



BRISTOL ENERGY NETWORK

Open Home Profile

Homeowner Information

- **Name:** Mary Curran & Hugo Smadja
- **Contact :** @ecoeastonreno
- **Location:** 25 York Road, Easton, Bristol

Home Overview

- **Home Type:** terraced house
- **Year Built:** 1900
- **Size:** 110m² / 3 bedrooms + 1 bathroom + 1 ensuite
- **Renovation History:** house bought December 2020 and internal insulation started immediately. Rear ground floor extension Nov 2021. Loft insulation December 2021. External wall insulation and Air-Source heat pump installed March 2022. Heated skirting boards fitted September 2023. Loft conversion April 2024

Green Features

Energy Efficiency

- **Insulation:** front of house: internal insulation of 60mm wood fibre board + lime&hemp plaster

Rear ground floor extension: a mix of wood fibre board, wood fibre flex and cellulose (thermofloc) to approx 200mm. Also used porotherm bricks and cork cladding.

Rear 1st floor: external wall insulation 100mm wood fibre board

Rear dormer: wood fibre board and wood fibre flex, around 200mm, and cork cladding.

Chimneys filled with perlite.

- **Windows and Doors:** front and rear 1st floor: uPVC double glazing from 2010 before we moved in.
Rear extension and dormer/pitch roof: aluminium clad timber frame windows and door; all triple glazed and triple glazed skylights.
- **Heating System:** Air Source Heat pump Valiant Arotherm 8KW with underfloor heating throughout ground floor and heated skirting boards for 1st floor and loft. 3 room thermostats and 2 smart valves
- **Cooling System:** none
- **Lighting:** LED and some Hue smart system for finer controls
- **Appliances:** Samsung fridge: C (new new rating), Bosh dish washer: D (new rating), AEG oven: A+ (old rating), Samsung washing machine:A (new rating)
- **Smart technologies:** Agile Octopus tariff

Renewable Energy

- **Solar Panels:** none
- **Battery Storage:** none
- **Other Renewable Sources:** none

Indoor Environmental Quality

- **Air Quality:** low VOC paints (Atelier Ellis, Little Greene, COAT)
- **Ventilation systems:** passive wall vents in all “dry” rooms and active exhaust in kitchen, utility room, and bathrooms (ultra quiet and low consumption Aereco V4A premium)

Performance and Savings

- **Energy Savings:** can't be compared as no central heating before we moved in and renovate. Total consumption: ≈ 5000 kWh per year @ less than 20p per unit thanks to agile octopus (around £100 per month of electricity and £0 gas)

- **Carbon Footprint Reduction:** (Estimate of CO2 reduction - this can be a useful tool to use <https://www.carbonfootprint.com/calculator.aspx>) Total House Footprint = 1.13 tonnes of CO2e
- **Financial Savings:** (Utility bill reductions, payback period for green investments)

Future Plans

- **Upcoming Projects:** (Planned upgrades, additional sustainability measures)
- **Long-Term Goals:** (Goals for further reducing environmental impact)