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ENERGY MANAGEMENT  
*Affordable Clean Energy*

## Case Study

<b>System Type</b>	Standalone Power System
<b>Location</b>	West Wiangaree
<b>PV array</b>	5.12kW
<b>Usable battery storage</b>	10kWh
<b>Commissioned</b>	November 2017

### Client design brief

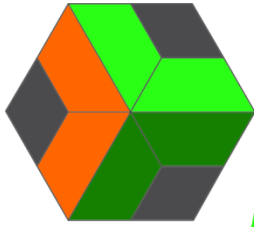
Our client was using a small diesel generator for all their power requirements and on average, using \$80 / week in fuel. We were asked to design and install a standalone power system to provide a reliable power supply to the cottage at a budget conscious price. We were to use the workshop / shed adjacent to mount the solar array and house the active equipment and batteries. The system must be capable of supplying enough power to run an air conditioner, clothes dryer, washing machine and other household appliances.

### Design solution

We designed and installed a 5.12kW PV array using 16 x 320W Canadian Solar polycrystalline solar modules. We used the Selectronic / ABB multimode charge controller and string inverter combination for reliability and economy and used BAE VRLA deep cycle batteries for performance and reliability. The design brief also called for provision for an auto start diesel generator to be connected to the system.

### Outcome

Our client now has a reliable power supply that allows them to produce use and store all the power they require to run the appliances nominated in the brief. They have not yet had to rely on the backup generator for additional power.



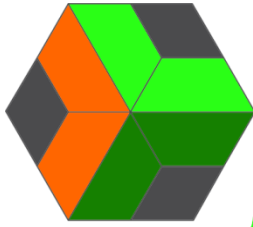
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## System Components

Inverter / Charge controller	Selectronic	1 x SP PRO SPMC241
Grid-tie inverter	Fronius	1x 5kW Primo
PV array	Canadian Solar	16 x 320W
Batteries	BAE	12 x 858Ah @C10
Generator	Diesel	6 kVA

## Solar Array





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## Multimode charge controller and Inverter



For more information on how we can provide you with  
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