

# Queensland Curtis Liquefied Natural Gas Project



SYNERTEC



## PROJECT SUMMARY

Queensland Curtis LNG (QCLNG) is a major producer of natural gas for the Australian domestic market and for export as LNG via a two-train LNG liquefaction plant on Curtis Island near Gladstone in Queensland.

A major global player in the oil and gas industry, Bechtel Oil and Gas selected Synertec as their supplier for the packaged analyser systems for the QCLNG facility.

### CLIENT

Bechtel Oil and Gas

### LOCATION

Queensland, Australia

### CORE CAPABILITIES

- Specialist multi-discipline engineering including instrumentation, electrical, process, mechanical, and automation engineering
- Metering, control, and online measurement systems
- Integrated solution utilising various products from a range of manufacturers
- Project management
- Construction management
- Factory acceptance testing
- Site acceptance testing
- Commissioning
- Ongoing support and maintenance

### TECHNOLOGIES

- ABB Gas Chromatographs
- SpectraSensors
- Opta-Periph LNG sample probes

## THE CHALLENGE

Bechtel Oil and Gas required fully automated, online analyser systems to provide critical in-process measurement and control, quality control, and quality billing functionality.

The analyser package was installed at the liquefaction plant at QCLNG, supporting a production capacity of 8.5 million tonnes of LNG per year.

## SYNERTEC'S SCOPE

The project scope involved the design, construction, factory acceptance testing, and site commissioning of eight analyser houses and five analyser racks.

The process design included 45 analysers, with the majority being ABB Process Gas Chromatographs and SpectraSensors Tunable Diode Laser (TDL) carbon dioxide and moisture analysers.

Synertec also designed and supplied Bechtel with:

- Sample probes, including Opta-Periph vaporiser probes
- Sampling control systems
- Breezeway construction for natural ventilation designed for installation in a Zone 2 Hazardous Area
- Ongoing support for parts and maintenance