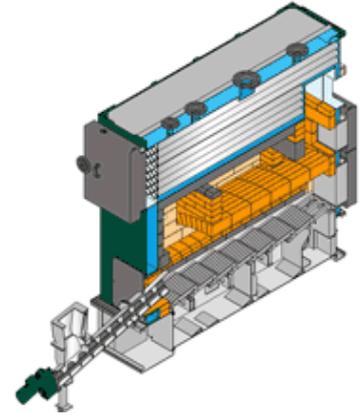




JELD-WEN



# Jeld Wen

## PENRITH

JELD-WEN is a global manufacturer of timber products operating in 20 countries with five facilities in the UK - their site at Penrith in Cumbria produces a massive 35,000 doors every week. With such intensive manufacturing JELD-WEN was keen to reduce their waste and lower emissions and they quickly identified biomass as an ideal technology.

Together Nifes Consulting and Rural Energy created a holistic solution that included two 990kW Herz industrial biomass steam boilers to provide steam to power both the manufacturing process and heat the plant.

This large scale project involved the build of a brand new steel framed plant room to house the new boilers, a two-storey office complex, two new flues and fuel delivery system. As principle contractor, Rural Energy was also responsible for keeping the site operational - carefully managing the removal of the old wood boiler and switch over to the new Herz boilers whilst keeping the process steam operating.

The primary source of fuel for the boilers included sawdust and timber waste generated by the manufacturing plant. In collaboration with Nifes and JELD-WEN, Rural Energy designed a system that would meet new emissions standards and suit the manufacturing plant. The large steam boilers were customised to include a specially designed moving grate combustion chamber, modified to suit dusty fuel. With a continuous self-replenishing fuel source, a large shredder was also installed at the factory to enable the reject wood and timber waste product to be chopped up and transported to the main silos for storage.

The project is now in its final stages with the site now being commissioned and completion planned for the end of October.

This new system will help JELD-WEN to improve its sustainability credentials reducing both their particulate emissions and carbon footprint. In addition the company will also benefit from a cut in their running costs as well as an additional income from the Renewable Heat Incentive (RHI) scheme.

### CASE STUDY FOCUS

2 x 990KW Herz Industrial Boilers

#### System Summary:

Boiler Type: Herz Industrial Boiler

Fuel Type: Waste Wood from Production Process

Fuel Store: Energy Centre

#### Working with:

Principle Contractor: Rural Energy

Consultant: Nifes Consulting Group

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