



## CLIENT

Bechtel Oil and Gas

## LOCATIONS

Queensland, Australia

## CORE CAPABILITIES

- Multi-disciplined engineering – instrumentation, electrical, process, mechanical and automation engineering
- Metering, control and online measurement systems
- Integrated solution which supported numerous products from numerous manufacturers
- Project and Construction management
- Factory Acceptance Testing
- Site Acceptance Testing and Commissioning
- On-going support and maintenance

## TECHNOLOGIES

- ABB GCs
- SpectraSensors
- Opta Periph LNG sample probes

## PROJECT SUMMARY

Queensland Curtis LNG (QCLNG) was a priority project of QCG, a BG Business Group, to develop Queensland coal seam gas for the Australian and international market. Synertec was engaged by 7BBechtel Oil and Gas to provide a packaged analyser system

## THE CHALLENGE

7BBechtel Oil and Gas required fully automated, on-line analyser systems to provide critical in-process measurement and control, quality control and quality billing functionality.

The package was for installation on liquefaction plant on Curtis Island, near Gladstone, QLD, and needed to support and initial production capacity of 8.5 million tonnes of LNG a year.

## SYNERTEC'S SOLUTION

The project scope involved the design, construction, factory acceptance testing and site commissioning of a total of 8 analyser houses and 5 analyser racks.

The process design included 45 analysers, with majority being ABB Process Gas Chromatographs, SpectraSensors TDL (Tunable Diode Laser) CO<sub>2</sub> and Moisture Analysers.

Synertec also designed and supplied Bechtel with:

- Sample probes, including the 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