

# 1.8 kWp Solar Electric Array

Brookfields School, Tilehurst, Reading, Berkshire.



The grid connected roof mounted PV has been installed and commissioned by Ardenham Energy Ltd on the Brookfield's School, in Tilehurst near Reading.

The installation was undertaken following the award of a Low Carbon Building Programme Phase 2 Grant, and planning approval by West Berkshire Council in autumn 2008. The electricity generated is synchronised with the grid supply via an inverter and will be used to supply clean energy to the property. Energy not used by the school can be exported to the grid for use elsewhere.

The 1.8kWp array is almost silent in operation and will generate around 1600kWh 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 took 3 days to complete and comprises:-

- 10 no Sharp 180Wp crystalline Modules
- 1 no SMA SB2500 G83/1 compliant inverter
- 1 phase pulsed kWh Meter
- DC and AC switchgear
- Display Unit

Working with

**SHARP**  
SOLAR



**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.

**For more information contact:**

Ardenham Energy Ltd  
Ardenham Court  
Oxford road  
Aylesbury,Bucks, HP19 8HT

Tel 01296 –331362  
Fax 01296 375747  
[www.ardenhamenergy.co.uk](http://www.ardenhamenergy.co.uk)  
[info@ardenhamenergy.co.uk](mailto:info@ardenhamenergy.co.uk)



MCS 1002  
Solar Photovoltaics  
Wind Turbines  
Solar Thermal  
Heat Pumps

**Ardenham Energy – The Home of Renewable Energy**