

# 4 kWp Solar Electric Array

## Stratford, Warwickshire



In November 2009, a grid connected 4kWp ground mounted, solar electric array was installed and commissioned by Ardenham Energy Ltd in the grounds of a residential property near Stratford upon Avon, Warwickshire. 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, 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 4kWp array is almost silent in operation and will generate around 3600 kWh of greenhouse gas free electricity each year.

The installation comprises:

- 22 no Mitsubishi 180 Wp crystalline Modules
- SMA 4000 TL G83/1 compliant inverter
- 1 phase pulsed kWh Meters
- DC and AC switchgear
- SMA Bluetooth Sunny Beam Display
- Ground screw based mounting 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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