

2.5 kWp Solar Electric and Thermal Array Cuckfield, East Sussex



In September 2009, a grid connected 2.5 kWp roof mounted, solar electric and solar thermal array was installed and commissioned by Ardenham Energy Ltd on the roof of this residential property in Cuckfield, East Sussex.

The installation was undertaken following the award of a Low Carbon Building Programme Grant. The combination of the grant and the forthcoming Feed In tariff has made the installation of solar electric systems a very attractive proposition with potential investment returns in excess of 10%.

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 2.5 kWp array is almost silent in operation and will generate around 3100 kWh of greenhouse gas free electricity each year. The Solar thermal system will supply the main boiler to provide hot water heating for the property.

The installation comprises:-

- 16 no Sharp 170 Wp crystalline Modules
- SB2500 G83/1 compliant inverters
- Lazer 2Z Solar Thermal Collectors
- Pumping Station and control systems
- 1 phase pulsed kWh Meters
- DC and AC switchgear
- Roof mounting systems

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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