

11.2 kWp Solar Electric Array

West Berkshire Council HQ, Newbury, Berkshire.



The grid connected roof mounted PV has been installed and commissioned by Ardenham Energy Ltd on the roof of West Berkshire Councils Head office in Market Street in Newbury.

The installation was undertaken following the award of a Low Carbon Building Programme Phase 2 Grant, and planning approval granted by West Berkshire Council in December 2008. The electricity generated is synchronised with the grid supply via an inverter on each of the 3 phases and will be used to supply clean energy to the building, as well as exporting to the grid for use elsewhere.

The 11.2 kWp array is almost silent in operation and will generate around 10,000kWh 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 3 days to complete and comprises:-

- 66 no Sharp 170Wp Polycrystalline Modules
- Non penetrating flat roof mounting solution
- 3 no Fronius IG40 G83/1 compliant inverters
- 3 phase pulsed kWh Meter
- DC and AC switchgear
- Display Unit



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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