

CASE STUDY



Water/ Infrastructure Projects AL GABL AL ASFAR WASTEWATER TREATMENT PLANT - CONTRACT 19 PHASE 2 - PART 1

Country
Egypt

Dates
2013 till 2018

Overall Project Value
43.806.450 USD

Owner
CAPW

ENOIA's Consulting Value
947.370 USD



ENOIA was awarded by the Construction Authority for Potable Water & Wastewater (CAPW) to supervise and monitor the operation and maintenance works for Al Gabl Al Asfar wastewater treatment plant Contract 19 serving the metropolitan area of Cairo: with a total treatment capacity of 500,000 m³/day, this plant represents the largest wastewater treatment facility over the world. With a 2,800,000m³ nominal daily capacity, the project provides a complete treatment of the organic pollution of the collected sewage, along with a comprehensive sludge treatment line which includes anaerobic digestion and biogas production (enabling 60% power supply autonomy for the plant operation).

Scope of Services

ENOIA was appointed as the Engineering Consultant for the following services:

- Operation and Maintenance supervision of all components of the station as per the Owner's standards and specifications;
- Review of the quality and quantity of inflow and outflow, as well as the sludge quality vs. specifications;

- Daily supervision of the operation procedures, recording the rates and providing observations and recommendations to the Owner;
- Supervising the laboratory tests stipulated in the operation and maintenance contract, whether carried out in the plant or in external labs;
- Supervise the distribution of electric loads in the plant to achieve full utilization of the biogas produced through anaerobic digestion;
- Supervise the storage and management of spare parts and consumables;
- Supervise and assess the implementation of the Quality Control procedures for all works and the internal Auditing procedures in accordance with the of ISO 9001 requirements;
- Supervise and monitor the implementation of HSE procedures by the operator in accordance with the recommendations of the relevant Governmental Agencies;
- Supervise and monitor the performance of the operator towards the obligations of Civil Defense Department, including the firefighting system, according to the instructions from Civil Defense;
- Assess the training programs provided by the Operator for approval by the Owner and supervision of their implementation

