

Port Said thermal power plant

Water intake and outfall



Country

Egypt

Client

EDF-CNET International

Date

2000-2004

Cost of works

€80m

Sogreah's services

- Design Services
- Assistance to the Owner with the works

Description / Particularities

- Water intake and outfall for the new thermal power plant at Port Said;
- The plant, with an installed capacity of 340 MW, is sited at the outlet from the Suez Canal into the Mediterranean Sea;
- Maximum pumped discharge: 26 m³/s;
- Considerable longshore drift, which must not be blocked by the structures;
- Island-type water intake made of sheet-pile gabions and buried feeder culverts;
- Culvert discharge structure and diffuser on the sea bed.

Detailed services

- Determination of wave conditions and longshore drift;
- Optimisation of structure layout;
- Impact assessment concerning the coastal environment;
- Assistance to the client in obtaining authorisations;
- 2D and 3D scale models for sizing the island water intake;
- Detailed design of the head race;
- Detailed design of the interface structures between the pipe and intake and outfall channels;
- Technical specifications for monitoring and maintenance operations;
- Technical assistance to the client during construction.

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