

# 18 Winterton Way Shoreham-by-Sea BN43 5RE

## Overview

**Owners:** Mark and Lucy Poston

**Type:** detached house, converted bungalow

**Age:** Original property built in 1950s, converted in 2021

**Beds:** Four

**Walls:** Brick cavity insulation, exterior insulation and timber cladding

**Area:** footprint approx. 14.5m x 8.3 so, 120sqm ground floor and approx. 80sq m first floor

**Residents:** Family of four

## Key features

Double insulation

Air Source Heat Pump

Air circulation system

## Introduction and approach

This stunning bungalow conversion has used materials largely chosen for low environmental impact, whilst still being stylish and modern. Come and see what's possible with a lot of imagination and careful consideration of how to save money as well as reducing your carbon footprint. It's a prime example of how a very well insulated envelope can make such a difference, and is a vital component of any eco open house design.

## Energy efficiency measures

### Heating and hot water

Air source heat pump (though would have a different system if we had done this more recently)

Air circulation system - Air flow in and out. Vents in the roof. Outgoing air warms incoming air.



### Insulation

**Walls** - Lower floor cavity brick, upper floor timber, entire property double insulated and wood clad

**Windows** - Standard double glazing units

**Roof** - Reconstituted slate tiles to lower environmental impact

### Renewables and low carbon technology

Air Source Heat Pump

### Electricity

Just changed over to Octopus so only have a very short history, therefore unable to provide accurate figures at this stage.

## Other sustainable measures/ lifestyle decisions

Maximising light.

Aims to maximise the integration of home and garden.

Maximise useful storage for beach location.

Ensure that the materials survive the coastal location.

**Air circulation system:**

Domus - HRXE-AURA - Domus Ventilation

[https://domusventilation.co.uk/catalog\\_products/hrxe-aura/](https://domusventilation.co.uk/catalog_products/hrxe-aura/)

**Architect:**

Richard Morris



## Lessons learned

Learning about air source heat pumps. I'd do a better job on insulating the pipe work and install a far smaller heat pump. I would not put underfloor heating upstairs.



## Professionals/materials

**Double Glazing:**

Sunflex aluminium windows and Evolution 70 plastic

R&D Goatley

<https://www.randdgoatley.co.uk/>

**Reconstituted slate tiles:**

BMI Redland Cambrian Interlocking Slate 4701

<https://www.jjroofingsupplies.co.uk/bmi-redland-cambrian-interlocking-slate-4701/>