

Raddery Sawmill is a successful sawmilling business, ideally placed to diversify into woodfuel production and supply. With a woodchip fired boiler already providing heat and hot water for the office and house, the owners had a good practical knowledge of the benefits of woodfuel heating. A local, reliable woodfuel supply has allowed the market in Easter Ross to go from strength to strength and Raddery Sawmill now supplies local schools, offices and community buildings with woodfuel. Support from EU ERDF, HIE Inverness & East Highland and Forestry Commission Scotland to purchase a new wood chipper and crane, has enabled the business to expand to meet the growing local demand.



Facts and figures

Boiler: Ala-Talkarri Veto

Boiler output: 30 kW

Fuel hopper: 3.5m³

Fuel usage: 30 tonnes p/a

CO₂ savings: 24 tCO₂ p/a

SUPPLY

Woodchip Production: Heizohack
Woodchipper driven by PTO from a tractor

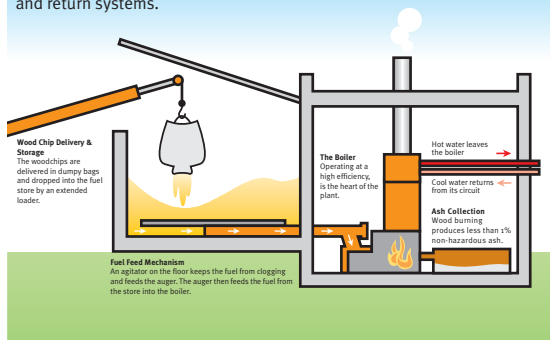
Timber collection and woodchip delivery:
Road vehicle trailer with centrally mounted
Palfinger PC 3300B crane for delivery of
woodchip in bags, or bulk delivery in tipping
trailer

Raddery Sawmill

Sustainable woodfuel supply and heating

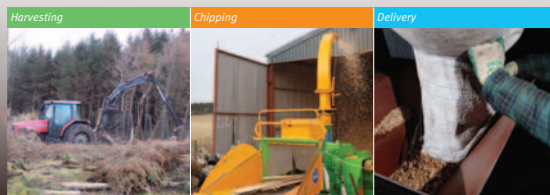
How does a woodfuel boiler work?

Modern installations are fully automated and require minimal attention. The key components are the boiler, fuel handling system, and the flow and return systems.



The fuel supply

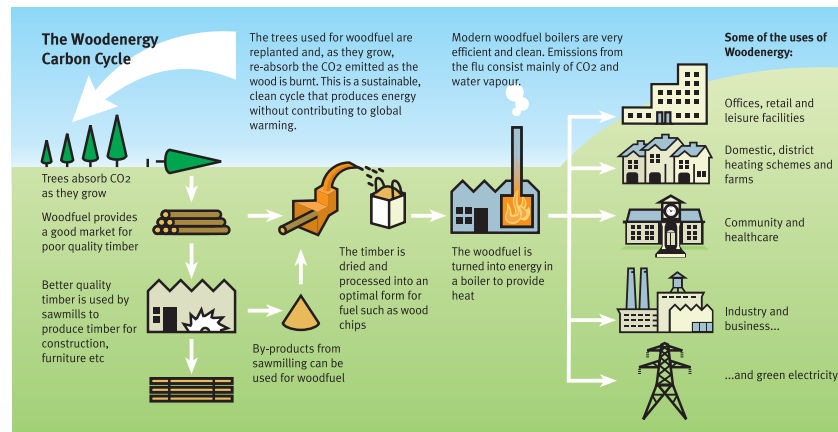
Raddery Sawmill produces naturally conditioned woodchips for business and domestic woodfuel systems. The raw material comes from slabwood and offcuts from the company's sawmilling operation, while further supplies are sourced from local woodlands. The wood is air dried and chipped using a Heizohack wood chipper, and the chips are then delivered in bulk either in 1m³ bags loaded into customers' hopper by crane or tipped directly into the hopper.



Sustainable Heating with

WOODENERGY

SCOTLAND



What is woodfuel?

Woodfuel is a modern, clean and environmentally friendly alternative to fossil fuels, and is an economic solution for the heating needs of public buildings, industry and business premises, agricultural buildings and households. It comes in many forms including logs, pellets (made from sawdust), and woodchips.

Woodfuel is widely used throughout mainland Europe for heating and power generation and is Europe's most important source of renewable energy providing 51% of all renewable energy.



Why biomass?

Supporting the local economy

- local income stream
- more local jobs than any other renewable energy alternative
- new market for forestry and farming industries
- cheaper fuel prices

Environmental Facts

- renewable energy
- clean and safe to store
- promotes sustainable forest management and so can benefit wildlife

Social Benefits

- local employment
- communities can contribute to their own future energy needs
- helps reduce fuel poverty