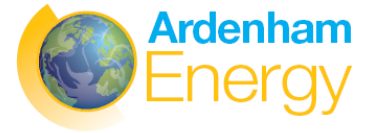


# 100 kWp Solar Electric Arrays

## Low Carbon West Oxford, Matthew Arnold School



In April 2010, Ardenham Energy installed a 100 kWp system for Low Carbon West Oxford on the roofs of the main and science block of the Matthew Arnold School in Botley, Oxford.

The electricity generated is synchronised with the grid supply via inverters and will be used to supply clean energy to the school, as well as exporting to the grid for use elsewhere when there is more excess energy.

The 100 kWp array is almost silent in operation and will generate around 85,000 kWh of greenhouse gas free electricity each year.

- 540 no Amerisolar 185 Mono crystalline Modules
- Mastervolt Inverters
- kWh Meter
- DC and AC switchgear
- Wireless kWh / kW / CO2 Displays

The project was funded by Low Carbon West Oxford securing a DECC Low Carbon Communities Challenge.



**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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