

# Grid Connected Wind Turbine & Solar Electric PV Quinton, Buckinghamshire



## Description

A grid connected 2.6 kWp solar PV Array and a 6 kW Ground mounted wind turbine have been installed and commissioned by Aylesbury based **Ardenham Energy Ltd** in Quinton in Buckinghamshire. It is the first domestic property in the region to have a combination of such technology. The turbine is currently the largest installed turbine in Buckinghamshire. Quinton Hill has an average wind speed of 6 metres per second, and the combination of solar PV and wind is ideal for the location.

The installation was undertaken following planning approval by Aylesbury Vale District Council in summer 2007. The electricity generated from the PV array and wind turbine is synchronised with the grid supply and will be used to supply clean energy to the property. Excess energy will be exported to the grid for use elsewhere. The evacuated tube solar thermal system provides hot water to the cylinder within the property.

The village of Quinton has had a windmill in the village for over 200 years, and the Sirocco turbine manufactured by Eoltec is one of the most attractive and yet most powerful of its type in the market today.

- 16 no 170Wp PV Modules manufactured by manufacturing supply partner Sharp (UK) in Wrexham.
- 1 no Sirocco grid connected wind turbine manufactured by Eoltec SPA.
- PV & Wind turbine Grid synchronising inverters.
- Ac & dc control switchgear and cabling and trunking.
- Tower foundation civil engineering and tower erection.



**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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