

The Background

Formerly part of the Chatsworth Estate, Elmton Lodge is based in a rural location in Derbyshire. With an expanding onsite business the owners wanted to invest in systems that would both save money and create new revenue for the business by opting for a district heat system. A 90kw woodchip Biomass Boiler for the heating and a 35Kw Solar PV system for the electricity they are able to optimize the Governments RHI and FIT tariffs.



The Biomass Installation

- 1 x ETA 90kw Boiler
- 1 x ETA 2200 ltr capacity Buffer tank
- 1 x purpose built fuel store
- Real time monitoring control system.

The Solar Installation

- 1 x 35kw system
- 140 x Canadian panels
- 1 generation meter 2 x invertors

The Benefits

- Fuel cost reduction £262,028
- RHI Income £271,062 over 20yrs
- 56.5 tonne reduction in CO₂ emissions annually
- Estimated annual Output per annum 30,044 KWH
- 1st Year FIT Payments £3,644.00
- Total savings for the first year (including Exportation to grid) £6,088.00
- Payback 7 years