

CASE STUDY

Pearl GTL

The world's largest source of GTL (gas-to-liquid) products

PROJECT INFORMATION

NAME

Pearl GTL Project

ESTIMATED INVESTMENT

\$19bn

LOCATION

Ras Laffan Industrial Area, Doha, Qatar

OWNERS

Qatar Petroleum and Shell

NATURE

GTL (Gas-To-Liquids)

OUTCOMES

Construction of a GTL plant capable of producing 3 billion barrels of oil over the project's lifetime

MAIN CONTRACTORS

KBR and JGC

ABOUT THE PROJECT

The Pearl GTL Plant is capable of producing 140,000 barrels of GTL product each day. The plant also produces 120,000 barrels per day of natural gas liquids and ethane.

Pearl produces and processes around 1.6 billion cubic feet a day of wellhead gas from the world's largest single non-associated gas field – the North Field – which stretches from Qatar's coast out into the Gulf.

The offshore scope includes 22 development wells, two unmanned wellhead platforms in about 30 metres of water and two 30-inch pipelines running about 60km to shore.

The onshore gas processing facilities treat the sour, rich wellhead gas to remove contaminants and further extract natural gas liquids: ethane for petrochemical processes, liquefied petroleum gas (LPG) for domestic heating and cooking and condensates as a feedstock for refineries.

Pearl's high-value, premium products including GTL gas oil, kerosene, naphtha, normal paraffin and base oils for lubricants are exported to markets around the globe.

NRL SUPPORT

NRL provided JGC with support during the construction and commissioning phase of this project against two key industry challenges - firstly, the many competing oil & gas projects across the GCC region at the time and secondly, the skills shortage within these sectors which made sourcing suitably qualified and experienced personnel a difficult task.

NRL responded to JGC's requirements by providing key personnel from diverse geographic locations on competitive rates on the specified mobilisation date.

The staff supplied by NRL demonstrated the key competencies required to work on the project and remained until the date of final completion. The majority of workers were then moved out to other JGC projects in different countries.

CASE STUDY

Yamal LNG

One of the most complex LNG projects ever undertaken

PROJECT INFORMATION

NAME

Yamal LNG Project

ESTIMATED INVESTMENT

\$27bn

LOCATION

Sabetta, Yamal Peninsula, Russia

OWNERS

Novatek, Total CNPC, Silk Road Fund

NATURE

Onshore Gas Field and Processing Plant

OUTCOMES

Construction of an LNG plant with a capacity of 16.5 MTPA

MAIN CONTRACTORS

YAMGAZ - a joint venture between Technip, JGC and Chiyoda Corporation

ABOUT THE PROJECT

Launched at the end of 2013, the Yamal LNG project is located above the Arctic Circle, a region which is ice-bound for 7-9 months of the year and the site is completely isolated from current infrastructure.

More than 200 wells will be drilled along with the creation of three liquefaction trains, each of which offers an annual capacity of 5.5 million metric tons. To ensure its stability, the plant will be supported by tens of thousands of piles driven some 20 meters into the permafrost, which is the first time this technique will be used on such a large scale.

Yamal LNG unlocks access to the vast gas resources of the Russian Arctic, while also opening a new LNG sea transport route to Asia using ice-class LNG carriers.

NRL SUPPORT

NRL has supported this project by supplying to 3 yards, (Penglai, Qidong & Qingdao - China), tasked with the fabrication of modules for the Sabetta-based processing plant. We supplied multi-national contractors, under a fully compliant in-country payroll and visa process, who were responsible for providing specialist support to the local teams.

Positions supplied

- Area Construction Managers
- Senior Civil / Structural Design Engineers
- Customs Clearance Co-ordinators
- Piping Engineers
- Commissioning Supervisors
- Planning Engineers
- Packaging Reservation & Logistic Leads
- Easy Plant Co-ordinators

We have also supplied the following skill sets to JV members for permanent positions based in Sabetta, Russia:

- Commissioning Managers
- Commissioning Supervisors

CASE STUDY

ERC Refinery

The new ERC Refinery forms an important part of Egypt's strategic plan to upgrade their petroleum infrastructure to become self-sufficient by 2023. The new complex will provide domestic products for 25 years, reducing Egypt's reliance on importing products.

