

1.7 kWp Solar Electric and Thermal Array

Blewbury, Oxfordshire



In September 2009, a grid connected 1.7 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 Blewbury in Oxfordshire.

The installation was undertaken 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 will be introduced 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, as well as exporting to the grid for use elsewhere when there is more energy produced than is necessary in the property. 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:-

- 10 no Sharp 170 Wp crystalline Modules
- Fronius IG15 Inverter
- Solar UK Lazer 2 Collectors
- Pumping Station
- 1 phase pulsed kWh Meters
- DC and AC switchgear
- Roof mounting systems



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.

For more information contact:

Ardenham Energy Ltd
Ardenham Court
Oxford road
Aylesbury, Bucks, HP19 8HT

Tel 01296 –331362
Fax 01296 375747
www.ardenhamenergy.co.uk
info@ardenhamenergy.co.uk



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