & GASEOUS RESIDUES

CCP PLANT PALM PAPER KING'S LYNN, GREAT BRITAIN



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Energy Source	GT Exhaust Gas
Type of Gas Turbine	SGT-700
GT-Exhaust Gas Flow	95.6 kg/s
GT-Exhaust Gas Temperature	537.3 °C
GT-Electrical Output	32.7 MW
Steam Capacity HP / LP	81 / 11.2 t/h
Steam Temperature HP / LP	515 / 145 °C
Steam Pressure HP / LP	90 / 4.2 bar
Feedwater Temperature	80 - 105 °C
FG Temp. Boiler Outlet	81 °C
Fuel for Auxiliary Firing	Natural Gas
Year of Commissioning	2018

THE TASK

Palm Paper Ltd. operates a paper mill for newsprint paper at the King's Lynn location. This paper mill is currently supplied with steam by two shell boilers. To ensure the economical supply of the paper mill with electricity and steam, Standardkessel Baumgarte is to construct a waste heat recovery boiler with an auxiliary firing system.

THE SOLUTION

The new plant is a component part of a cogeneration plant, consisting of a gas turbine with downstream, supplementary fired heat recovery boiler. The vertically arranged steam generator is designed as a two-pressure system, consisting of a high-pressure and a low-pressure part. The HP and the LP steam generated is fed to the steam turbine and generates electricity. Arranged downstream of the HP and LP part is a hot water system that supplies to the heating system. Natural gas is provided as a fuel for the gas turbine and the auxiliary firing system.

SCOPE OF SUPPLY

- Auxiliary Firing System
- Boiler
- Hot Water System with Heat Exchanger
- Chimney with Flue Gas Damper
- Ancillary Plants
- Pressure Reducing Station
- External Piping

ENGINEERING SERVICES

- Engineering
- Assembly
- Commissioning

