

HYDRO POWER PLANT BORCKA

Facts

City/Country
Borcka / Turkey

Client
Devlet Su Isleri, Ankara, Ankara

Contract Value
€31,00 Mio.

Construction Period
1/1999 - 1/2006 (84 months)

Project Description

The Borcka Dam and the hydro-electric power plant is located on the Coruh River, in the Lower Coruh Basin.

The works included underground works (galleries and tunnels), cut off wall, drilling as well as grouting.

The dam consists of an earth embankment dam with an impervious clay core on the right bank of the river and concrete structures on the left bank area, integrating the spillway and intake structure to the powerhouse. The plant has two power blocks and a transfer block. There are two vertical shaft Francis type turbines installed with the capacity of 150 MW each, having a total capacity of 300 MW.

PROJECT DATA:

Earth dam with impervious core	
Dam height	86 m
Dam crest length	728 m
Tunnels & galleries	6,075 m
Cut off wall	11,500 m ²
Drilling and grouting	63,500 m
Reservoir total storage capacity	419 Mio m ³
Annual energy generation	1,039 GWh
Installed capacity	300 MW
Total volume of excavation	11,000,000 m ³
Total volume of concrete	500,000 m ³
Total volume of fill	8,000,000 m ³

