

# Planet Energy Solutions

*Technology for a Sustainable Future*

## Some of our completed installation projects.

### Unity Gardens, Long Sutton, Lincolnshire Rural Housing Assoc.,



For this Code 5 earth sheltered six dwelling housing project a number of sustainable features were included. The PES organised installations included 6 x modular PV arrays, 6 x Rainwater harvesting systems and a 5kW Vertical Axis Wind Turbine. Although early days the PV systems alone generate 5 times the schemes electrical use.

### Private Dwelling, Chalfont St Giles, Buckinghamshire.



This three bed-roomed house refurbishment project already had Solar DHW and some Photovoltaic panels from some years ago. PES organised the installation of a 15kW wood pellet modulating and weather compensated boiler with storage hopper & vacuum feed system to integrate with the existing Solar DHW system. We also supplied a new rainwater harvesting system, installed in the garden and feeding the toilets and washing machine in the house. After 1 year the client reports that the boiler has performed exceptionally well, they used 3.98 tonnes of pellets and have de-rated the boiler to run as a 10kW unit for the 2009 winter period.

### Cherry Copse, Private Dwelling project , Bristol.



For this domestic new build project in Bristol we partnered with an experienced local roofing contractor for a Living Sedum roof to be installed over the single storey south facing kitchen.

**Vicarage Mead, Thaxted, Essex. Uttlesford District Council.**



As part of the redevelopment of a sheltered housing complex a 5.832kWp PV array to meet close dimensional limits using Sharp 162W poly-crystalline modules was installed. The client reported over 600kWh of power generated in the first month of operation, well above predictions. After 402 days in service it had generated 6,426kWh, exceeding our anticipated expectations by more than 17%

**Private Dwelling, London Rd, Knebworth, Hertfordshire.**



An Architect client and his wife had 16 x 180W Sharp modules installed on the south facing side elevation of their roof in January 2009. This 2.88kWp array has performed above expectations in the 196 days to the middle of August having generated 1922kWh of zero carbon electricity, an average of 9.8kWh/day. The majority having been used at the house for maximum benefit. The anticipated annual yield previously estimated at 2500kWh is now expected to reach close to 3000kWh, with a value to the client of approx. £1200/yr

**Private Dwelling, The Radian, Boxford, Suffolk.**



This low carbon domestic new build project incorporates a 5kW Vertical Axis Wind Turbine and Rainwater Harvesting system. The project also included Solar DHW and a wood burning stove. It was filmed for the Channel 4 'Grand Designs', TV programme and it is hoped will be screened next year.

We offer pre-design advice and a wide range of sustainable energy options to home owners, authorities and businesses of every size. We offer to support our clients with regard to renewable energy systems from initial conception through to installation and beyond with well engineered and integrated, multi-technology solutions for both existing and new build, residential and commercial projects.

Please contact us if we can be of assistance.

***Planet Energy Solutions***

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**Renewable Energy Systems**

Solar Heating, Photovoltaic, Wind Turbines, Biomass boilers, Heat Pumps, Sedum/Living roofs, Rainwater Harvesting, CHP Systems, Consultancy.

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