

Solar Electric System

Heath & Reach, Bedfordshire



In January 2010, a grid connected 2.16 kWp roof mounted, solar electric array was installed and commissioned by Ardenham Energy Ltd on a cottage in Heath and Reach near Leighton Buzzard in Bedfordshire. The installation was undertaken following the award of a Low Carbon Building Programme Grant.

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 2.16 kWp array is almost silent in operation and will generate around 1800 kWh of greenhouse gas free electricity each year.

The installation comprises:

- 12 no 180 Wp Amerisolar Monocrystalline Modules
- Fronius IG20 G83/1 compliant inverter
- 1 phase pulsed kWh Meters
- DC and AC switchgear

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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