

# EXTENDING ASSET LIFE THROUGH INTEGRATED ENGINEERING

Delivering a full crane overhaul and mobilisation strategy to support critical maintenance on the Goodwyn-A platform.



**CLIENT**  
Woodside Energy Limited

**YEAR**  
2018 - Present

**BUSINESS LINE**  
Lifting Solutions

## The Challenge

Woodside Energy required a reliable and cost-effective solution to replace the ageing East Crane on its Goodwyn-A (GWA) platform, an offshore facility exposed to harsh marine conditions and annual tropical cyclones.

The replacement crane, a second-hand Favelle Favco M1060D, needed to be fully refurbished, tested, and prepared for offshore mobilisation.

The challenge involved coordinating multiple disciplines, managing logistics, and ensuring the crane would be fully operational and compliant for future installation in a remote offshore environment.

## The Solution

EnerMech was engaged to deliver a complete refurbishment and mobilisation solution. The crane was transported to EnerMech's Henderson facility, where it underwent a full inspection, hydraulic system upgrade, lifetime extension, and factory acceptance testing (FAT).

The team also developed all Inspection and Test Plans (ITPs) and engineered the rigging, lifting frames, and transport logistics.

EnerMech's multi-disciplinary team, including NDT technicians, engineers, crane specialists, and hydraulic experts - worked collaboratively to complete the overhaul entirely in-house.

The crane is now stored and ready for mobilisation, with EnerMech also responsible for its future installation, commissioning, and load testing offshore.

## The Outcome

Our teams delivered a fully refurbished and compliant construction crane, ready for deployment to the GWA platform.

The in-house execution at Henderson provided cost and schedule efficiencies, while the team's prior experience with the crane model enabled accurate planning for offshore integration.

This project not only supports the safe replacement of the East Crane but also strengthens EnerMech's role as a trusted partner in long-term asset lifecycle management.

## We Delivered...

- Full inspection, overhaul, and FAT of Favelle Favco M1060D crane
- Hydraulic system upgrades and lifetime extension
- Engineering and supply of rigging, lifting frames, and transport logistics
- Development of ITPs and mobilisation strategy
- In-house delivery at EnerMech's Henderson facility with laydown storage

## In-House Overhaul

Crane fully refurbished, tested, and stored at EnerMech's Henderson facility for cost-effective delivery.

## Resolving Design Challenges

Engineering, hydraulics, NDT, and logistics delivered by a single integrated team.