

SolarTech Ltd.

Providing Energy for Today, Protecting the Environment for Tomorrow.

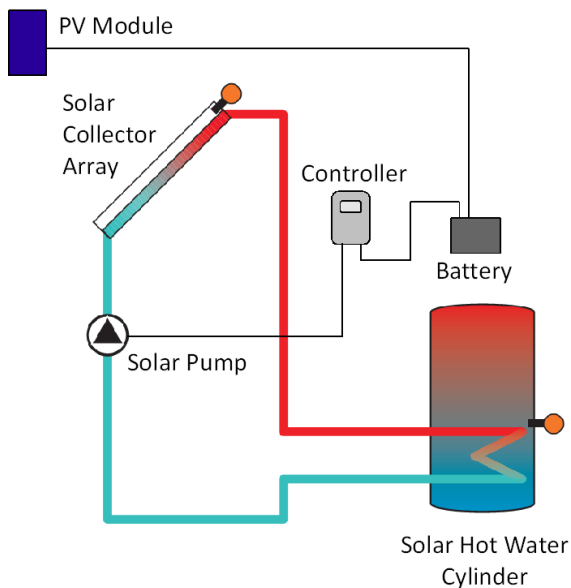
100% Solar Powered 'Off Grid' Solar Thermal

The key objective on this installation was to provide a solution that was entirely powered by the sun for both hot water and electrical generation.

A normal Solar Hot Water heating system will require mains electricity to run the controller and pump. SolarTech's 'Off-Grid' Solar hot water heating system provides hot water with zero running costs by being independent from mains electricity.

The system will produce around 1,500kWh of energy per year with no 'parasitic losses' from mains powered pumps and controls.

'Off-Grid' Solar System



The system is designed to allow the correct function & control of the solar hot water heating system without the requirement of an external power source.



The Photovoltaic module & storage battery are sized to ensure proper year round operation.

Our system offers enhanced performance over other 'Off-Grid' systems by using a temperature differential controller as opposed to the 'sun triggered-direct pump powered' method, often used on inferior systems.

System Outline

- 2 No. Fisol FS16 On-roof Flat Plate Collectors
- 180 litre Vented Solar Hot Water Cylinder
- 80W PV Module
- 24v Deep Cycle PV Battery
- Low Voltage Pump-station and Controller

Approximate Annual Energy Yield: 1,500kWh

Approximate Roof Area Used: 5m²