



651

ENERGY STATEMENT

It is estimated that the houses will use energy at the rate of 50kWh/m²pa.

The size of the house is 99.4m²

Total power to be used will be 50 x 99.4
4970kWh/a

This equates to 26.2Gj/pa

10% of this equates to 2.6Gj/pa

It is proposed to use solar collectors as manufactured by Alpha Heating Innovation. They work by pre-heating the hot water and storing it in a tank that also serves the central heating and hot water system. This is the most efficient way of providing on-site renewable energy.

A single 2.5m² solar cell is designed to provide 3.5 Gj/pa when connected to a 90 litre storage tank. This exceeds the 2.6 Gj/pa target.