

Bowland Bioenergy - *Technical Information*

Pdf 8. GLOSSARY

Arboricultural arisings - Branchwood and other material from street and amenity trees which have been trimmed. This material may be subject to the Controlled Waste Regulations and require a licence before it can be removed; check with the Environment Agency.

Biomass - Short for biological mass or all living things. Used as shorthand for wood biomass.

Clear Felling - All the trees in an area of woodland are cut and utilised. In Britain this is always followed by replanting unless there is an overriding reason not to do so. In this situation an alternative equivalent area may be planted as a substitute.

Thinning - Removal of some of the growing trees within a woodland to improve the quality of the growing stock in accordance with management tables which optimise production throughout the life of the crop. Thinning provides space for the remaining trees to optimise their volume increment.

Energy Units

There are many different units for measuring energy. For wood derived energy the kilowatt hour (kWh), the megajoule (MJ) and their multiples are the principal units.

Energy = power x time

Kilowatt = 1000 Watts or the equivalent of a one bar electric fire

Kilowatt hour (kWh) = the energy consumed by the one bar fire operating for sixty minutes

Joule = 1 Watt per second

Megajoule (MJ) 1 MJ = 1,000,000 Joules

1 kWh = 3.6 MJ

British Thermal Units (BTU) 3400 BTU = 1 kW

Recycled wood - Timber which has already been used for some other purpose e.g. pallets. The wood must be free of contamination to avoid atmospheric pollution. It must also be without metal fastenings etc to avoid damage to the machinery.

Roundwood - Timber in the form in which it was growing before any lengthways cutting has taken place. Usually applied to smaller diameter material.

Slabwood - Material from sawmills generated as a by-product when round logs are sawn into boards.

Thinning woodland - The removal of a measured volume and number of trees to promote the growth and quality of the remaining crop.

Bowland Bioenergy, based in Lancashire, produces dried wood chips – and supplies wood pellets – for wood burning boilers. The company was founded in 2005 and has grown to be one of the North's leading biomass companies. Wood fuel of the highest quality (BS EN 14961) is produced year-round and the company was the first biomass supplier to achieve the prestigious HETAS Accreditation for wood chip.

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