

CASE STUDY: ENERGY SOLUTIONS

MAXIMISING EFFICIENCY THROUGH
INTEGRATED SHUTDOWN SUPPORT

Delivering multi-discipline services to optimise uptime and reduce vendor complexity.



CLIENT
Petrofac

YEAR
2020

BUSINESS LINE
Energy Solutions

The Challenge

The FPF-1 floating production facility, located in the Greater Stella Area of the Central North Sea, required a comprehensive shutdown programme in 2020.

Petrofac needed a partner capable of delivering a wide range of services both onshore and offshore, while maintaining 24-hour operations and optimising POB (Persons on Board).

The challenge was to coordinate multiple scopes efficiently, reduce vendor interfaces, and ensure safe, timely execution across all shutdown activities.

The Solution

EnerMech provided a fully integrated service package covering process, industrial, and valve scopes.

Our multi-discipline team supported both onshore and offshore phases, delivering services such as PSV spares engineering, valve repairs and recertification, topside flushing, leak testing, bolt torquing, and on-site machining.

Early engagement in shutdown planning allowed EnerMech to align resources, equipment, and personnel effectively—ensuring seamless delivery and rapid response to evolving site needs.

The Outcome

The shutdown was completed safely, on time, and with significant efficiency gains.

By consolidating services under one vendor, EnerMech helped reduce POB, streamline communication, and maximise asset uptime.

Our proactive approach, combined with deep operational knowledge and flexibility, enabled Petrofac to meet shutdown objectives while minimising disruption.

The success of this project reinforced EnerMech’s value as a trusted shutdown partner in the North Sea.

We Delivered...

- 24-hour support across onshore and offshore shutdown phases
- PSV spares engineering, valve repairs, and recertification
- Flushing, purging, leak testing, and flange management
- On-site pipe cutting, machining, torquing, and tensioning
- Single-vendor solution that reduced complexity and improved efficiency

Integrated Service Delivery

Combined process, industrial, and valve scopes under one vendor for maximum efficiency.

POB Optimisation

Reduced personnel requirements through multi-skilled team deployment.

