

Roy Hill, Western Australia

CUSTOMER	UGL Pty Limited
LOCATION	Pilbara, Western Australia
DESCRIPTION	Supply, test, deliver, install and pre-commission diesel generator sets for the Roy Hill mine
OPERATIONAL DATE	2014



Located in Western Australia's Pilbara region, Roy Hill is a low phosphorus Marra Mamba iron ore deposit with mining, rail and port operations.

Penske Power Systems installed a substation with three continuous rated containerised diesel generators providing additional capacity to ensure there is a reliable power supply to the Roy Hill mine site.

CONFIGURATION

Three MTU generator sets were supplied, each within a container unit complete with all the necessary auxiliary equipment including a fuel system, cooling system, lubrication system, air intake / outlet system, exhaust system with mufflers, control system for starting the genset including synchronizing capability, hazard warnings and alarms, automatic and manual operation, as well as all the necessary pipe and cabling work.

The container units are also thermally and acoustically insulated and suitable for outdoor installation.

The containers are designed, and the equipment inside is arranged, in such a manner that each container unit is able to operate as a complete integrated set or in parallel to others.

All parts subject to wear or requiring adjustment during long term operation are easily accessible. The parts that are subject to wear are designed and fabricated to ensure ease of disassembly and re-installation.

FEATURES

Engineered by leading manufacturer MTU, the series 4000 engine offers impressively low fuel consumption and long service intervals. Featuring low emissions, low vibration properties, high stability and frequency, plus ease of maintenance, the series 4000 is ideal for extreme conditions and continuous operation.

With a compact footprint, containerised gensets are highly suitable to any installation.

MODEL SPECIFICATION

3 x MTU Onsite Energy gensets, model DP2610D5C, designed for:

- Application group 3B continuous operation
- Variable load < 75%
- Radiator design temperature* 50 °C
- Altitude 500m

Generator sets include:

- MTU 20V4000G63 engine
- Leroy Somer LSA 54 11kV alternators
- Noise level 85 dB(A) in 1 m
- Fuel optimisation
- Stucke genset controls

For more information contact our Power Generation team on 1300 688 338.