



Feasibility, Design & Implementation Service

Feasibility, Design & Implementation Service for Wood Fuel Heating Installations

We are a leading supplier of high quality controlled wood fuel from Gloucestershire in the South to Lancashire in the North as well as Powys to the West. Increasingly our fuel operations are available throughout the North West including Merseyside and Greater Manchester.

We also provide a comprehensive feasibility, design and implementation service that is available throughout the UK. This includes answering the initial question “is it for me”. If then appropriate the service recommends the system hardware and associated requirements, procurement and project management of the installation. We have been involved in some of the most successful wood fuel heating installations and have established ourselves as one of the foremost suppliers of these heating services. We use our experience and detailed knowledge to provide technical support services to individuals and organisations that may be considering wood heating. Our relationships include leading boiler manufacturer suppliers. The use of wood fuelled boilers has increased significantly in recent years, driven by policy, legislation and economic factors. Increasingly individuals and organisations are not only voluntarily addressing the use of renewable energy to address climate change, but being driven to do so through, for example, the Carbon Reduction Commitment and its consequent tax. The coming planned Renewable Heat Incentive looks likely to significantly reward users of wood fuelled boilers.

We offer a feasibility and design service which enables potential wood fuel users to be armed with the correct and most up to date experience from a company with real life, practical experience of wood heating technology. Our service is focussed on customer requirements. This can be a one-off feasibility study for single projects, or a structured approach to property portfolio holders.

Site Feasibility Assessment

- For individual properties, a feasibility study would include:
- Review of existing boiler and heating capacity,
- Options for locating a wood boiler(s),
- Fuel delivery and storage options, and access requirements
- Fuel supply
- Building integration (existing heating / hot water circuits)
- Sizing and planning underground heating mains where applicable
- Services requirements to the wood boiler plant
- Flue advice
- Economic and Carbon Saving evaluation
- Operation and maintenance requirements
- Renewable Heat Incentive Guidance
- Grant availability
- CRC Carbon Tax guidance

Structured approach for Portfolio holders

Midlands Wood Fuel also offers a structured approach to identifying potentially successful wood fuelled biomass heating opportunities within a property portfolio.

1. **Portfolio Analysis** – with the client, analysing a total property portfolio based on factors such as fuel type, size, usage, heat loads, building type etc in order to identify and rank the most promising opportunities.
2. **Individual Site Assessments** – For each site deemed worthy of further investigation, a site visit will be conducted, and a report produced. The report will identify if a site is suitable for a wood fuel installation and if so, a general outline design proposal – boiler location, fuel storage and delivery, connection to existing heat loads, basic control and mechanical integration strategy, capital cost, operating costs and potential carbon savings.
3. **Performance Specification** - Where the client wishes to act upon a site assessment, we will provide a detailed performance specification on which to base a tender specification.

Wood Fuel Resource Assessment

Many organisations will feel that they have a potentially suitable wood fuel resource arising from their own woodlands or processes. We can conduct woodland resource assessments, plan production, storage and delivery regimes, advice on all aspects of wood chip fuel quality and provide contract wood chipping resources.

Some Example Reference Projects

- Rural Buildings, Herefordshire. 100 kW boiler, district heating network to five buildings
- Hotel, Shropshire – 150 kW boiler
- Retail development, Daventry – twin 150 kW boilers
- Independent School, Shropshire – 240 kW boiler, containerised plant room, district heating network to 11 buildings
- Various large rural properties - 60-150 kW
- Various Schools – 80-500 kW

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