

Renewable Energy and Environmentally Sustainable Design Case Studies

MLC Mallacoota - SHW

Award Winning Project:

This project won the 2011 Clean Energy Council award for *Best Design and Installation of a Solar Hot Water System*.

Site:

Mallacoota, Eastern Victoria

Dates:

- System Design: October 2009
- System Installation: May-July 2010
- System Commissioned: July 2010

Client:

Margaret Williams Centre
MLC Marshmead School

Project Goals:

Design, supply and install of a hybrid panel solar hot water system for a commercial kitchen and laundry to minimise expensive LP Gas usage. Also to demonstrate a split-level solar hot water system to Year 9 students.

Project Features:

- A hybrid system using both flat-plate and evacuated tube collectors. To our knowledge there is no other system like this in Australia
- Three Australian-made stainless steel tanks with 20% more insulation on solar storage tank than required by Australian Standard for solar hot water tanks.
- The special care taken in both design and installation to ensure an excellent job.

The system consists of:

- 3 x 315L Rinnai stainless steel cylinder tanks;
- 4 x Rinnai Excelsior FTC flat collectors;
- 2 x 20 tube Apricus evacuated tube collectors;
- 2 x Rinnai manifolded LP gas boosters.

Project Team:

- Mark Donaldson, SHW Specialist, Going Solar
- Darren Bride, Sustainable Solar and Plumbing

Further Information:

- mark@goingsolar.com.au
- www.goingsolar.com.au
- (03) 9348 1000



SHW Panels on Roof



SHW Panels on Roof

- Evacuated Tubes on left
- Flat Plate Panels on right



Rear of SHW Panels on Roof



Detail of Controller

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Storage Tanks and Gas Boosters



Detail of Installation



Detail of Installation

