

1.44 kWp Solar Electric Array

Enstone, Oxfordshire



In October 2009, a grid connected 1.44 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 Enstone near Chipping Norton in Oxfordshire.

The installation was undertaken in a day following the award of a Low Carbon Building Programme Grant. "Feed in Tariffs" for Electricity are due to start in April 2010, and a similar tariff for heat technologies starts a year later. 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. Energy not used within the property can be exported to the grid. The 1.44 kWp array is almost silent in operation and will generate around 1200 kWh of greenhouse gas free electricity each year.

The installation comprises:-

- 8 no Sharp 180 Wp crystalline Modules
- SB1100 G83/1 compliant inverters
- Wireless Visula Display
- 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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