

CASE STUDY:

Burton Court Hotel
Hereford



**Wye
Valley
Energy**

In partnership with Treco Ltd



199KW WOOD PELLET SYSTEM HEATS STATELY HOME, WEDDING AND CORPORATE HOSPITALITY VENUE

SUMMARY OF PROJECT:

- 199kW wood pellet biomass boiler.
- Distribution pipework including all internal connections to existing heating systems.
- Runs on wood pellets.

KEY OUTCOMES:

- **Biomass Fuel Cost Reduction;** 20-40% versus heating oil.
- **CO₂ Reduction;** 96% or 88 tonnes versus heating oil.
- **RHI Accreditation;** The project is now RHI accredited and generating additional revenue stream for the owners.

FINANCIAL BENEFIT:

- RHI payments and fuel cost savings make the project both sustainable and financially viable.

ABOUT US

Wye Valley Energy is a regionally based business covering Wales and the Midlands and is a Treco partner.

We design, supply, install and maintain a wide range of complete biomass boiler heating systems that will burn logs, wood chips, wood pellets, grain or miscanthus.

BIOMASS BOILERS HELP

- Reduce fuel costs by 50-80%.
- Reduce CO₂ emissions by 96%.
- Gain Renewable Heat Incentive (RHI) compliance.



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**CONTACT US ON
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To Discuss Your Biomass Project

KEY FACTS*

PROJECT INCLUDED

199kW Wood chip biomass boiler system. Flue system, thermal store and distribution pipework including internal connections to heat exchangers also included.

FUEL CONSUMPTION

54 tonnes of wood pellets, per annum, (based on system of similar capacity, in a similar application).

FUEL COST SAVING

Wood pellets; 20-40% versus heating oil. (Source; Biomass Energy Centre)

CO₂ SAVING

Up to 96% or 88 tonnes vs Oil (Source; Biomass Energy Centre)

RHI PAYMENTS

A project of this size would gain approximately £21,965 in RHI payments every year for 20 years, index linked to inflation.

TOTAL PROJECT PRICE

£120,000

PAYBACK PERIOD

- 5-6 years (combining RHI income & fuel cost saving).

*Financial information not specific to this project – figures are based on an average of several typical projects of this size. Current information on RHI payments for guidance only, not to be considered a guarantee).

BACKGROUND

Burton Court is a family run enterprise that offers a truly unique location for a wedding, a private or corporate party, a conference, a product launch or film work.

THE REQUIREMENT

The driver for the customer was the reduction of large oil bills, plus to improve the heating system within the property to give their guests a better and warmer experience during events at Burton Court.

COMPLETE BIOMASS DISTRICT HEATING PACKAGE

Wye Valley Energy supplied and installed the boiler in an attached building, and connected via an RHI accredited heat meter and heat exchanger into the existing systems.

RENEWABLE HEAT INCENTIVE

As well as fuel cost savings of 20-40%, the installation is now accredited into the Renewable Heat Incentive and RHI payments are being received.

The RHI payments and the fuel cost savings ensure that the project is sustainable and financially viable.

BIOMASS HEATING SUMMARY



- 199kW biomass boiler.
- Runs on wood pellets.
- 5m pellet auger to enable a large fuel store to minimise fills.
- 5,000 litre buffer tank.
- 1 class 2 RHI eligible ultrasonic heat meters complete with certification.
- Biomass boiler linked to existing heating and hot water system.
- High efficiency, low energy main system pump.
- Full assistance with RHI application including schematic drawings.
- Commissioning, programming and end user training.



**CONTACT US TO DISCUSS
YOUR BIOMASS PROJECT
01568 616 888**

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