Invicta Clean Energy

Two large detached properties heated by a 130 kW log gasification boiler via a heat main

Selling, Kent

The thinnings from a commercial fruit growing business are used to heat a grade 2 listed Tudor manor house, a converted Oast house and an outdoor swimming pool. Heat is distributed via a radial heat main from a nearby listed barn.

The heat main is served by a 130 kW EcoAngus Super wood gasification boiler linked to a 10,000 litre accumulator tank. Transfer of heat from the boiler to the Akvaterm is controlled by a Termovar load charging valve, helping to maintain efficient combustion. A differential temperature controller switches off the charging pump if the boiler output temperature falls below the temperature in the accumulator.

The existing gas boilers have been retained. Their controls have been interlinked so that if the temperature in the accumulator falls below its set point, the gas boiler is automatically fired up, Temperature displays in each of the houses allow the owners to monitor the current temperature in the upper and lower parts of the accumulator. This alerts them if the boiler needs to be recharged with logs.

The installation is registered to receive Renewable Heat Incentive (RHI) payments under the small biomass tariff, currently set at 8.6 p/kWh. Itron heat meters measure the heat used in each building and the heat generated by the boiler. These figures are reported quarterly to OFGEM.

REAL RENEWABLE ENERGY ASSURANCE LISTED

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