

HEAT RECOVERY STEAM GENERATOR

NORDLAND, GERMANY

UNIS Power has successfully supplied Heat Recovery Steam Generator (HRSG) for UPM Nordland Papier located in Dörpen, Germany. UPM Nordland Papier belongs to Finnish UPM Group. The HRSG is part of a high efficient combined heat and power plant. It is built to secure electrical power supply, to reduce the CO₂ footprint and to work as main asset together with the existing heat only boilers and electrical boiler to ensure the heat demand of the paper mill.

The HRSG is of horizontal design with supporting structure integrated into a self-standing boiler modules filled by rows of tubes, so called "harps", creating heating surface of the boiler. The installation is of single pressure system with duct burner installed in between superheater bundles. The special burner arrangement enables to maintain outlet steam parameters within all operational cases required by paper machines.

In order to allow maximum boiler prefabrication, transport logistics have been carefully investigated. Completely pre-assembled "half-modules" (so called C-pieces) have been supplied to the site ready for installation, each exceeding weight of 100 tons.

All equipment has been supplied in full compliance with EN standards and norms.



Client

UPM Nordland Papier

Year of Completion

2022

Boiler data

- 130 t/h
- 105 bar(a)
- 525 °C
- single pressure
- horizontal design with duct burner

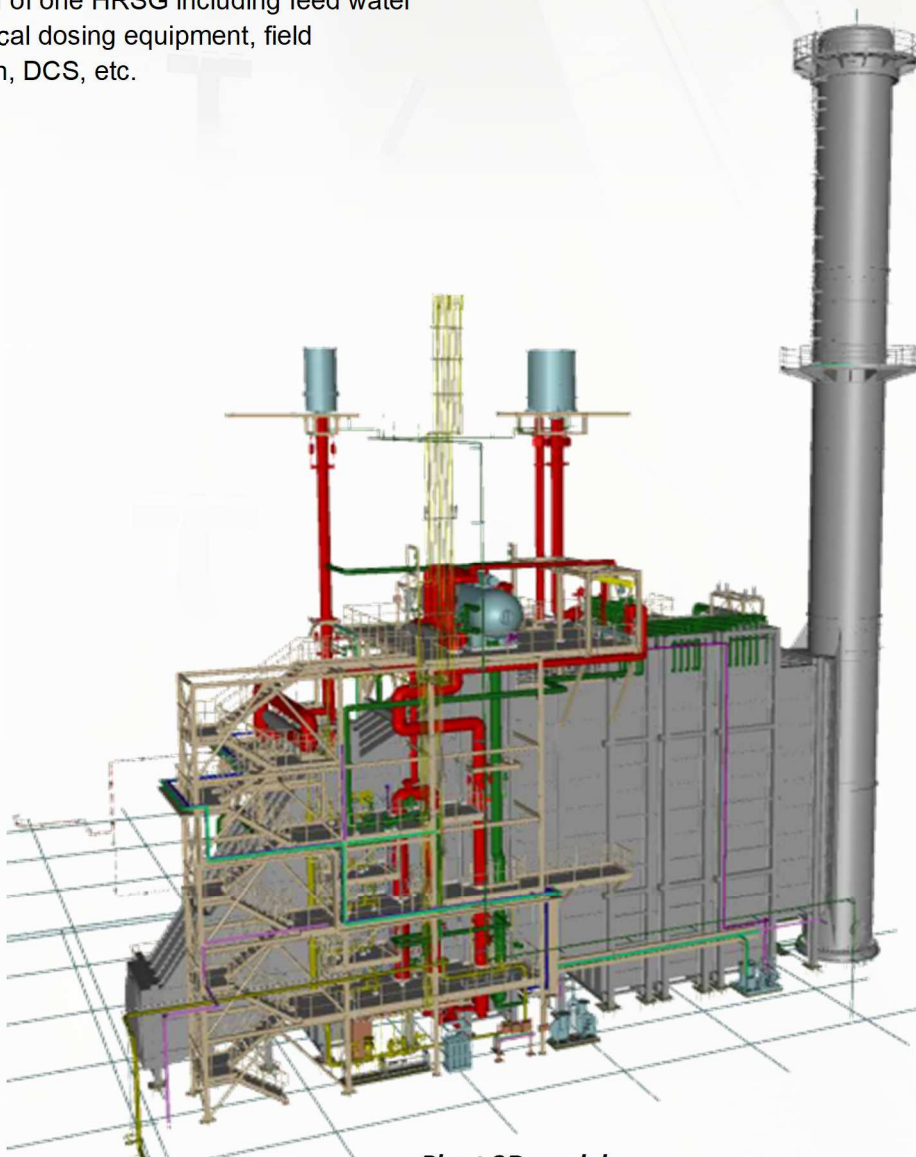


UNIS Power scope of work

Design, manufacturing, delivery, erection and commissioning of one HRSG including feed water system, chemical dosing equipment, field instrumentation, DCS, etc.

Gas turbine

SGT800



Plant 3D model