

# Renewable Energy and Environmentally Sustainable Design Case Studies

## Kyneton - RAPS

*"I was really happy with the professionalism and speed with which Duncan & Nathan worked, and any questions I had after installation were answered in simple language that I was able to follow. All my dealings with Going Solar, whoever answered the phone, or came in site have been excellent. The system has worked better than I had anticipated, fulfilling all the criteria set out in our discussions. I never hesitate in recommending the team at Going Solar: professional, friendly, and efficient. Thanks to 'Team Going Solar,' for reducing my greenhouse emissions and providing great service all round."*

**Chris Shepherd-Clark, 1/7/10**

### Site:

Kyneton, Victoria

### Dates:

- System Design: April 2009
- System Installation: August 2009
- System Commissioned: August 2009

### Client:

Chris Shepherd-Clark

### Project Goals:

Design, supply and install a RAPS system for household supply.

[RAPS = Remote Area Power System]

### Project Features:

- Roof-mounted photovoltaic array consisting of 8 x 170W Schott Solar PV panels.
- SP Pro 3.5 kW Inverter/Charger
- 6 SSR 1320 4V 1320Ah Batteries
- Framing, cabling, signage, fusing, earthing, etc
- Complete system documentation including maintenance schedule and log sheets.
- System size: 1360 W
- The use of Bluetooth for system monitoring. This allows the customer to monitor the system from his house without having to get to the shed.
- The custom-made control board which features fabricated covers to conceal wiring and conduit for neatness and safety.



**PV Panels on the Shed Roof**



**PV Panels on the Shed Roof**



**Rear of PV Panels**



**Control Panel**

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## Project Team:

- Nathan Martin, System Design & Installer, Going Solar
- Duncan Macgregor, Lead Installer, Going Solar
- Cameron De Marco, Installer, Going Solar
- Glenn Robertson, Electrical Contractor

## Further Information:

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**Battery Box with Signage**



**Battery Box (side view)**



**Batteries (lids closed)**



**Detail of Battery (lid open)**