

14.6 kWp PV Installation

Yerbury School, Islington



In the Autumn/Winter of 2008, Ardenham Energy installed and commissioned a 86 no 170Wp PV module based system on the South East and South West Facing roof of Yerbury Primary School in Islington. The project was supported by Islington Council Climate Change Fund and funding as part of the Governments Low Carbon Building Programme phase 2.

In full compliance with main contractor's health and safety regulations; the installation was undertaken in 4 working days. The electricity generated is

synchronised with the grid supply via 3 phase connected inverters and will be used to supply clean energy to the building. Energy not used by the school can be exported to the grid for use elsewhere.

The 14.6kw array is almost silent in operation and will generate around 12,500 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 comprises:-

- SE Array 60 Sharp 170Wp PV Modules
- South West Array 26 no Sharp 170Wp PV Modules
- 2 no SMA SMC5000 inverters, 1 no SMA SB3800 inverter
- G59 Relay and cabinet witness tested and approved by EdF Energy
- AC switchgear
- DC Switchgear
- 3 phase kWh meter

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.

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