

ICHTHYS LNG ONSHORE FACILITIES – COMBINED CYCLE POWER PLANT



The Ichthys LNG onshore facility, located near Darwin in the Northern Territory, Australia is one of the most significant onshore LNG facilities in the world. Initially contracted for a small industrial services scope, JKC soon saw the value in EnerMech's integrated services solution and very soon we were in some way involved in most of the construction and commissioning activities.

Client: JKC

Year: June 2017 - May 2019

Product/Service:
Electrical and Instrumentation services

Scope of work

- Electrical HV and LV Commissioning of 5 Gas Turbine Generators and 3 Steam Turbine Generators
- Construction, Testing and Commissioning of 132kv 33kv 6.6kv Transformers including but not limited to:
 - Stability and Soak Testing
 - Sync Testing and Commissioning
 - Tap Changer Installation and oil filtering
 - PF and DDF testing of existing transformers and fault finding
- EEHA Inspections and rectification works on all Ex field and instrument equipment and Dossier collaboration.
- HV Switching and Operations Assistance
- Start-Up Operations Assistance
- HV and LV relay Installation and Commissioning
- ATS and MTS installation, configuration and commissioning
- Supplying Operational support and resources to the client
- UPS installation, testing, commissioning and fault finding
- Light and small power commissioning
- HV cabling and bus bar installation and commissioning up to 132kv
- Electrical construction, QA and Commissioning balance of plant.
- Installation, Calibration and Commissioning of Instrumentation
- Installation and Commissioning of SCADA and control systems

Project Delivery

The Ichthys Project highlights EnerMech's unrivalled ability to provide a fully integrated services solution to meet the engineering and construction management needs.

EnerMech's invaluable experience gained on other significant LNG projects along with our flexible and dependable approach to supporting JKC's goals proved our ability to add value. Soon we grew to one of the tier one contractors with upwards of 700 personnel and activities that spanned over four years.

Key Benefits

During the four years on site, we were awarded four Emerald awards in recognition of outstanding contributions to environmental management

More than 700 personnel at peak times to ensure all aspects of the project were covered