

# Green Homes Sheffield Host






## Further information

Host address:	49 Steade Road Sheffield S7 1DS
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### More information about this home

A 5-bedroomed passage-terraced town house built in 1887, in the Nether Edge conservation area (which limits changes that can be made to the front of the house). We have improved the SAP rating from E to D and are planning changes which should achieve C or even B. The energy costs are currently around £1800 pa, most of that is winter space heating - the behaviour of the residents is just as important in reducing our energy use. The house is much more comfortable to live in than it was, and the attic level is transformed.

### Low carbon measures on show

-  **Low-cost improvements:** Insulation (Kingspan) has been installed between the joists under the whole of the ground floor (2004), and the cellar-head draught-proofed and insulated (2007).
-  **'Big' insulation works:** The house was re-roofed in 2011 and this included installing insulation to meet or go beyond building regs standard. The insulation is a mixture of Kingspan type on the sloping ceilings and Inno-therm recycled cotton wherever possible.
-  **Glazing:** Triple-glazed veluxes were installed, a sliding sash window refurbished with thin double glazing panels, and a conservation rooflight used to meet conservation area standards. Sliding sashes throughout the house were refurbished using the Ventrolla draught-proofing system (2002), but are still single-glazed.
-  **Renewable electricity:** We have 1.53kWp of East-facing PV.
-  **Lifestyle changes:** We live as a co-op which reduces our energy use and consumption.

### Personal insights

The difference in comfort in the attic rooms is huge - the radiators only ever need at most a low setting, (The frost outside the veluxes is really beautiful.) The cost and disruption of doing the work was also huge, but given that the house needed re-roofing, it was the right way to do it. We used an architect plus an energy consultant to specify the work, but we still relied on the skills and diligence of the builder, which to be honest did not always match up. Earlier underfloor insulation work also helped, but we still need to improve draught-proofing and controlled ventilation to get full benefit. We want to upgrade all the windows further.



We want to complete internal insulation of the passage wall, but doing this internally will be tricky by the stairs and disruptive in the kitchen. We plan to get a new boiler and solar water heating, borrowing money from Ecology Building Society under their C-Change discount offer.

