

## 8.84 kWp Solar Electric Arrays Greenfield (C of E) Lower School



The grid connected solar arrays were installed and commissioned by Ardenham Energy Ltd on the roofs of the Greenfields C of E Primary School in Greenfields, Bedfordshire over the February half term 2008.

The arrays comprising 52 Sharp 170Wp PV Panels on an innovative lightweight mounting system for flat roof mounted systems. The project was funded by a combination of school funds, an East of England Development Agency "Cut you Carbon" award and a Low Carbon Building Programme phase 2 grant award.

The installation comprises:

- 52 no Sharp 170Wp polycrystalline Modules
- 3 no SMA SB 2500 inverters
- 1 no Mastervolt Soladin inverters
- DC and AC switchgear
- Innovative flat roof mounting system
- Graphic Display

The arrays are almost silent in operation and will generate around 8000 kWh of greenhouse gas free electricity each year.

The system has a visual display in the school reception area showing cumulative kWh, and CO2 savings as well as real time energy generation.

Ardenham Energy are contracted for the British Low Carbon Building framework.

**Ardenham Energy Ltd** is an engineering contractor certified under the UKMCS 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 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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