



# Invicta Clean Energy

## **Straw bale holiday cottages and farmhouse heated by 60 kW log gasification boiler**

## **Stelling Minnis, Kent**

These 3 straw bale cottages have been constructed as holiday lets. A log gasification boiler supplies heating and hot water for the cottages and also replaced the oil boiler that used to serve a poorly insulated farmhouse.

A disused garage has been converted to serve as a boiler room housing a 60 kW EcoAngus Origno boiler. This is connected to a 3,000 litre accumulator tank which serves a buried radial heat main supplying heat to the cottages and the house. Because multiple buildings are served by a single boiler the project qualifies for payments under RHI Phase 1 for 20 years.

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. A differential temperature controller automatically switches off the charging pump if the boiler output temperature falls below the temperature in the accumulator.

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.



Invicta Clean Energy Ltd.  
59 West Street, Faversham, Kent ME13 7JH  
Tel No: 01795 539436  
[info@invictacleanenergy.co.uk](mailto:info@invictacleanenergy.co.uk)  
Company No: 5930025 , VAT No: 912 8537 20

