

Liquefied Natural Gas

Customer: BP

Services Provided

- Technical and project management services

Benefits to Customer

- A series of comprehensive and objective project evolutions and checking of licensor information
- Co-ordination of activities between Egypt and London operations
- Use of high quality engineering capability on a call-off basis as required and the support of the full resources of Costain as needed

Background

The client was planning a 4.5mm tpa base load LNG facility to be located at Damietta Port on the Mediterranean coast, with the potential for a second facility.

Project Description

Costain provided technical and project management services to the client's project team, located in the UK, including:

- Conceptual design studies for acid gas removal and gas pre-treatment including carbon dioxide sequestration issues
- Completion of a project statement of requirements for prequalification of the FEED contractor
- Evaluation of technical options including air versus seawater for cooling duties, power generation options, integration with proposed NGL extraction plant and benchmarking with other base load facilities.
- Definition of LNG storage
- Engineering studies including jetty design and layout, overall plant firewater requirements, safety and environmental assessments and selection of project specifications
- Planning and schedule assessment
- Invitation to tender document preparation for FEED contractor

Costain also co-ordinated the technical interfaces at Damietta between the LNG project and the adjoining propane storage facilities.