



Invicta Clean Energy

Large listed Tudor house and converted stables heated by a 100 kW wood gasification boiler

Headcorn, Kent

Over many years this large, listed house has proved extremely costly to heat with oil, with limited scope for improving its energy efficiency. By installing a wood gasification boiler the cost of fuel has been reduced dramatically. Taking into account RHI payments, the payback on investment is expected to be between 3 and 4 years.

A 100 kW EcoAngus Super boiler is installed in a shed near to the house. This connected to a 5,000 litre Akvaterm accumulator tank which serves a buried radial heat main supplying heat to the house and also to a converted Stables. Because multiple houses are served by a single boiler the project qualifies for RHI Phase 1.

Transfer of heat from the boiler to the accumulator tank is controlled by a Laddomat 21-60 load charging pump and valve, helping to maintain efficient combustion.

The installation is registered to receive 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 £9,800 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.



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