

# CASE STUDY

## FORTESCUE SOLOMON POWER STATION

### PROJECT PROFILE

Solomon Power Station is a gas-fired operation providing power to Fortescue's Solomon Hub iron ore mining complex in the Pilbara region of WA.

This new Power Station now operates 14 gas fired reciprocating engines with a combined maximum install capacity of 165MW, and an average throughput of the facility being approximately 150MW.

In 2020 Pacific Energy subsidiary Contract Power Australia were awarded the EPC contract to build a new substantial low-emissions gas-fueled power station next to the existing Solomon Power Station, replacing the need for 221MW power at Iron Bridge and thereby reducing carbon emissions by almost 50%.

### PRODUCTS HANDLED

- Rolls Royce Gas Generators

### SCOPE OF WORK

The project scope involved the installation of 14 Rolls Royce Bergen (RRB) B36:45 gas generators supplied by Penske Australia.

Proven in harsh operating environments such as WA's Pilbara region, these RRB B36:45 generators are reliable, low-emission, medium speed units with market-leading fuel efficiency, will deliver low-cost clean energy to support Fortescue's growing penetration of renewable energy in the Pilbara Energy Connect program.



### OUR INVOLVEMENT

SGC Australia were engaged to support the construction and commissioning phases of this project, through the provision of onsite electrical and mechanical Supervision and Labour, over a 12-month period.

Our involvement included:

- All aspects of electrical and mechanical equipment install, testing, verification and commissioning, punch listing, modification and remediation works
- 60-man construction team (Supervisors, Electrical Technicians, Mech Fitters, Riggers, BMW, Operators and Peggy's)
- 25-man commissioning team (Supervisors, Mechanical and Electrical Technicians, Engineers, Commissioning Leads, QA/QC personnel)

### SERVICES PROVIDED

- Provision of Electrical and mechanical labour during the construction phase
- Provision of a Standalone electrical and mechanical team to complete the commissioning phase