

4.2kWp PV Array – Southfields School Wokingham, Berkshire



The grid connected roof mounted PV has been installed and commissioned by Ardenham Energy Ltd on the gymnasium roof of the Southfields Special School in Wokingham. This is as part of the British Gas Low Carbon Buildings Programme framework funded by BERR.

The installation was undertaken following the award of a Low Carbon Building Programme Phase 2 Grant, and planning approval by Wokingham Borough Council in February 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 that the school does not use can be exported to the grid and used elsewhere.

The 4.2kWp array is almost silent in operation and will generate around 3700kWh 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 CO₂ savings.

The installation took 3 days to complete and comprises:

- 26 no Sharp 162Wp crystalline Modules
- 2 no Fronius 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). 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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