

CASE STUDY



Surlingham Manor

Description:

A renewable technology project aiming to reduce energy costs and carbon emissions on a listing building and its outbuildings.

Renewable Technologies:

Several technologies were evaluated including an oil boiler running on liquid biofuel, a biomass boiler running on wood chips, wood pellets or logs, a wind turbine, solar PV and solar thermal.

Study Outcomes:

After evaluation, it was concluded that all technologies except for the solar thermal were viable for the site.

Combined annual benefits of a 6.0 kW wind turbine, 4.0 kWp Solar PV and a 65 kW biomass wood chip boiler

<u>Renewable Technologies</u>	<u>Financial Savings</u>	<u>Potential RHI/FIT Income</u>	<u>CO₂ Emissions saved</u>
<u>6.0 kWp Wind Turbine</u>	£1,283.10	£2,940.00	5.4 tonnes
<u>4.0 kWp Solar PV</u>	£335.68	£1,189.00	1.4 tonnes
<u>65 kW Biomass boiler</u>	£3,437.00	£7,453.85	36.1 tonnes

If you are interested in renewable energy technologies, want to know whether your site is suitable and how much energy & CO₂ emissions you could save contact our office on 01953 798112.