

Perry Cottage
 Hen Parks
 West Felton
 Oswestry
 SY11 4HE

Measures that have been undertaken

The self build new house is replacing a cottage in very poor condition. Initial plan was 100m² for £100,000 low impact house with low maintenance for 100 years, we overshot the first two figures by 20%; Principle features include low u-values floor 0.14, walls 0.12, roof 0.07W/m²K; single masonry wood stove as only heating; solar thermal in accumulator tank linked with stove, short + highly insulated pipe runs; mechanical ventilation and heat recovery system (96% efficient), rain water collection; AAA appliances;



The effect these measures have had.

Building control submission was made before April 2006, which showed average total house u-value at 0.25W/m²K. Improvements made in the mean time have not been incorporated in this figure. An energy performance figure will be produced when the house is finished..

How the measures have performed

Only partially occupied since October 2011, so can't give a full report yet. Very easy to keep warm during winter with solar gain and stove. In old cottage used thousands of pounds for heating oil, now probably require 9m³ of firewood and will be much more comfortable.

Other measures planned but not yet undertaken

Wiring for solar PV already in situ, consider fitting a system on VAT refund of build.

Measures considered and not taken up

Initially planned to have a passive ventilation system, but over the years of construction was persuaded that a Mechanical Ventilation and Heat Recovery system is more efficient.

