

2.04 kWp Solar Electric Array

Stoke Mandeville, Aylesbury, Buckinghamshire



In October 2009, a grid connected 2.04 kWp roof mounted, solar electric array was installed and commissioned by Ardenham Energy Ltd on the roof of this residential property in Stoke Mandeville, in Buckinghamshire.

The installation was undertaken in 2 day following the award of a Low Carbon Building Programme Grant.

“Feed in Tariffs” for Electricity are due to start in April 2010, so in combination with the grant, the installation of solar electric systems is 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 by the property can be exported to the grid and used elsewhere. The 2.04 Wp array is almost silent in operation and will generate around 1800 kWh of greenhouse gas free electricity each year.

The installation comprises:

- 12 no Sharp 170 Wp crystalline Modules
- Fronius IG30 compliant inverter
- 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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