

Invicta Clean Energy

Dairy and two houses supplied with heat and hot water by a 40kW wood gasification boiler

Biddenden, Kent

By installing a biomass boiler this farm has reduced its energy costs. The boiler supplies heating and hot water to a dairy and to 2 houses from a central plant room via radial heat mains.

The heat main is served by a 40kW EcoAngus Origno 200 wood gasification boiler linked to a 2,000 litre Akvaterm accumulator tank. Transfer of heat from the boiler to the Akvaterm is controlled by a Laddomat 21-60 load charging pump and valve, helping to maintain efficient combustion.

In the dairy two robotic milking machines are automatically washed 3 times a day. This water is heated to 90°C by a heat exchanger connected to the heat main.

The installation is registered to receive Renewable Heat Incentive (RHI) payments under the small biomass tariff, currently set at 8.3 p/kWh. It is estimated that the installation will generate payments in the region of £4,500 pa (at current tariff rates).

Sontex heat meters measure the heat used in each building and the heat generated by the boiler. These figures are reported quarterly to OFGEM.

Logs are sourced locally at negligible cost and seasoned on site.



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