



**Preem Petroleum AB  
Sweden**

Developed an investment road map for upgrading fuel oil to higher-value products such as gasoline, diesel or power.

**TAKREER  
UAE**

Feasibility study for new refinery. At existing Ruwais refinery, studies for a new visbreaker, increased gasoline production and for aromatics production.

**KNPC  
Kuwait**

Detailed tankage and hydraulic study, assessing adequacy of existing tank farms at all three KNPC refineries for operations through 2010, and developing an optimized solution.

**KPRL  
Kenya**

Comprehensive refinery upgrade configuration analysis, including in-depth review of the project's technical and economic viability. Feasibility study for import of refined petroleum products.

**IEA GHG**

IEA and the Carbon Capture Program commissioned a number of techno/economic studies to look at pre- and post-combustion CO<sub>2</sub> capture for power generation from residual fuels and coal.

**Saudi Aramco  
Saudi Arabia**

Feasibility study followed by FEED and preparation of LSTK bid packages for the integration of a grassroots petrochemical complex and major expansion of the existing refinery.

**Confidential Client  
Far East**

Due diligence investigation of a refinery on behalf of potential buyer seeking assurance there were no impediments to future operational and business integrity.

**Tatneft  
Tatarstan**

Study followed by FEED for a grassroots refinery and petrochemical complex, including definition of scope and configuration for all new process units.

**Confidential Client  
South East Asia**

Study into processing residues from a number of refineries to produce higher-value fuels and power. Options included delayed coking, gasification and circulating fluidized-bed boilers.

**Hellenic Petroleum  
Greece**

Configuration study, FEED and licensor evaluation for a major atmospheric residue upgrading project.



the right people with a  
'can do' attitude and the  
commitment to deliver

Refinery  
Consultancy Services  
Bright ideas....real solutions

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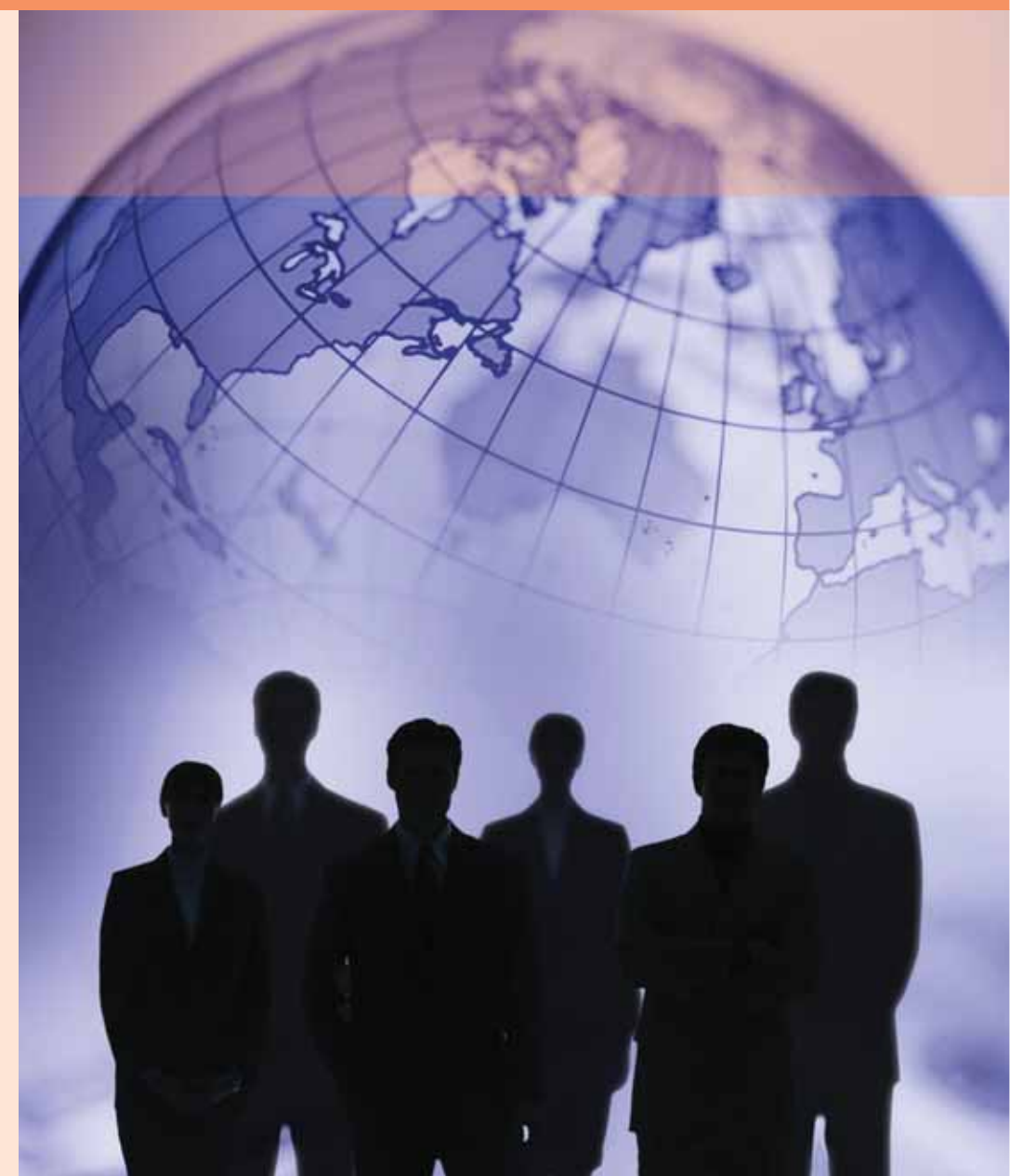
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HIGHLIGHTS

WORLD-CLASS PROJECTS

# Foster Wheeler innovative and practical



*"We are pleased to have Foster Wheeler working with us again at Ruwais, to assist us in mapping out the future direction of our facilities. The new facilities will further enhance TAKREER's competitive position in the marketplace."*

Mansoor Al-Mehairbi  
Business Support Division  
Manager, TAKREER



## Services and consultancy

We offer expertise in:

- Market analysis in association with market consultants
- Master/investment planning for refining and petrochemical complexes, revamps, upgrades and grassroots facilities
  - Linear programming (LP)
  - Configuration optimization
  - Objective technology selection and evaluation
  - Licensor evaluation and selection
  - Site selection
- Conceptual plot plans
- Environmental planning and permitting
- Due diligence/plant efficiency/maintenance assessment
- Energy efficiency
- Hydrogen management and optimization

We work with client senior management and planning groups, and with financial institutions, to ensure investment plans are robust.

## Why choose our consultancy services?

We provide our clients with innovative yet practical solutions that optimize design and operation to enhance profitability and to maximize the lifetime value of your assets.

Our ability to feed back genuine design and construction experience into the conceptual study ensures:

- rapid evaluation of scenarios
- use of real in-house estimating data
- constructable, practical solutions
- identification of key project challenges as early as possible
- development of achievable schedules

And we have:

- state-of-the-art process synthesis tools
- extensive knowledge of all refining technologies and licensors

## Our people

Our people are experienced, flexible, focused and committed to working closely with our clients. Our dedicated consultancy teams have built successful long-term relationships with many clients world-wide, resulting in significant repeat business.

We work with our clients to arrive at a total business solution to meet today's challenges.

**We have real project execution experience that adds value to your business.**

## Global expertise

Our consultancy services are supported by Foster Wheeler's global expertise. We have the flexibility and the strength to deliver large or small projects anywhere in the world, from feasibility studies to full FEED and EPC execution.

Wherever you are in the world, we can help.

The road map to success

