

## 3.5 kWp Solar Electrical Array Nuthampstead, Hertfordshire



In September 2009, a grid connected 3.5 kWp roof mounted, solar electric array was installed and commissioned by Ardenham Energy Ltd on the roof of this residential property in Nuthampstead.

The installation was undertaken following the award of a Low Carbon Building Programme Grant. "Feed in Tariffs" are due to start in April 2010 and so in combination with the grant, 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 in the property can be exported to the grid and used elsewhere. The 3.5 kWp array is almost silent in operation and will generate around 3100 kWh of greenhouse gas free electricity each year.

The installation took 2 days to complete and comprises:

- 21 no Sharp 170 Wp crystalline Modules
- G83/1 compliant inverters
- 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](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)



MCS 1002  
Solar Photovoltaics  
Wind Turbines  
Solar Thermal  
Heat Pumps

**Ardenham Energy – The Home of Renewable Energy**