



# Mount Mulligan Hybrid Solar/ Diesel Power Station

## Platypus Power Pty Ltd - Far North Queensland

**Client:** Platypus Power Pty Ltd

**Date:** 2018

### SCOPE

Design, installation, testing and commissioning of 60kW Hybrid power station for Resort complex at Mt Mulligan, Far North Queensland.

The project includes the manufacture and supply of 2 x 70kVA diesel generating sets capable of full, paralleling operation as well as off-set provided by the Solar Array and Inverter system. The Generators, fuel cells, attenuators, fuel lines, piping cabling and Generator Control Switch Board are all supplied by i.Power Solutions and installed on site. The Gensets and Control Board are fully factory tested and then site tested again in conjunction with the solar system prior to the final commissioning process. i.Power Solutions is also in discussions with the end user to provide a servicing plan for the station in the future once the station is in service. This system is an Island system and operates separate to the power grid in a remote location.

### A brief overview of the contract includes:

- Design of the new Hybrid Power Station including full scoping, engineering and auditing and provision of Detailed Designs.
- Supply and Installation of :
- 2 x Diesel Gensets complete including radiators and connection points
- 2 x Discharge Air, Acoustic Attenuators
- 2 x complete, Exhaust systems including Silencers

- Supply of 6000L Diesel Fuel Cell plus Fuel Lines
- Supply of complete, Genset Controller Switch Board including Intelligent Paralleling control system with DC/Battery Back and 415 Power control and switching.
- Installation of all Power and Control Cabling from Gensets / Solar panels and Inverters to Main Switch Board
- Site Testing and Commission of Gensets and associated systems etc
- Site Documentation package

### OUTCOMES

The station will be completed on time and within the budget range. This Power project was a significant undertaking for i.Power Solutions Services. The client is very impressed with the professional manner in which the job has been executed and is already talking to i.Power Solutions about future work concepts.

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SOLUTIONS

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