

Refinery Studies

Integrated Solution – Global Reach



What We Do

Petroleum Development Consultants Limited (PDC) provides advice to the upstream and downstream oil and gas industry. Based in our offices in London, our teams of engineers and analysts solve problems and help refinery companies across the globe succeed with the challenges of the modern industry.

PDC has conducted a variety of refinery studies across the world to allow clients to understand the dynamics of a market for the refining markets and petrochemical markets.

Our studies have allowed clients to expand operations into new markets to build, upgrade and expand refineries and terminals.

Past Experience

- **Georgia** - Study of oil and oil product exports from refineries in the Caspian through Poti Port, Georgia on behalf of the EBRD
- **Russia** – Oil market study for the export of oil products from Russia through Estonia as part of a due diligence exercise for purchasing the assets
- **Sierra Leone** - Market study and financial model for a proposed refinery. The study comprehensively evaluated petroleum demand in West Africa, reviewing the potential crude supply and crude oil pricing. The financial evaluation of the refinery included calculating the refinery capital cost estimates, variable operation cost estimates and fixed operating costs estimates to evaluate the commerciality of the project.
- **Romania** - PDC led the development of the Business Plan for Petrom covering two refineries, exploration and production assets and service stations.
- **EU** – PDC led an investigation into compliance with the EU Air Pollution Directive of around 95 refineries that operated in the European Union before its expansion

- **Integrated Subsurface Studies**
 - Reserves Certification
- **Field Development Planning**
 - Project Management
 - Due Diligence
 - Process Engineering
 - Negotiations
 - Market Analysis
- **Government Advisory**
 - Expert Witness



Examples of Our Work:

Integrated Subsurface Studies

Argentina – G&G, reservoir engineering & engineering study for the redevelopment of a mature oil field.

PNG – Integrated team comprising G&G, reservoir engineering team to evaluate onshore gas field

Reserves Certification

Africa – Technical reserves report was composed for a billion barrel oilfield for the raising of funds from a consortium of banks

Africa – Technical reserves were prepared as part of a due diligence study for the acquisition of a gas field in Nigeria

Field Development Planning

Argentina – Prepared re-development plan for RepsolYPF for the Lunlunta-Carrizal field in production since 1950 concentrating on workovers and infill vertical and horizontal wells

Abu Dhabi – Carrying out a project for ADMA-OPCO developing field plans for two large offshore oil fields in production for thirty years. Field development plans to cover the next 35 years of production.

Romania – Leading development of three gas fields in northern Romania and carrying out gas sales negotiations

Project Management

Romania – Project managed the EPC of the gas processing facilities of the Bilca gas field

Due Diligence

Nigeria – Data room study for a major gas company to provide an independent overview of a gas asset

Romania – Advising Gazprom on acquisition of gas distribution company

Exploration & Production Policy

Kenya – Advising National Oil Company of Kenya on improvement of E & P policy and particularly addition of specific gas terms

Market Analysis

Egypt – Prepared study on the gas market for US independent oil company

Russia – A number of studies have been carried out including a market study of potential oil and oil production exports through Tallin, Estonia on behalf of the purchaser of Estonia Rail. Study of oil and oil product exports from the Caspian through Poti Port, Georgia on behalf of the EBRD

Regulation and Liberalisation

Russia – Assisting Ministry of Energy to develop scenarios for gas liberalisation on behalf of EU Delegation, Moscow

UK – Acted as technical advisor to the Office of Gas and Electricity Markets (Ofgem) as part of the Price Regulation 2002-7 of Transco the monopoly gas transmission and distribution operator

Expert Witness

PDC has provided expert witness services at a number of international courts including the Arbitration Courts in Stockholm, Copenhagen, Singapore and London.

Negotiations

Vietnam – Acted as advisor to PetroVietnam in the negotiation of gas contracts with BP to develop the offshore Nam Con Son gas fields leading to total investment of \$2.5 billion

Ireland – Supported the negotiation of a gas contract for offshore gas field with RWE Energy

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