

# Farafra Diesel Power Station

## Client

Egyptian Maintenance Company (EMC)

## Scope of Work

Preliminary design  
Detailed design

## Location

Farafra, Egypt

## Types of Activities

Architectural  
Civil  
Communications & security systems  
Electrical  
Landscape  
Mechanical  
Structural  
Roads

The 4 × 4 MW diesel power station is located in Farafra Oasis near Farafra-Wahaat Highway. On a plot area of 62,500 m<sup>2</sup>, the project comprises the following buildings:

- Powerhouse building (footprint of 760 m<sup>2</sup>): ground floor (switchgear & main control center) and mezzanine (control room, battery room, offices, and toilets)
- Transformers building (footprint of 168 m<sup>2</sup>): four transformers surrounded by a chain-link enclosure with four separate chain-link gates; the transformers are separated by reinforced concrete firewalls, and the building is covered with corrugated steel sheets
- Auxiliary transformers building (footprint of 60 m<sup>2</sup>): two auxiliary transformers surrounded by a chain-link enclosure with two separate gates; the building is covered with corrugated steel sheets
- Workshop & storage building (footprint of 174 m<sup>2</sup>): enclosed workshop & store, as well as staff changing rooms with lockers and toilets
- Staff housing building (footprint of 250 m<sup>2</sup>): ground floor and three typical floors; each floor consists of two apartments, each with a living room, two bedrooms, a kitchen, and a bathroom
- Guardhouse (footprint of 25 m<sup>2</sup>): office, bedroom, and toilet
- Pump room, fire pump room, water treatment room, water tank, and valve room located adjacent to the tank farm
- Open storage (1,000 m<sup>2</sup>) shaded with corrugated steel sheets
- Perimeter fence (1,000 meters long) with four guard towers at the corners

