

## 2 kWp PV Array - Hawthorns School Wokingham, Berkshire



The grid connected roof mounted PV has been installed and commissioned by Ardenham Energy Ltd on the Hawthorns School in Wokingham after development work by TV Energy and Wokingham Borough Council.

The installation was undertaken following the award of a Low Carbon Building Programme Phase 1 Grant, and planning approval by Wokingham Borough Council in September 2007. The electricity generated is synchronised with the grid supply via an inverter and will be used to supply clean energy to the property, as well as exporting excess energy to the grid for use elsewhere.

The 2kWp 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:

- 12 no Sharp 162Wp crystalline Modules
- 1 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](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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