

Bioenergy in Use

Nethybridge Centre – Biomass Powered Small District Heating System

Abernethy Trust is a Christian education charity who runs the Nethybridge adventure centre in Scotland. In 2015, they choose to replace their inefficient electric heaters with a district heating system powered by a 70 kW biomass pellet boiler to heat a group of three holiday cottages and two staff cottages.

Dunster Energy installed the system along with a bulk pellet biomass store, an automated feed system and a 1,500-litre thermal store, allowing the boiler to operate at peak efficiency even when demand is low in the summer. The networking of the controls ensures that water is only pumped around the system when required, further reducing losses, and allows remote monitoring of the system over the internet.

Supported through the non-domestic RHI, the district heating system has meant the site is able to reduce their carbon emissions by more than 30 tonnes CO₂ equivalent per annum.

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