

CFPP in Stade (STD), Germany

Cooling water system for 800 MW coal-fired power plant ($Q \approx 28.4 \text{ m}^3/\text{s}$)

Year: 2006 - 2010

Owner: Gaz de France Suez Energie Deutschland (GSED)

Client: Fichtner GmbH & Co. KG Stuttgart

Services:

- Conceptual design of cooling water system (intake and discharge structures including piping)
- Conceptual design of coal unloading jetty (for 100,000 DWT)
- Integration of intake and discharge structures of cooling water system into coal unloading jetty
- Elaboration of permit documents
- Design of fish protection concept and fish return system
- Special investigations regarding fish friendly cooling water withdrawal
- Supervision of the thermal recirculation study
- Hydrodynamic investigations
- Hydraulic steady state and transient analysis of the cooling water system (water hammer analysis)
- Design and tendering of the cooling water pipes, - pumps and – screening system

