

3 kWp Solar Electricity Array St Christopher's School, Lincoln



The grid connected roof mounted PV has been installed and commissioned on the roof of the gymnasium of the school by Ardenham Energy Ltd in 2 days. The project was funded by the Low Carbon Buildings Programme. Ardenham Energy undertook the installation in September 2008.

The 3 kWp array is almost silent in operation and will generate around 2700kWh of greenhouse gas free electricity each year. A ground source heat pump and a wind turbine will shortly be installed at the site and the installation will then include a display which will outline real time energy production as well as cumulative kWh and CO₂ savings.

The installation took 2 days to complete and comprises:

- 18 no Sharp 162Wp crystalline Modules
- 1 no Fronius IG30 G83/1 compliant inverter
- Pulsed kWh Meters
- DC and AC switchgear
- Non penetrative flat roof 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). 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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