

## 8.6 kWp Solar PV Array

Mary Bassett School, Leighton Buzzard, Bedfordshire



The grid connected roof mounted PV as been installed and commissioned by Ardenham Energy Ltd on the roof of The Mary Bassett School in the centre of Leighton Buzzard. The project was supported by the Lottery funded Community Sustainable Energy Programme, Low Carbon Buildings Programme and PTA. Ardenham Energy undertook the installation in October 2008.

The installation was undertaken following the award of both a CSEP and Low Carbon Building Programme Phase 2 Grant. 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 8.6 kWp array is almost silent in operation and will generate around 8000 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 CO<sub>2</sub> savings.

The installation took 5 days to complete and comprises:-

- 52 no Sharp 170 Wp crystalline Modules
- 3 no SMA 2500 G83/1 compliant inverters
- 3 phase pulsed kWh Meters
- DC and AC switchgear
- Non penetrative flat roof mounting system
- Display Unit

Working with

**SHARP  
SOLAR**



**Ardenham Energy Ltd** is an engineering contractor certified under the MCS Low Carbon Buildings Scheme for grant aided projects ([www.lowcarbonbuildings.org.uk](http://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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