

# CASE STUDY



## Tollgate Farm– New Build Project

### Description:

A Four property development to meet Code 3 of the Code for Sustainable Homes

### Renewable and Energy Saving Technologies:

Biomass and heat pumps were evaluated to provide space heating and hot water at Tollgate Farm.

### Study Outcomes:

After evaluation, it was concluded that a Ground Sourced Heat Pump (GSHP), two Air Sourced Heat Pumps (ASHP) and three Biomass boilers were viable for the site.

### Annual benefits of Evaluated Technologies

<u>Renewable Technologies</u>	<u>Financial Savings</u>	<u>Potential RHI Income</u>	<u>CO<sub>2</sub> Savings</u>
<u>50 kW Biomass boiler</u>	£510.47	£2,637.16	50,52 kg
<u>14 kW Biomass boiler</u>	£233.73	£1,110.15	5,647 kg
<u>25 kW Biomass boiler</u>	£374.65	£1,680.28	5,359 kg
<u>11 kW ASHP</u>	£350.70	£761.01	1,855 kg
<u>7 kW ASHP</u>	£391.83	£817.39	2,550 kg
<u>12 kW GSHP</u>	£822.85	£1,260.16	1,714 kg

*If you are interested in renewable energy technologies, want to know whether your site is suitable and how much energy & CO<sub>2</sub> emissions you could save contact our office on 01953 798112.*