

# 1 kWp PV Array & Solar Hot Water System West London



The grid connected roof mounted PV and Solar Hot Water array has been installed and commissioned by Ardenham Energy Ltd on a private residence overlooking the River Thames in London.

The installation was undertaken following the award of a Low Carbon Building Programme Phase 1 Grant, and planning approval by The London Borough of Hammersmith and Fulham in August 2007. 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 for use

elsewhere. The hot water generated pre heats a storage cylinder within the property.

The 1kWp array is almost silent in operation and will generate around 900kWh of greenhouse gas free electricity each year.

The installation took 3 days to complete and comprises:

- 5 no Sanyo 215Wp Sanyo 215 Wp Modules
- 1 no QS1200 Mastervolt G83/1 compliant inverter
- 1 phase pulsed kWh Meter
- DC and AC switchgear
- 2 Horizontal Solar UK LaZer 2 Evacuated Tube Solar Tube Collectors
- Solar Hot Water Control System

**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.

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