

Case Study WD2

15kW Wood Pellet boiler system
Chalfont St. Giles, Bucks.

During the summer of 2008 a traditional detached property in Chalfont St. Giles, Buckinghamshire underwent a major refurbishment with Low Carbon and sustainability as the driving force, to become a highly efficient modern day eco house.



Already fitted with both solar hot water and solar PV systems the addition of a rear extension presented the opportunity to increase the sustainable living experience by installing high levels of natural insulation materials, adding a rainwater harvesting tank and replacement of the gas boiler with a wood fuelled boiler and UFH heating system.

A 15kW Windhager BioWIN automatically fed pellet boiler with weather compensated temperature controls to serve a new UFH system was installed.

The pre-assembled distribution pumpsets were mounted on the first floor landing and both the boiler and solar collectors were connected to a twin coiled cylinder for generation of zero carbon DHW.

A 3m³ sheet steel pellet store with vacuum feed unit was located adjacent to the building in a wooden weather tight enclosure.

In partnership with WindhagerUK.



Planet Energy Solutions

Renewable Energy Systems

16 Carleton Rise,

Welwyn,

Hertfordshire,

AL6 9RF

Tel. 01438 712398

e-mail planetenergy@btinternet.com

www.planetenergy.co.uk

Planet Energy Solutions

Sustainable energy solutions have been around for many years but increasingly new products and systems are becoming available which involve complex technologies and hence can be easily misunderstood. With an ever growing demand, a wide variety of options available and new products appearing as the market grows, it is important that you can speak to a company that will guide you to the best solution for your applications.

With over 20 years customer facing experience designing, marketing & project managing the installation of thermo-fluid energy systems, from domestic plumbing, through HVAC Building Services and sensitive food & pharmaceutical processing applications, to high pressure steam plant on commercial & industrial heat recovery projects, we have amassed a sound understanding of the need and methods for energy efficiency and how the various technologies can be integrated for optimum output.

We work closely with some of the most highly experienced manufacturers and installers of sustainable energy solutions in the country, each a fully accredited member of the appropriate trade association for their individual technology.

We are constantly studying the market to ensure the latest products are understood by us and, if appropriate, we will seek to include these into our growing portfolio of solutions.



Sustainable Energy Systems Specialists

e-mail planetenergy@btinternet.com Tel. 01438 712398 www.planetenergy.co.uk

16 Carleton Rise, Welwyn, Hertfordshire, AL6 9RF

Solar Thermal, Photovoltaic, Hydro & Wind Power, Biomass boilers, Heat Pumps, Living roofs, Water Harvesting, Steam & Ind. Fluids systems