

# Solar Electric and Hot Water System

## Blewbury , Oxfordshire



In Spring 2010, a grid connected 2.6 kWp “In Roof” solar electric array and a 2 Collector Solar Thermal system was installed and commissioned by Ardenham Energy Ltd on a property in Blewbury, Oxfordshire as part of an overall refurbishment.

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 by the property can be exported to the grid and used elsewhere. The 2.6 kWp array is almost silent in operation and will generate around 1800 kWh of greenhouse gas free electricity each year. The solar thermal system will provide heated water, and will reduce the gas consumption of the boiler.

The installation comprises:

- 14 no 185 Wp Amerisolar Monocrystalline Modules
- 2 x SMA SB1200 G83/1 compliant inverter
- 1 phase pulsed kWh Meters
- DC and AC switchgear
- 2 x Lazer 2z Evacuated Tube Solar Thermal Collectors, and controls.

**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.

**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](http://www.ardenhamenergy.co.uk)  
[info@ardenhamenergy.co.uk](mailto:info@ardenhamenergy.co.uk)



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Solar Photovoltaics  
Wind Turbines  
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