

6.68kWp PV Array – Claremont School Tunbridge Wells, Kent



In May 2008 Ardenham Energy installed and commissioned the 6.68 flat roof mounted grid tied PV system on the gymnasium roof of the Claremont Primary School in Tunbridge Wells. The project was funded by the Kent County Council Renewable Energy Fund, Low Carbon Building Phase1 grant and from an Eon Source grant.

The installation was undertaken in 3 working days following planning approval by Kent County Council in May 2008. The electricity generated is synchronised with the grid supply via 2 x 3500W inverters and will be used to supply clean energy to the property, as well as exporting to the grid for use elsewhere when there is more energy produced than is necessary in the property.

The 6.68kWp array is almost silent in operation and will generate around 6000 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 CO₂ savings.

The installation took 3 days to complete and comprises:-

- o 40 no Sharp 167Wp crystalline Modules
- o 2 no SMA SB3000 Inverters
- o Non penetrative flat roof mounting system
- o 3 phase pulsed kWh Meter
- o DC and AC switchgear
- o Sunny Display Unit



Ardenham Energy Ltd is an engineering contractor certified under the MCS Low Carbon Buildings Scheme for grant aided projects (www.lowcarbonbuildings.org.uk). The company has extensive renewable energy engineering project experience 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 for domestic, governmental and commercial and non commercial buildings in the Home Counties and London region.

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