

**Country**

Egypt

Client

EDF-CNET International

Date

2000-2003

Cost of works

€50m

Sogreah's services

▸ Design Services

Description / Particularities

- Water intake and outfall for the new thermal power plant at Suez;
- The plant, with an installed capacity of 340 MW, is sited at the outlet from the Suez Canal into the Red Sea;
- Maximum pumped discharge: 26 m³/s;
- Surface water intake (in a basin) and outfall (in a channel);
- Intake and outfall structures contiguous, protected by two 800 m long offshore embankments.

Detailed services

- Determination of wave conditions and longshore drift;
- Optimisation of structure layout;
- Hydraulic design of the intake structure to avoid any risk of eddies;
- Detailed design of the breakwaters, embankments and canals;
- Detailed design of the sheet-pile transition structure with interior pipes;
- Detailed design of the structure connecting the head race with the pumping station;
- Technical specifications for monitoring and maintenance operations;
- Technical assistance to the Client during construction.