

ASSET SUPPORT



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Projecting the Future

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Clough is a leading provider of asset support solutions, which completes our service across the entire life of facilities. We offer an engineering led service to enable the operation, maintenance and upgrade of existing upstream oil and gas infrastructure, both offshore and onshore, across the Australasian region.

Asset support for the oil and gas industry is delivered through our joint venture with AMEC. This successful partnership combines Clough's regional oil and gas experience and strong local resource base with AMEC's worldwide experience in integrated services provision and brownfield project execution.

Clough AMEC's capabilities include:

- Brownfield engineering
- Operations and maintenance
- Shutdowns and campaign management
- Commissioning
- Decommissioning

PROJECT EXPERIENCE

Woodside Offshore Maintenance Services Contract

Client: Woodside Energy Limited

Location: North West Shelf, Australia

Year: Current

Scope of work:

Offshore maintenance services for all Woodside offshore oil and gas assets. The contract involves the supply of maintenance and trades personnel. Typical assignments include:

- Campaign maintenance teams on Cossack Pioneer, Nganhurra, Northern Endeavour and North Rankin.
- Support for corrective maintenance/ breakdowns on all facilities.
- Shutdown preparation and support on Cossack Pioneer, Nganhurra and Northern Endeavour.



Cossack Pioneer FPSO

Bayu-Undan Operations and Maintenance

Client: ConocoPhillips Australia Pty Ltd

Location: Timor Sea

Year: Current

Scope of work:

Operations and maintenance services for the Bayu-Undan offshore facilities in the Timor Sea. The facilities consist of a floating storage and offloading facility and three fixed platforms: a remote wellhead platform, a compression, utilities and quarters platform and a drilling, production and processing platform.



Bayu-Undan Facility

Barrow Island Engineering Services Contract

Client: Chevron Australia Pty Ltd

Location: Barrow and Thevenard Islands, Western Australia

Year: Current

Scope of work:

This engineering services contract involves project management, detail engineering, construction and fabrication management, maintenance support, feasibility studies, concept development and procurement and supply chain integration for Chevron's oil production facilities at Barrow and Thevenard Islands.



Barrow Island Engineering Services Contract

Maersk Ngujima-Yin

Client: Maersk Contractors

Location: Vincent Field, Western Australia

Year: Current

Scope of work:

This FPSO vessel is operated by Maersk Australia Pty Ltd and is located on the Vincent oil field owned by the North West Shelf Joint Venture. The scope of work includes engineering, fabrication, offshore installation and maintenance services.



Ngujima-Yin FPSO

Clough Services

For complex projects, sometimes grand designs and the best made plans don't work in reality. That's why Clough offers an integrated Engineering, Procurement and Construction (EPC) service based on the concept of 'Constructability.'

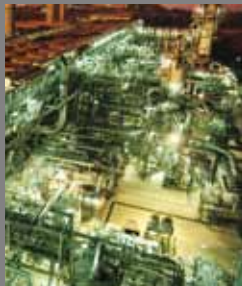
Constructability is how our EPC capabilities come together in a project management technique we've evolved over our 90-year history. Constructability underpins our EPC solutions to ensure all engineering designs are buildable.

Clough's multi-disciplinary, engineering-led EPC services range from concept and front-end engineering design, detailed design, procurement, construction, installation, commissioning and operations and maintenance support for onshore and offshore oil and gas projects.



Domestic Gas

- Conceptual and Front End Engineering Design
- EPC/EPCM for upstream gas processing facilities and onshore pipelines
- Modularisation, fabrication and construction



LNG

- Conceptual and Front End Engineering Design
- Detailed design for offplot facilities
- Modularisation and fabrication
- EPCM or EPC delivery
- Project infrastructure development including onshore pipelines, compression and nodal stations
- Marine infrastructure including jetties



Platforms & Pipelines

- Conceptual, Front End Engineering and Detailed Design
- Installation of conventional platforms and pipelines
- Self-installing platforms
- Installation of topsides using the float-over method
- Process topside, jacket and wellhead platform fabrication



SURF

- Conceptual, Front End Engineering and Detailed Design
- Full subsea field installations including:
 - Umbilicals, risers and flowlines
 - Subsea structures, manifolds, riser-bases, protection structures
 - Spools and tie-ins
 - FPSO or TLP moorings
- Inspection, Repair and Maintenance



Asset Support

- Onshore and offshore asset support including:
- Brownfield engineering
 - Operations and maintenance
 - Shutdowns and campaign management
 - Commissioning
 - Decommissioning