PROJECT INFORMATION

NAME

ERC Refinery

COST

\$3.7bn

LOCATION

Mostorod, Cairo, Egypt

OWNERS

Egyptian & Arab private investors, Egyptian Public Institutions (IFC, DEG ad FMD), The Egyptian General Petroleum Corporation

NATURE

Oil Refinery

OUTCOMES

The refinery will produce approximately 3.5 million tons of transportation fuels (diesel, jet fuel and gasoline components) which will decrease Egypt's dependency on petroleum import

MAIN CONTRACTORS

GS Engineering & Construction (South Korea), Mitsui & CO. (Japan), PMC, Worley Parsons

OPERATIONS & MAINTENANCE CONTRACT

EPROM

ABOUT THE PROJECT

Utilising NRL's extensive knowledge of supporting major infrastructure projects, the International recruitment team worked in partnership with the refinery's project personnel to secure key roles to support the construction, start-up, and operation of the new refinery.

CLIENT FEEDBACK

"Throughout the complex start-up and operational phases of the ERC refinery project, NRL's recruitment team supplied highly skilled senior level managerial contractors to help ensure the project was completed successfully.

Across our two-and-a-half-year partnership, they fully understood our requirements and project timings to help us appoint key positions including technical managers and team leaders.

I really appreciate NRL's international team for their efforts and support in this mega project."

Nabil Affi
Project Director
ERC Refinery

CASE STUDY

Ismailia Tunnels

NRL have played a major part in an ongoing infrastructure development project in Egypt, supplying qualified workers for the construction of two tunnels under the Suez Canal.

PROJECT INFORMATION

NAME

Suez Canal Area Development Project

COST

€404m

LOCATION

Suez, Ismailia, Port Said - Egypt

OWNER

Egyptian Ministry of Defence, represented by the Engineering Authority of the Armed Forces (EAAF)

NATURE

Construction, Tunnelling

OUTCOMES

4.7km of excavated tunnel length, scheduled for delivery in 2018

MAIN CONTRACTORS

Petrojet (Egypt)
Concord (Egypt)

SUBCONTRACTORS

CMC (Italy)
Razel-Bec (France)

ABOUT THE PROJECT

The Ismailia Tunnels form part of the Egyptian Government's Suez Canal Area Development Project, which aims to increase the role of the Suez Canal region in international trading and to develop the three canal cities: Suez, Ismailia and Port Said.

The tunnels are being excavated by two HK Slurry Tunnel Boring Machines which measure 13 meters of diameter each. When complete, they will allow the creation of a new road between both sides of Ismailia City which will provide a significant economic boost to the region.

NRL SUPPORT

NRL have supplied a number of workers to Razel-Bec, equipped with the training and experience required to assist with the development of the tunnels and the operation of the equipment being used. Some of the roles we have provided include:

- Shift Boss
- Tunnel Boring Machine Engineer
- Tunnel Boring Machine Operator
- Tunnel Superintendent

CASE STUDY

Ras Ghareb

Ras Ghareb Wind Farm is a 262.5MW near-shore wind project near the Gulf of Suez. It is the first independent power producer project (IPP) in Egypt, providing career opportunities for local workers in this fast-growing renewable energy sector.

PROJECT INFORMATION

NAME

Ras Ghareb Wind Farm

COST

\$400m

LOCATION

Gulf of Suez, Egypt

OWNERS

New & Renewable Energy Authority (NREA)

NATURE

Renewable Energy Wind Farm

OUTCOMES

Construction of a new 262.5 MW onshore windfarm

DEVELOPERS

Ras Ghareb Wind Energy SAE was developed by ENGIE (France), Toyota Tsusho/Eurus (Japan) and Orascom Construction (Egypt) on a build-own-operate (BOO) model

ABOUT THE PROJECT

The development of Ras Ghareb Wind Farm is an important milestone in the Egyptian Government's ambitions to increase production of energy from renewables. Furthermore, the project supported regional economic growth and boosted local skills – successfully completed 6 weeks ahead of schedule.

To support the construction and production phases of this significant renewable energy project, NRL identified a number of local Egyptian workers to place in permanent roles to take charge of key responsibilities on-site.

CLIENT FEEDBACK

The Ras Ghareb wind farm project is strategically important to support Egypt's target to develop sustainable renewable energy sources. The project is the first Wind IPP in Egypt.

"During the project construction and operations mobilization phases, NRL provided valuable support for the recruitment of the company staff."

"Thanks to NRL's deep knowledge of the local Egyptian labour market, we successfully secured the recruitment of a number of key roles for the project, including Operations Managers, Civil Superintendents and Electrical Engineers."

"In my quality of CEO of RGWE, I have witnessed NRL's excellent responsiveness to our needs. The pre-selected candidates presented by NRL were all good candidates with all the required experience and qualifications. NRL further provided valuable advises in relation to local HR matters."

"In conclusion, we are glad to recommend NRL to any organisation looking for support with their overseas projects."

Miklós Almásy de Zsadány
Chief Executive Officer
Ras Ghareb Wind Energy SAE