

case study - biomass

project

Biomass district heating solution for 13 one and two bed residential units, a large farmhouse, a 3 bed barn conversion and a swimming pool, with a combined heating and hot water demand of around 330,000kWh per annum.

location

Northamptonshire

challenge

- Assessing the site specific limitations and requirements
- Determining the project feasibility including technology size and type and financial benefit through the RHI
- Establishing optimum fuel type and location for boiler house & fuel store, to enable efficient fuel handling
- Obtaining and analysing quotations
- Obtaining Ofgem accreditation to the RHI

result

- 160 kW wood chip system deemed to satisfy client's needs, with an estimated internal rate of return of 19% from an initial investment of approximately £160k
- Successful project management of the design stage and RHI accreditation
- Boiler and large fuel store located in an existing Dutch barn, requiring minimal fuel handling
- 5000 litre thermal store installed with approximately 70m of heat main
- Installation successfully accredited to Non-Domestic RHI scheme
- Following three years operation the project has been extremely successful generating approximately £22,000 per annum in RHI income and heat sales. Total annual benefit (including fuel savings but before loan repayments) is approximately £28,000



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