

High Temperature ASHP , 2kWp Solar PV

Tunbridge wells, Kent



In December 2009, a grid connected 2kWp roof mounted, solar electric array and a High Temperature Air Source Heat Pump was installed and commissioned by Ardenham Energy Ltd on an existing property in Tunbridge Wells in Kent. The installation was undertaken following the award of a Low Carbon Building Programme Grant.

The system is amongst the first in the UK to combine Air Source Heat Pump and solar PV. The high temperature heat pump provides high temperature heat to the radiators with a high efficiency ratio, making it an ideal solution for retrofitting an existing property with a heat pump.

The electricity generated is synchronised with the grid supply via an inverter and will be used to supply clean energy to the property. Energy not used by the property can be exported to the grid and used elsewhere. The 2kWp array is almost silent in operation and will generate around 3600 kWh of greenhouse gas free electricity each year.

The installation comprises:

- Daikin High Temperature Heat Pump system
- 12 no 180 Wp crystalline Modules
- Fronius IG20 G83/1 compliant inverter
- 1 phase pulsed kWh Meters
- DC and AC switchgear

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.

For more information contact:

Ardenham Energy Ltd
Ardenham Court
Oxford road
Aylesbury,Bucks, HP19 8HT

Tel 01296 –331362
Fax 01296 375747
www.ardenhamenergy.co.uk
info@ardenhamenergy.co.uk

Ardenham Energy – The Home of Renewable Energy



MCS 1002
Solar Photovoltaics
Wind Turbines
Solar Thermal
Heat Pumps