A.W. Jenkinson Forest Products and the Wood Products Life Cycle...

Hardwood or softwood, any species, all grades; A.W. Jenkinson Forest Products makes use of every part of the tree and is intimately involved in the whole Wood Life Cycle from seedlings to wood products; from skip to recycled board products and low-carbon energy. A.W Jenkinson is at the forefront of the 'green economy' ensuring efficient use of our natural resources and is constantly driving to reduce waste and increase efficiency throughout the wood supply chain.

Primary conversion, added value and specialised logistics make A.W. Jenkinson Forest Products a leading player in both the rural and urban landscape - responding effectively and efficiently to the growing need for a responsible, sustainable and profitable green economy.

On-Site Chipping

Whether in a remote Scottish forest plantation, or in an urban parkland location, A.W. Jenkinson Forest Products is fully equipped to provide on-site chipping using its own in-house chipper trucks feeding direct to bulk transport or creating stockpiled reserves for subsequent collection. Much of this fibre resource was previously unrecovered, or has ended up buried in landfill sites. A.W. Jenkinson Forest Products's mobile operations ensures maximum recovery of the woodfibre availability and concentrates the forest products for greater transport efficiencies.

General Transport

Effective use of the A.W. Jenkinson Forest Products general haulage fleet ensures the highest level of loading efficiency with the minimum amount of running 'empty miles'. Wherever possible, vehicle movements are planned and co-ordinated so that a delivery of woodchip or sawdust into a customer's site will be immediately followed up with an outbound load of finished products such as chipboard, bark or paper from the same site to the end consumer. Modern low emission engines combined with effective load scheduling make financial sense whilst achieving the smallest possible CO_2 footprint.

Primary Processing

The demand for renewable wood and wood-based products will only increase as the world's limited fossil-based resources diminish. Within the UK a number of established world class large-scale primary processors are well placed to continue to provide an increasing proportion of our on-going domestic needs, whether as products from Sawmills, Boardmills and Papermills, or as energy from those now investing in Combined Heat & Power supply on a local and national scale. UK produced from UK sustainably managed resources means security of supply and minimised global impact.

Recycled wood fibre:
Enters the Paper and Board making production stream.

Secondary Processing

A.W. Jenkinson Forest Products is a major consumer, processor and distributor of raw timber in the form of sawmill co-products; woodchips, sawdust, shavings and bark. Secondary processing applications include use of bark and woodchips for amenity, landscaping and gardening, as well as for the production of bedding for horses, farm livestock and pets. Bark and woodchips also have specialist applications as natural bio-filters and deodorisers.

Recycled wood fibre:
Enters the Biofuel heat and power production stream.

Everyday Utilisation

'The wood in the trees'. Wood products are a key feature of our daily lives. Aside from the obvious applications in timber sheds, fencing and packaging, wood fibre may be processed into panelboards, such as chipboard, medium density fibreboard (MDF) and orientated strand board (OSB), all of which are used extensively in the manufacture of kitchen, bathroom and bedroom furniture.

Wood products used outside the home include fencing and panels, decking, rails, tree stakes, planters sheds, garages and stables. An increasing amount of new-build housing is now using natural wood for decorative external finishes as well as within the internal structure of roofs, walls and floors.

Wood may also be pulped to produce newsprint and quality printing papers as well as cardboard for packaging and cartons.

A rapidly growing market sector served by A.W. Jenkinson Forest Products is the generation of heat and power. Households heated through the use of traditional wood burning stoves may now find that their electricity is also being generated through low-carbon woodchip fired power plants. Utilising both virgin and recycled wood, these environmentally responsible systems liberate only a tiny fraction of the CO_2 into the atmosphere compared with our aging coal-fired power stations.

Forestry Transport

A.W. Jenkinson Forest Products works in partnership with traditional timber harvesters as well as operating its own chip harvesting and modern efficient timber transport fleet. Roundwood moves from forest to factory and sawmill providing the raw material feedstocks needed to maintain the production of chipboard, fibreboard, paper and card, sawn wood, garden products and renewable energy. Effective use of the specially adapted 'logger' fleet ensures that damage to forest roads is minimised, public road miles are reduced and timber moves safely and sympathetically through rural communities. A.W. Jenkinson Forest Products forestry transport now includes low-loaders for the safe and efficient movement of harvesting machinery between sites.

Timber Harvesting

Plantation Forests and traditional Estate Woodlands are a long term investment which, when managed on a sustained yield basis, can provide an on-going supply of timber and wood fibre that we all require in our daily lives. Harvested trees produce woodfibre and timber; a natural renewable resource upon which we all depend: from newspapers and cereal boxes to furniture and construction, and more recently as a growing source of low carbon renewable electricity generation. UK Forest operations provide valuable rural employment, support downstream wood processing activities and reduce the environmental impact of shipping wood products from across the globe.

The Growing Phase

Once established, forests and woodland are tended to ensure that the trees remain healthy with early natural losses being replaced. Roads, rides and drains are all managed to avoid soil erosion and to prevent windblow on wet sites as the trees gain height. At 15 to 20 years trees are thinned to improve crop quality, encourage bio-diversity and improve wildlife habitats. Revenue from ongoing sustainable timber production (thinnings and fellings) is continually re-invested in the long-term continuity of the total woodland resource in all its forms.

Peat Free Compost and Growing Media

Peat free compost and growing media is produced from the bark removed from logs and roundwood at Sawmills and other primary processing facilities. This, combined with composts produced from green waste derived from parks, domestic gardens and urban tree management results in a finished blended product that is the ideal medium for use in tree nurseries, when planting out new woodlands, or when replanting after felling mature trees.

Life-Expired Wood

Waste wood that is no longer fit for purpose, or of a type unsuitable for recycling into panelboard products, still has a useful energy content that can be realised through burning in modern environmentally approved combined heat and power combustion plants. A.W. Jenkinson Forest Products operates a growing number of wood waste processing facilities handling large volumes of waste wood with which to serve both the panelboard and energy sectors. The general principle being that the carbon remains 'locked' into the wood for as long as possible before realising its energy as a biomass fuel.

Wood Recovery

A.W. Jenkinson Forest Products recycling operations ensure that the waste wood is collected efficiently, is cleaned and screened, metals are extracted so that the recovered wood can be re-delivered to the Boardmills and new chipboard panels produced. This process ensures that UK manufacturers remain globally competitive, jobs are safeguarded, landfill is reduced, carbon footprint from imports is minimised and domestic stocks of sustainable virgin fibre go further in the added-value supply chain.

Wood Re-Use and Recycling

The common practice of recycling old newspapers and magazines to 'save trees' has been around for decades, but many remain unaware that every other form of wood and plant matter can and should be recovered, re-used and recycled and not sent to landfill. Garden and parkland green waste and woody arisings from both municipal and commercial collections is composted down by A.W. Jenkinson Forest Products to produce 'peat free' growing media and soil improvers. This, when added to composted bark also processed by A.W. Jenkinson Forest Products following collection from sawmills and primary processors, is now recognised by professional growers as a viable alternative to natural peats formed over many years in upland bogs.

Modern Boardmills utilise increasing quantities of waste wood derived from old pallets and packaging, discarded furniture and wood from construction and demolition sites.