

# 10 kWp PV Installation Land Based Skills Centre Minehead



In the Summer/Autumn of 2008 Ardenham Energy installed and commissioned a 60 162Wp PV module based system on the concrete roof of the Land Based Skills Centre, part of West Somerset College. The project secured 50% funding as part of the Governments Low Carbon Building Programme phase 2.

In full compliance with main contractor's health and safety regulations; the installation was undertaken in 4 working days. The electricity generated is synchronised with the grid supply via 3 phase connected inverters and will be used to supply clean energy to the building, as well as exporting excess energy to the grid for use elsewhere.

The 10kWp array is almost silent in operation and will generate around 9500 kWh of greenhouse gas free electricity each year. The installation includes a display in the reception area which will outline real time energy production as well as cumulative kWh and CO<sub>2</sub> savings.

The installation comprises:-

- 60 Sharp 162Wp PV Modules
- 3 no Fronius IG30 Outdoor inverters
- AC switchgear
- DC Switchgear
- 3 phase kWh meter



**Ardenham Energy Ltd** is an engineering contractor certified under the UKMCS Low Carbon Buildings Scheme for grant aided projects ([www.lowcarbonbuildings.org.uk](http://www.lowcarbonbuildings.org.uk)). The company has extensive renewable energy engineering project experience and can provide a full service for wind systems, solar PV (electric), solar hot water systems, ground and air source heat pumps and backup power systems. These can be for domestic, governmental and commercial and non commercial buildings in the Home Counties and London region.

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