

Case Study

System Type	Standalone Power System
Location	Northern Rivers NSW
PV array	18.7kW
Usable battery storage	70kWh
Commissioned	May 2017

Client design brief

Design and install a standalone power system to provide a reliable power supply to the homestead, workshop, stables and store shed as the existing grid supply was inadequate and unreliable. The system needed to be secured against tampering and meet WHS requirements for the business employees. Floor space is valuable therefore the system must be as compact as possible.

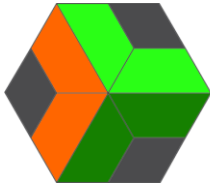
Design solution

Construct a purpose built battery room and active equipment room using insulated cool room panelling. This provided security, restricted access, protection against vermin and a stable temperature environment for the batteries and active equipment. A custom designed battery stand reduced the floor space our client needed to surrender to accommodate the system.

The design brief also applied to the installation of the backup generator. We modified a shipping container to house the backup generator. This included adding air intake grills and heat extraction fans. The generator exhaust system was altered to vent the exhaust outside.

Outcome

Our client has secured a reliable power supply for the operations of the business which has provided employment opportunities for the local area. The entire system is secure, safe and is easily maintained and serviceable. This installation is an example of how solar power and storage can assist rural and regional businesses maximise their potential.

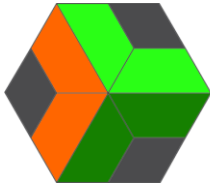


System Components

Inverter / Charge controller	Selectronic	1 x SP PRO SPLC1200
Grid-tie inverter	ABB	3 x PVI-6000
PV array	CSUN	72 x 260W
Batteries	Sonnenschein	60 x VRLA 1415Ah, 2V
Generator	Diesel	9 kVA

Battery room & equipment room





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SP PRO SPLC1200



Grid-tie inverters 3 x ABB PVI-6000

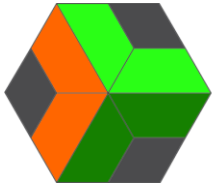


**Battery bank &
custom built stand**



Diesel generator room





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PV array



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