

11.2 kWp Solar Electric Arrays Northmoor Trust, Oxfordshire.



The grid connected solar arrays were installed and commissioned by Ardenham Energy Ltd on the cafe and adjoining fields of the Northmoor Trust in Little Wittenham in Oxfordshire.

The two arrays are a combination of a 6 panel demonstration array on the roof of cafe in the quadrangle and a 60 panel ground mounted secured into the ground by tensile load bearing ground screws. The project was funded by a combination of Northmoor Trust Funds, Low Carbon Building Programme phase 2 and a National Lottery grant award.

The arrays are almost silent in operation and will generate around 10,000 kWh of greenhouse gas free electricity each year.

The system has a visual display in entrance to the quadrangle showing cumulative kWh, and CO₂ savings as well as real time energy generation.

Ardenham Energy are contracted for the British Low Carbon Building framework, and provided grant application assistance in conjunction with TV Energy to help secure the project.

The installation comprises:

- 66 no Sharp 170Wp polycrystalline Modules
- 3 no Fronius Inverters
- 2 no Mastervolt Inverters
- Pulsed kWh Meters
- DC and AC switchgear
- Ground
- Innovative ground mounted system
- Radio based Graphic Display

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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