COMBINED CYCLE POWER PLANT 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 CO_2 than a coal fired power plant, thereby contributing to the reduction of CO_2 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:
943 to

concrete:
24.230 m3
reinforcing steel:
2.720 to
overall costs:
€ 190 mill.
construction costs:
€ 18 mill.
completion:
January 2006

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photos:
T. Uzunoğlu

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