

# 2 kWp PV Array and 600W Wind Turbine Laing O'Rourke/Crown House



## Description

The grid connected hybrid PV and wind array was installed and commissioned by Ardenham Energy Ltd at a data centre construction project near Gatwick Airport.

The electricity generated is synchronised with the grid supply via an inverter and will be used to supply clean energy to the site, and can also be sold to the grid for use elsewhere if there is more energy produced than is needed in the site offices.

The 2kWp PV array and wind turbine are almost silent in operation and will generate around 2500 units (kWh) of greenhouse gas free electricity each year.

The installation comprises:

- 12 no 162Wp Sharp Polycrystalline Modules
- 1 Ampair 600 Grid Connected wind turbine system
- 1 no SMA SB1700 (PV) and SMA SB700 (Wind) Inverters
- Sunny beam data communication
- Pulsed kWh Meters
- DC and AC switchgear

Working with

**SHARP**  
SOLAR



**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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