

# Renewable Energy and Environmentally Sustainable Design Case Studies

## Beaconhills College – ESD & GIPV

### Site:

Year 9 Environment Centre, Berwick, Victoria

### Dates:

- ESD Report: December 2009
- System Design: February 2010
- System Installation: January 2011
- System Commissioned: February 2011

### Client:

Beaconhills Village College

### Project Goals:

In December 2009, Going Solar was asked to prepare a Sustainability Report (ESD) for two Beaconhills campuses – Valley Campus at Pakenham and Village Campus at Berwick.

In February 2010, Going Solar was invited to design, and later supply and install a grid-connected power system for the Year 9 Environment Centre at Berwick.

### Project Features:

- Roof-mounted photovoltaic array consisting of 12 x 175W Schott Solar poly panels.
- SMA SunnyBoy 2500 Inverter
- Complete system documentation including maintenance schedule and log sheets.
- System Size: 2100 W
- Expected Output: 8kW/day

### Project Team:

- Stephen Ingrouille, ESD Consultant, Going Solar
- Jo Bradley, Project Manager, Going Solar
- Duncan McGregor, Lead Installer, Going Solar
- Nathan Martin, Installer, Going Solar
- Wes Shields, Electrician

### Further Information:

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GIPV = Grid Interactive Photovoltaics  
ESD = Environmentally Sustainable Design



PV Panels on Roof



Safety Switch



WebBox (left) and Inverter



Safety Signage