

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, as well as exporting to the grid for use elsewhere when there is more energy produced than is necessary in the property.

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



Ardenham Energy Ltd is an engineering contractor certified under the MCS Low Carbon Buildings Scheme for grant aided projects (www.lowcarbonbuildings.org.uk). The company has extensive renewable energy engineering project experience can provide a full service for wind systems, solar PV (electric), solar hot water systems, ground and air source heat pumps and back up power systems for domestic, governmental and commercial and non commercial buildings in the Home Counties and London region.

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