

ELEFSIS REFINERY UPGRADING PROJECT

Hellenic Petroleum S.A.
Elefsis - Greece



**COMPLETION
DATE 2007**

PROJECT DESCRIPTION

Front-End-Engineering-Design (FEED phase) for:

- New Vacuum Distillation,
- Flexicoking,
- Hydrogen Plant
- Hydrocracking units
- and associated utilities and offsites.

The upgrading of the refinery was to be designed according to a new environmental philosophy including:

- Project guidelines definition to comply with local and EU environmental rules
- Analysis of applicable BAT for Refining Processes, Air & Wastewater treatment facilities, Product storage & handling
- Industrial Cooling System
- Existing WWTP upgrading and new WWTP design

FOSTER WHEELER ITALIANA SCOPE OF WORK

FWI scope of work includes:

- BAT (Best Available Techniques) compliance Audit:
 - Review of BAT application to the project
- Consultancy services for the project permitting:
 - Environmental Impact Study
 - Liquid Effluent Disposal Study
- Specialistic studies:
 - New Large Combustion Plants stack height definition supported by air dispersion model outcomes
 - Air emission study
 - Noise impact study
 - Fugitive emissions of VOC compound from new units and storage tanks