



Quindanning - cost effective, renewable power

OVERVIEW

- Location: Quindanning, Western Australia
- 30 x PV panels - 9kW array
- 1 x 10kWh Redflow ZBM2 battery
- 1 x 5kVA Victron MultiPlus-II Inverter/Charger
- 2 x Victron SmartSolar MPPT 250/100 VE.Can Chargers
- Redflow Battery Management System (BMS)
- Victron Color Control GX (CCGX)

In 2017, a derelict building made up of two hexagonal pods was transported to a rural property in the south-west of Western Australia, with the intent of creating a dream retirement home.

With picturesque valley views towards the little town of Quindanning, the 80-hectare property sits high on a ridge surrounded by native bushland. But the property's location and difficult access, meant the 6-figure sum to connect to the power grid was cost-prohibitive. Going *off-grid* was the obvious solution

RBSS was commissioned to design a single battery energy storage system that could meet the couple's immediate needs and expand when their budget allowed.

The client's preferred solar panel location amongst trees also created challenges in maximising daily solar yields, especially during the winter months. To compensate, a 9kW PV array was installed on the workshop roof and an existing diesel genset incorporated to be on standby should it be needed.

The Redflow BMS monitors the system sending information to the Victron CCGX panel, which automatically regulates the starting and stopping of the



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genset to provide additional power when needed. Plus, the genset can be manually switched to take the load required to power the workshop machinery with any excess power generated used to charge the battery.

The RBSS energy storage system installed in Quindanning makes for a truly off-grid lifestyle that has low environment impact and is cost effective - now and into the future.

**For more details about this installation contact -
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9kW PV array east-west configuration designed to maximise solar yields



Victron SmartSolar MPPT 250/100 Charge Controllers



5kVA Victron MultiPlus-II Inverter/Charger, plus PV isolation board and breakers.



Completed battery room setup - with room to grow



At-a-glance information from Victron Color Control (CCGX)

Renewable Battery Storage Solutions (RBSS) provide specialist electrical contractor services for the design and installation of sustainable energy storage systems. Ideal for those wanting to complement existing or new solar power installations at home and the work-place, or as an energy backup solution using existing power grid.

RBSS offer services for a wide range of residential and commercial energy storage applications across the Perth metro area and regional Western Australia.



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