

Alexandria East Wastewater Treatment Plant

Client

Arab Contractors (Osman Ahmed Osman & Co.)

Scope of Work

Detailed Design
Shop Drawings

Location

Alexandria, Egypt

Types of Activities

Civil
Electrical
HVAC
Mechanical
Roads
Structural

With a total capacity of 800,000 m³/day, the plant is considered one of the largest sewage treatment plants in Alexandria and serves around 4 million people. It is a huge and pioneering project with respect to generating electric power from solid waste; where the resulting sludge is digested to produce methane gas that is used to generate electric power, thus improving the environment and reducing emissions & energy use. The generated electricity covers about 60% of the plant's energy consumption.

The project comprises two sludge mixing and transfer tanks (125 m³ each), gas holders (5,000 m³), four-floor sludge digestion building (footprint area of 380 m² and built-up area of 1,480 m²), digester tank (16,000 m³), digested sludge storage tank (2 x 1,250 m³), waste gas burner, biogas treatment unit, boilers building, and a powerhouse.

