

CASE STUDY



Water/ Infrastructure Projects FAQOUS WATER TREATMENT PLANT AND NETWORK

Country
Egypt

Dates
2009 till 2010

Overall Project Value
38.545.400 USD

Owner
NOPWASD

ENOIA's Consulting Value
192.727 USD



In 2009, Arab Contractors Company awarded to ENOIA the project for the design of the expansion of Faqous water plant and network in Sharqia Governorate, the 3rd most populated governorate of Egypt.

The project included the topographic survey and all the necessary designs (hydraulic, mechanic, electric, architectural and structural) needed to increase the plant capacity from 1200 L/Sec to 2400 L/Sec, the transmission/distribution pipelines (a total of 300 km with Diam. 300 mm to 1200 mm) and 4 elevated tanks with capacities 1000 m³ ~ 3000 m³.

Scope of Services

ENOIA was appointed as the Engineering Consultant for the project of Faqous water treatment plant and network and provided the following services:

- Data collection and analysis;
- Preparation of topographic survey and soil investigation reports;
- Environmental Impact Assessment;
- Preparation of Master Plan;
- Development of the hydraulic study;
- Development of the calculation sheets for hydraulic, electrical, mechanical and civil works;
- Preparation of Conceptual Design and Detailed Design for the WTP, water mains, distribution networks and all other units such as raw water intake, ground tanks, elevated tanks etc.;
- Development of construction and procurement plans
- Preparation of Feasibility Study for distribution networks with comparison of different alternatives solutions;
- Support during the appraisal of the subcontractors' offers for electromechanical works;
- Preparation of the As-Built drawings

