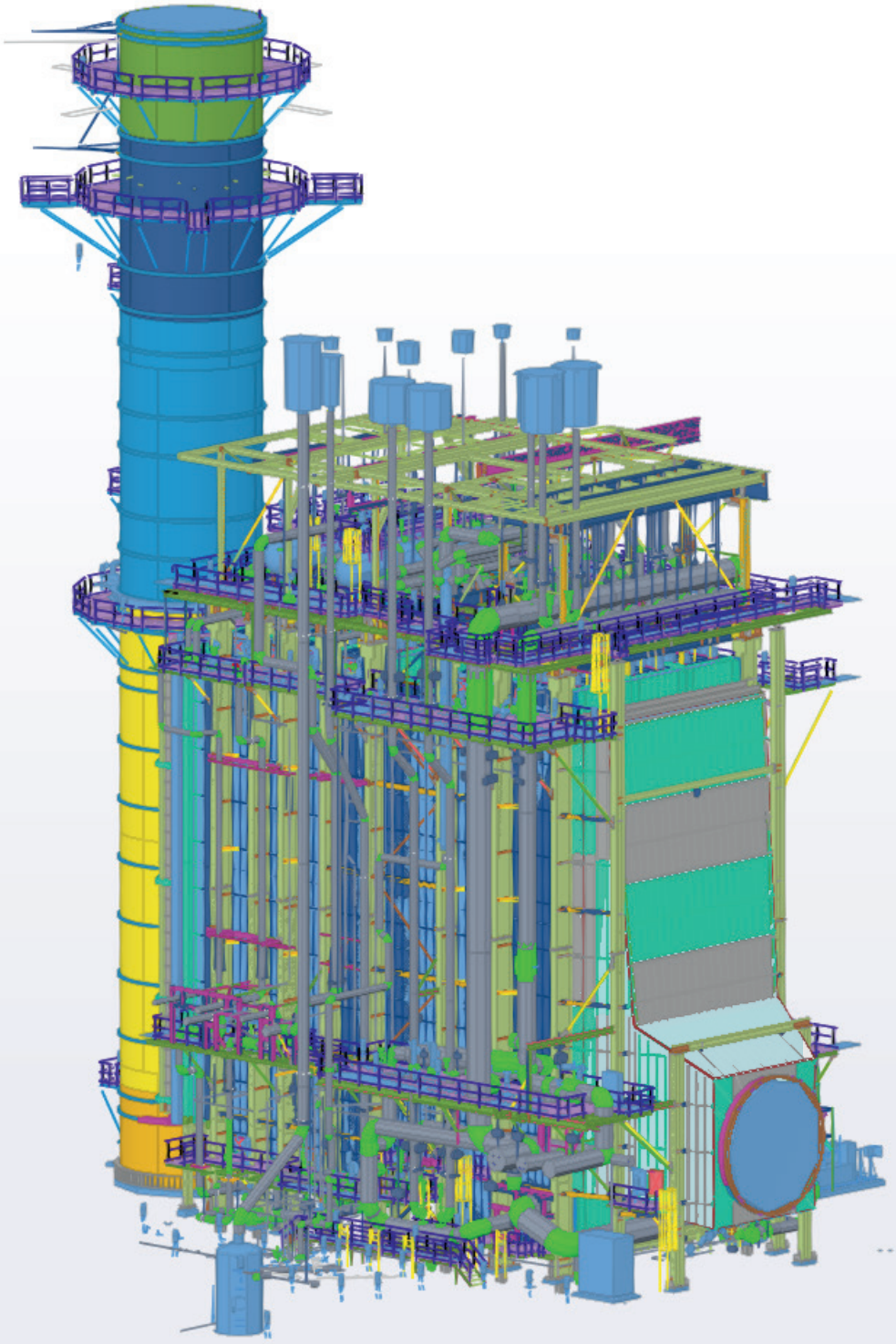
Adamow, Poland

560 MW



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Context of the Project

The Adamow power station was a five-unit coal-fired power completed during the mid-sixties. The Adamów brown coal mine was a large open-pit mine in Turek, central Poland, 208 km west of Warsaw. At that time this was one of the largest lignite reserves in Poland.

In August 2020 the mine closed, and the power plant was decommissioned. Two years later, the owner ZEPAK launched a tender to convert the power plant into a 560 MW gas-fired plant.

This future state-of-the-art power plant will support the country's energy transition, as the Polish authorities have recently adopted ambitious targets towards lower-emission sources.

This repowering is also part of Polskie Sieci Elektroenergetyczne SA's plan to adapt its electricity transmission network.

The Contract

Siemens awarded a contract to John Cockerill for the design and supply of one HRSG of the Benson Technology, triple pressure with reheat to be installed downstream of a SGT5-4000F gas turbine on the brownfield of Adamow.

Erection and commissionning is also under John Cockerill supervision.

Plant Operation

The plant is designed for base load.

Gas Turbine

- SGT5-4000F
- Fuel: natural gas

Heat Recovery Steam Generator

- 1 horizontal John Cockerill HRSG
- HP Benson
- Triple pressure level with reheat
- SCR (Selective Catalytic Reducer)
- Design PED / ASME Stamped

Performances

GT Outlet Data	°C		kg/s
Outlet	620.5		805
Steam	**°C**	**barA**	**t/h**
HP	586	171	343
IP	338	39	75
LP	251	5	46
Reheat	585	36	393

Schedule

Contract Award	December 2023
Start Boiler Erection	Month 2024
First Firing	Month 2024
Commissioning	Month 2024

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