

CONSULTANTS FOR THE REINFORCEMENT WORKS OF THE POTABLE WATER SUPPLY SYSTEM OF THE GREATER AREA OF ATHENS

Country

GREECE

Location

Greater area of Athens

Client

Ministry of
Environment, Planning
and Public Works

Financing

EU Cohesion Fund /
Public Investment
Programme of Greece

Project Cost

176,000,000 EUR

Overall consulting services

1,441,000 EUR

Services of ENB

562,000 EUR

Project Duration

1991 - 10/1995

Associated Firms

Hydrosistima (GR),
DENCO (GR),
TEKEM (GR),
GERSAR-SCP (FR),
EDF-CNEH (FR).



Project Description

Management of the water resources on the rivers basins Evinos and Viotikos Kifissos for the reinforcement of the potable water supply system for Athens greater area and the irrigation of the Viotikos Kifissos valley.

The total water requirements for Athens greater area (about 4 million inhabitants) were mainly met by the existing aqueducts of the Mornos artificial reservoir (180 km aqueduct, 800 m³ capacity reservoir) and of the natural Yliki lake.

Reinforcement works to supplement the existing Mornos aqueduct with 300 million m³/year of water for the water supply of Athens, included:

- Water transfer from Evinos river to Mornos river (in the existing reservoir) : a) New reservoir at Evinos River, earth dam, h:124 m, capacity : 130 million m³, b) Transfer pressure tunnel of a length of 30 km, diameter : 3.60 m, discharge : 21 m³/sec and
- The utilisation of the Mavroneri springs and the underground aquifers of the Viotikos Kifissos valley located upstream of Yliki lake (85 large diameter borings, intake works at Mavroneri springs, pumping stations, force mains, reservoirs etc.).

Services

- Planning / evaluation of preparatory works
- Supervision of geological, hydrogeological and geotechnical investigations
- Review of final designs and construction drawings
- Evaluation of technical offers for design-construct works
- Technical assistance during construction of the project