

Biomass – A green alternative to gas, oil & coal

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About Ashwell

Ashwell Biomass is a specialist in providing biomass boiler solutions for businesses, housing trusts, councils, schools, hospitals, farmers and landowners.



Ashwell Biomass (formerly Engineering Services Limited) was established originally as a coal boiler manufacturer/installer and is now one of the UK's leading biomass boiler manufacturers and installers of biomass heating and hot water solutions, with over 200 installations in the UK.

Our products

Ashwell Biomass offers a complete range of biomass boilers, for the domestic, industrial and commercial market:

- Ashwell GreenTec range – 15kW to 300kW
- D'Alessandro range – 20kW to 2MW
- Komforts range – 500kW to 8MW
- Accessories

Ashwell Biomass also produces conversion kits for existing commercial and industrial coal fired boilers, enabling both new and existing clients to benefit from the biomass fuels available. The result is an improved efficiency in excess of 20% as well as lower carbon emissions.



Our services

Services offered by Ashwell include:

- Installation / Design
- Boiler House CAD Layouts
- Containerised Plant Rooms
- Bespoke Fuel Stores
- Full Engineering Facility
- Full B.M.S. Building Energy Management
- Unrivalled After Sales Service & Technical Support
- Service & Maintenance Contracts

Our clients

Our client/client sites include:

- Nottinghamshire County Council
- Rhondda Cynon Taff Council
- Leicester Housing Association
- National Trust
- Duchess of Somerset Hospital
- Makita Power Tools
- Harpers Environmental (UK Waste)



About Biomass

Plant based biomass fuel is considered 'carbon neutral' – it takes carbon out of the atmosphere whilst it is growing and returns it as it is burned. On a sustainable basis, biomass is harvested as part of a constantly replenished crop, maintaining a closed carbon cycle with no net change in atmospheric CO₂ levels. The most common fuel sources used in biomass boilers are:

- Wood chip
- Wood pellets
- Logs
- Firewood

Why Choose Biomass

- Government subsidy available (see RHI scheme below)
- Significant savings on fuel costs compared to other sources e.g. oil, coal, gas and LPG combined with security of supply
- Reduced carbon footprint – lower CO₂ emissions when compared with fossil fuels.
- Environmental benefits - burning waste wood that otherwise might be sent to a landfill site;
- Social benefits - local fuel source widely available resulting in local investment and employment.

Renewable Heat Incentive (RHI) scheme ***NEW***

The UK government has introduced the RHI scheme to encourage the switch to heat generated by renewable sources. This subsidy applies to qualifying biomass installations:

- Up to 7.6p paid per kWh of useful heat
- Tariff is dependent on the size of boiler
- Payable to owner of the equipment
- Payable on a quarterly basis, guaranteed for 20 years.
- Immediate eligibility

See our website for full details

Containerised Bio Heat Cabins

A cost effective boiler house and fuel store solution with shorter lead times and lower costs for planning. They are complete boiler houses incorporating boiler, pumps, pipework, fuel stores and electrical connections.

Design and fabrication services

Boiler house design - for a boiler house layout offering optimum performance

Hydraulic design/ installation - design to ensure appropriate sizing of boiler and integration into new/existing system, crucial for an efficient system.

Fabrication - in-house facilities to design and manufacture bespoke steel fuel bunkers and feeds.

Indicative Boiler Sizes

Approximate boiler sizes for different projects or property types are as follows:

Average 3 Bed House	from 20kW
Farms	from 50kW
Workshops	from 60kW
Primary School	from 100kW
Comprehensive School	from 200kW
Hospital	from 300kW

Accreditations



Boiler Ranges



The GreenTec wood pellet boiler range is manufactured in-house in Leicester. The boilers are Clean Air certified (models 150kW and above) and, being of modular design, offer an extremely versatile configuration of fuel feeds along with a much reduced footprint compared to the majority of biomass boilers. These pellet boilers are available over a range of outputs from 15 kW to 300 kW



Fuel Type		Example Uses	
Wood Chip		Small Commercial/ Industrial e.g. Farm/ School	✓
Wood Pellets		Domestic	✓
Logs		Medium Commercial/ Industrial e.g. Office Block, district heating schemes	✓
Firewood		Large Commercial/ Industrial e.g. Factory, Hospital	X



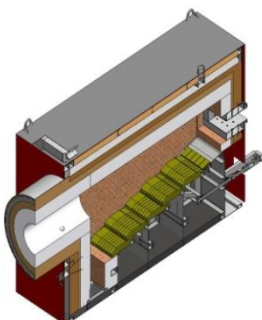
Ashwell Biomass is the exclusive UK distributor of this comprehensive range of biomass boilers. The D'Alessandro boiler range is manufactured in Italy to ISO9001 quality standards and boilers are EN303/5 compliant where applicable. With boiler outputs ranging from 20kW to 2MW and versatility over a large range of fuel types, D'Alessandro boilers are suitable for most applications.



Fuel Type		Example Uses	
Wood Chip		Small Commercial/ Industrial e.g. Farm/ School	✓
Wood Pellets		Domestic	✓
Logs		Medium Commercial/ Industrial e.g. Office Block, district heating schemes	✓
Firewood		Large Commercial/ Industrial e.g. Factory, Hospital	✓
Other			✓



Ashwell Biomass is the exclusive UK distributor and installer of the Komforts boiler range. Komforts provides a range of bespoke boilers and complete boiler house solutions to provide hot water, steam and CHP. The advanced systems are individually manufactured to ISO9001 quality standards and are more suited to medium and large scale industrial/commercial solutions. Available output range from 500kW to 8MW.



Fuel Type		Example Uses	
Wood Chip		Small Commercial/ Industrial e.g. Farm/ School	X
Wood Pellets		Domestic	X
Logs		Medium Commercial/ Industrial e.g. Office Block, district heating schemes	✓
Firewood		Large Commercial/ Industrial e.g. Factory, Hospital	✓
Other			✓

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