

10.2 kWp Solar PV Array

St Leonards VA School, Heath & Reach, Bedfordshire



The 3 Phase grid connected roof mounted PV has been installed and commissioned by Ardenham Energy Ltd on the roof of St Leonards VA Lower School in Heath & Reach Bedfordshire. The project was supported by the Big Lottery funded Community Sustainable Energy Programme, EDF Green Energy Fund Low Carbon Buildings Programme and PTA. Ardenham Energy undertook the installation in December 2008.

The electricity generated is synchronised with the grid supply via 3 inverters and will be used to supply clean energy to the property. Excess energy can also be exported to the grid for use elsewhere.

The 10.2 kWp array is almost silent in operation and will generate around 8,600 kWh of greenhouse gas free electricity each year. The installation includes a display in the reception area which will outline real time energy production as well as cumulative kWh and CO₂ savings.

The installation took 5 days to complete and comprises:-

- 60 no Sharp 170 Wp crystalline Modules
- 3 no Fronius IG30 G83/1 compliant inverters
- 3 phase pulsed kWh Meters
- DC and AC switchgear
- Display Unit

Working with

**SHARP
SOLAR**



LOTTERY FUNDED

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.

For more information contact:-

Ardenham Energy Ltd
Ardenham Court
Oxford road
Aylesbury,Bucks, HP19 8HT

Tel 01296 –331362
Fax 01296 375747
www.ardenhamenergy.co.uk
info@ardenhamenergy.co.uk



MCS 1002
Solar Photovoltaics
Wind Turbines
Solar Thermal
Heat Pumps

Ardenham Energy – The Home of Renewable Energy