



CCPP THESSALONIKI

GREECE

The combined cycle power plant Thessaloniki generates 400 MW of electricity with a GE gas turbine (260 MW), a CMI boiler and a FRANCO TOSI steam turbine (140 MW). The environmentally friendly power plant in the industrial area of Thessaloniki emits 25-30% less CO₂ than a coal fired power plant, thereby contributing to the reduction of CO₂ emission of Greece.

convex were responsible for the technical and programme coordination and monitored the civil design on behalf of VA TECH Hydro. In addition, various civil designs were carried out, e.g. the static and dynamic analysis of the steam turbine foundation, the earthquake-resistant design of the cooling water intake structures under consideration of soil liquefaction, as well as the detail design of the secondary steelwork.

Client:

Energiaki Thessalonikis S.A., Greece

General contractor:

VA TECH Hydro, Austria

Structural steel / concrete / reinforcement:

943 to / 24.230 m³ / 2.720 to

Overall costs:

€ 190 mill.

Construction costs:

€ 18 mill.

Completion:

January 2006



–
Photos:
T. Uzunoglu