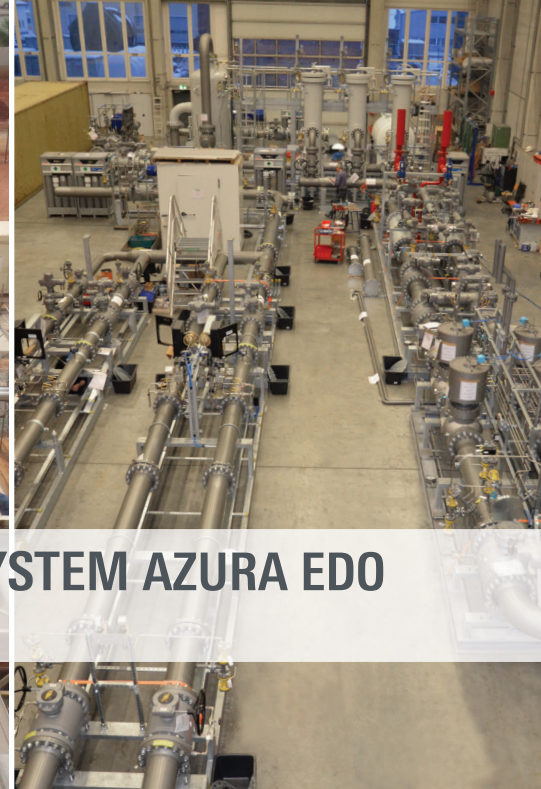




PLANT CONSTRUCTION

GAS SUPPLY SYSTEM AZURA EDO
Nigeria



GAS SUPPLY SYSTEM AZURA EDO Nigeria

Client: Siemens AG

To provide the region around Benin City in southern Nigeria with a stable power grid and thus to supply 900,000 households, MAX STREICHER Anlagentechnik GmbH & Co. KG was commissioned with the production of a gas supply system for a gas turbine power plant. The plant is part of the Azura Edo power plant project of the Azura Power West Africa with a capacity up to 459 MW. The range of tasks of STREICHER included the concept, the complex logistic planning, the entire production of the gas supply system as well as the packaging and delivery. The main focus in the conception of the gas supply system was laid on high availability and solide construction.

Critical functional modules, such as gas filtration, were provided redundantly. This ensures trouble-free operation of the power plant, even under the rough conditions in Nigeria. Another challenge was the high natural gas temperature that has to be reached. Therefore, a total of 16 MW combustion performance was planned, built and delivered to supply the natural gas heat exchangers. This combustion performance was based on redundant heat generators, too.

Project details

Client	Siemens AG
Scope of service	Concept, planning, complete manufacturing of the gas supply system, delivery
Location	Benin City, Nigeria
Design pressure	100 bar
Capacity	459 MW
Heating capacity	16 MW
Welding seams total	2,500
Pipe length total	1,500 m
Execution period	Spring 2016 to summer 2018

Challenges

- System remains in operation in case of disruptions and maintenance - critical functions are set up redundantly
- Plant was stowed after complete construction in the workshop in nearly 30 sea containers and shipped to Nigeria



Location:
Benin City, Nigeria

● Execution by STREICHER