

ROYAL DUTCH SHELL AUSTRALIA PRELUDE FLNG FACILITY



Prelude FLNG is a liquid-rich gas field located in North-West Australia, 475 km North-North East of Broome, in approximately 240m water depth. The field subsea development includes 7 subsea wells, 4 production risers, and the world's largest umbilical. EnerMech secured the contract to provide services and equipment to undertake the pre-commissioning works on the risers, electro-hydraulic umbilical (EHU), electrical steel flying lead (ESFL), and electrical flying lead (EFL).

Client: Technip Australia Pty Limited

Year: 2016 - 2017

Product/Service: Integrated services

Scope of Work

EnerMech performed the Multi Service Vessel (MSV) Scope which comprised of the following:

Design and supply of Riser Pig Receivers (2 off); Flexible Risers (4 off) flooding during transit from Singapore to Prelude FLNG location; ESFL & EHU monitoring during installation, Chemical: 18 off 1" lines, 13 off 1/2" lines; Hydraulic: 13 off 1/2" lines; Electrical: 6 off Electric cores, Fibre Optic: 2 off cores. ESFL pre-laydown testing.

Project Delivery

EnerMech were able to respond at very short notice to assist with Umbilical repair work required in Singapore, documentation and equipment fast tracked.

Additional Turret work scopes awarded with short notice prior to execution (also long lead times on special custom made fittings).

Key Benefits

EnerMech were subcontracted to perform the subsea commissioning and throughout the engineering phase identified a gap between the subsea and topside scopes where the two did not connect.

As EnerMech Project team has the specialised knowledge of the subsea field in both Flowline and Umbilical systems, Shell requested The EnerMech team to commission the Well jumpers to assist with bringing on first gas to the Prelude Installation. Works successfully completed with no LTI's; additional contracts awarded with Shell including Hose Management, Hydraulics and Subsea Commissioning works.