

CASE STUDY: ENERGY SOLUTIONS

SUPPORTING EGYPT’S LARGEST OFFSHORE GAS DEVELOPMENT

Delivering hydraulic services for the Zohr field’s production modules under challenging site conditions.



CLIENT
Baker Hughes

YEAR
2019-2019

BUSINESS LINE
Energy Solutions

The Challenge

The Zohr gas field, located in Egypt’s Shorouk Block, is the largest gas discovery in the Mediterranean.

Baker Hughes required a partner to deliver hydraulic services on the region’s largest offshore production module.

The project demanded precision, speed, and adaptability in a high-pressure environment. EnerMech was tasked with executing complex fabrication and installation scopes in Alexandria, while also managing pre-engineering and equipment supply from the UK.

The challenge was to maintain quality and safety standards while adapting to evolving site conditions and tight timelines.

The Solution

EnerMech mobilised a 40-person team to deliver a full suite of hydraulic services, including fabrication, welding, pressure testing, and flushing to SAE 4059F standards.

Work was carried out on 10 HIPPS modules, 4 production manifolds, and 4 subsea distribution units. Our UK facility managed pre-engineering and material supply, ensuring seamless coordination between locations.

Despite challenging conditions, our team maintained flexibility and responsiveness, adapting the scope as needed.

Strong collaboration with Baker Hughes and multi-skilled support from both the UK and Egypt ensured 24/7 coverage and consistent delivery throughout the project lifecycle.

The Outcome

Our team completed the project to an exceptionally high standard, exceeding client expectations and securing additional scopes of work.

Over 2.8km of pipework was installed across 58,500 man-hours without a single lost time incident (LTI).

The project was both a technical and commercial success, demonstrating EnerMech’s ability to deliver under pressure. Dedicated points of contact and strong client collaboration ensured flexibility and efficiency throughout.

The Zohr project reinforced EnerMech’s reputation for safe, high-quality delivery in complex offshore environments.

We Delivered...

- Hydraulic fabrication, installation, and testing of 18 critical modules
- Pre-engineering and material supply from EnerMech’s Aberdeen facility
- Onsite execution in Alexandria with 40 skilled personnel
- Full FAT and flushing to SAE 4059F: 6B to 6F or better
- Seamless UK-Egypt coordination and 24/7 project support

>2.8km Pipework Installed

Delivered across 58,500 man-hours with no lost time incidents.

18 modules completed

Including HIPPS, PMs, and SDUs to exacting standards.