

# Damietta Gas Turbine Generating Plant

## Client

Kharafi National for Mechanical and Electrical Works

## Scope of Work

Concept design  
Schematic design  
Design development  
Detailed design  
Shop drawings

## Location

Damietta, Egypt

## Types of Activities

Architecture  
Communications & security systems  
Electrical  
Infrastructure  
HVAC  
Landscape  
Mechanical  
Piping  
Roads  
Structural

Kharafi National (KN) was awarded the Engineering, Procurement and Construction (EPC) contract of Egypt Damietta Gas Turbine Generating Plant (GTGP). ECG was invited by KN to provide the engineering design services in support to their EPC contract.

The first gas turbine unit started commercial operation on July, 2011 for Damietta GTGP. Subsequently, ECG set its fast track methodology to fully complete the design services in a period satisfying KN proposed schedule requirements.

The new plant has four new gas turbines with a total rated capacity of 500 MW using 4\*125 MW gas turbines.

Understanding the importance, sensitivity and urgency for implementing the plant within the time constrain being a national "on spot" project, ECG quickly set a task force from its senior staff to plan and set the project

staffing requirements and the immediate mobilization of task forces, fast-track quality control measures, and packaging of deliverables which were tailored to meet KN milestones, enabled the quick start of construction and allowed for a continuous flow of KN construction execution scheme.

ECG Scope of Services covers the following:

- Package 1: Enabling work
- Package 2: Foundation package
- Package 3: Tank farm design
- Package 4: Auxiliary systems (service water system, compressed air system, solar fuel system, fire fighting system, GIS substation, control s/s, LV transformer, control building, etc)
- Package 5: Infrastructure networks
- Package 6: Ancillary buildings



Damietta Gas Turbine Generating Plant

