

Byworth Wood Pellet Boiler

- **Local authority area:** Hull City Council
- **Stakeholders:** Green Frog Power, CO2Sense

Summary

Organisations in Yorkshire and Humber are discovering the environmental and economic advantages of woodfuel, thanks to the UK's first industrial-scale demonstration wood pellet fuel boiler, commissioned by CO2Sense Yorkshire.

Background

- The CO2Sense Woodfuel Programme supports organisations in the implementation of woodfuel schemes and in engineering conversion of coal and oil boilers to run on woodfuel.
- As well as funding support and expert advice, the programme provides information on best practice in woodfuel installations, including commonly seen problems and how to avoid them.
- With rising energy costs, woodfuel offers a sustainable, secure and cost competitive alternative to fossil fuels, helping organisations to meet obligations such as the Carbon Reduction Commitment, and qualify for payments under the forthcoming Renewable Heat Incentive.
- The £300,000 boiler, built by Byworth Boilers of Keighley, was commissioned by CO2Sense Yorkshire to allow organisations to 'try before they buy' – gaining experience and confidence in woodfuel technology before making a long-term commitment.

Method

- The unit, a two Megawatt steam boiler, is available for lease for up to six months by organisations within Yorkshire and Humber.
- It has been built into a purpose built container as a mobile unit making it easy to install on site, and is supplied with a separate fuel silo.
- The boiler is especially suited to organisations with a high and steady heat demand, such as hospitals, swimming pools and certain industrial processes.



Result - Key outcomes and impact

- With woodfuel boilers being a relatively new and unknown technology in the UK, many organisations are reluctant to invest in a large capital outlay without prior experience.
- This lease boiler allows organisations to see for themselves the benefits and reliability of woodfuel, and so gain confidence in using the technology.
- Having the boiler available will encourage organisations in the region to install a woodfuel boiler of their own, both through direct lease of the boiler and through shared learning resulting from the leases.

Key contact

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