

Russwood is a successful sawmilling business, supplying a range of products to the specialised building and construction industries. Russwood identified a need for on-site heating of their workshops and decided to install a woodfuel heating system using their own resources for heat production. Support was provided by EU ERDF funding, HIE Inverness and East Highland and Forestry Commission Scotland to establish the woodfuel supply and install the heating equipment. A Veto boiler, fuelled by the sawmill's slabwood, now provides a cheap source of heat energy for the business.



Facts and figures

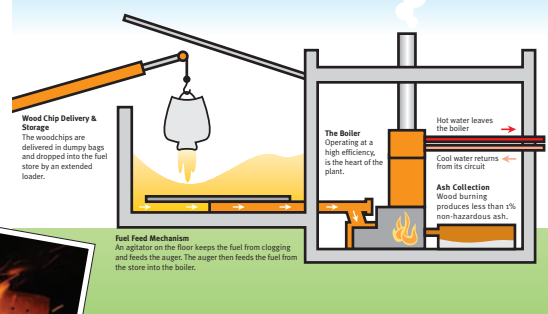
Boiler: Ala-Talkari Veto
Boiler output: 120 kW
Fuel hopper: 6m³ capacity, woodchips delivered to the boiler by Veto Maxi fuel feed mechanism
Fuel usage: 100 tonnes p/a
CO₂ savings: 63 tCO₂ p/a
SUPPLY
Woodchip production: onsite using Heizohack HM10-14-400 woodchipper

Russwood Woodfuel

Sustainable woodfuel supply and heating

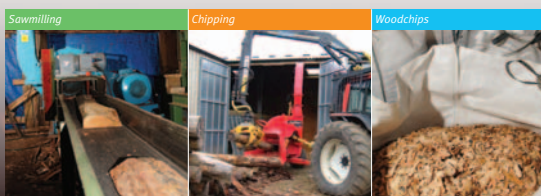
How does a woodfuel boiler work?

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

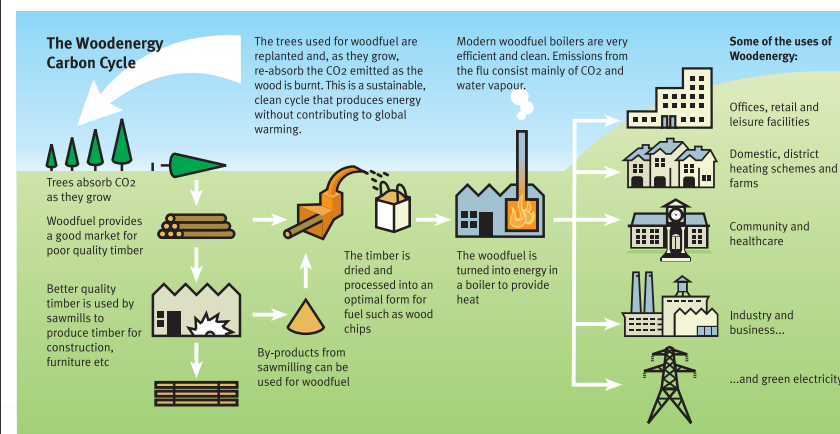
Slabwood is produced as part of the sawmilling operation, providing a constant source of timber. The wood is then air conditioned to reduce the moisture content and chipped using a Heizohack HM10-14-400 woodchipper which will chip logs up to 230mm diameter. The chips can then be loaded into the hopper, providing a cheap, reliable source of energy using the sawmill's own resources.



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

the future for Scotland's wood energy is at www.usewoodfuel.co.uk