

CASE STUDY: PRE-COMMISSIONING AND COMMISSIONING

INTEGRATED SPECIALIST SERVICES

Ichthys onshore LNG facility – streamlined solutions for seamless start-up



CLIENT

JKC Australia LNG Pty Ltd

YEAR

2017 - 2019

BUSINESS LINE

Infrastructure and Industrial Services

The Challenge

JKC Australia LNG Pty Ltd required a trusted partner to provide integrated pre-commissioning and commissioning specialist services for the Ichthys Onshore LNG Facility in Darwin, Australia. The project involved managing the construction and commissioning of approximately 2,500 systems, including electrical and instrumentation, and associated pipework systems. The client needed a partner capable of bundling multiple specialist services to ensure the safe start-up and operation of the facility, while also reducing supplier interfaces, cost, and complexity.

The Solution

EnerMech was chosen as the contractor of choice, providing a comprehensive range of services to meet the client's needs. The solutions included:

- **Integrated Pre-Comm and Commissioning Services:** Specialist services for 2,500 systems, including electrical, instrumentation, and pipework.
- **Multi-Skilled Workforce:** Reduced supplier interfaces and complexity, deploying over 700 personnel at peak times.
- **Environmental Management:** Treatment of over 25 million litres of chemical cleaning effluent, reducing waste disposal costs.
- **Extensive Project Management:** Delivered over 1.1 million work hours with meticulous planning and execution.

The Outcome

EnerMech successfully managed the construction and commissioning stages of the Ichthys Onshore LNG Facility, ensuring a safe and efficient start-up and operation. The integrated approach and multi-skilled workforce contributed to the project's success, reducing cost and complexity for the client. The environmental management efforts were recognized with multiple awards, highlighting EnerMech's commitment to sustainability.

Reduction in supplier interfaces

Reduced complexity through single point of contact and fewer contractors on site creating project efficiencies in terms of cost, headcount and schedule.

Environmental excellence

Awarded four Emerald awards for outstanding contributions to environmental management

Scalable workforce

Deployed more than **700** multi-skilled specialist personnel at peak times to ensure comprehensive project coverage.

Extensive project management

Delivered over 1.1 million work hours, ensuring meticulous planning and execution.

