CASE STUDY

Nunney Road – 3 Bed
Edwardian Semi



This case study can be found online here

'Big' Insulation works

Glazing

Renewables: heat

Water management

Lifestyle change

Lighting systems & electricals appliances

Renewables: electricity

Sustainable building materials

Low-cost improvements

Matt has lived in his 1910 solid-stone semi for six years. When the family moved in, the home was badly insulated in both the walls and the loft, and winter bills were high to keep the house warm.

Their motivation for change was 50% climate change, 30% money and 20% comfort, and they drew on knowledge from work at Frome Town Council alongside advice from professionals to decide what to do.

Energy Efficiency Measures

Insulation: Ground-floor insulation fitted throughout, plus internal wall insulation in the extension.

Ventilation: New vents added to the extension to maintain air quality.

Heating: Gas boiler has been replaced with an air source heat pump.

Glazing: Double glazing.

Draught proofing: DIY draft excluders fitted.

Solar PV: was installed in 2026, with 10 kWh of battery storage.

Water conservation: A water butt in the garden.

Lifestyle/behaviour changes: all food waste is composted on site.

Annual Energy Consumption: Total energy consumption is around 3,520 kWh per year. The EPC rating was D (this will likely have increased with the changes made)

Installers/Contractors: Building work was carried out by 345 Construction (Steven Lewis, Frome). The air source heat pump was installed via Thermly.

Learning: The family didn't realise they would need to change their radiators when they installed the heat pump — a reminder that heat pumps run at lower flow temperatures, and existing radiators often need upsizing to compensate.