Welcome to 361 Green Doors, on Saturday the 14th and Sunday the 15th of September twelve families in north Devon are opening their doors to showcase ways that they have made their homes more energy efficient, comfortable to live in and cheaper to run…

17 Cutterburrow Lane
recently built three storey house with air source heat pump

A recently built (2009), three-storey mid terrace family home with heating and hot water produced by an air source heat pump. The home is also well insulated, air tight and is fully double glazed to reduce heat loss and maximise the efficiency gains from the heat pump.

Opening Times:
Sunday 15th September: 10.00 – 16.00
Maximum 6 people per tour
Pre-booking is required

Key Features
• Air-to-water heat pump located in the garden
• Air tight
• High levels of wall and loft insulation
• Double Glazing
ABOUT THE REFURBISHMENT WORKS
The property built by housing developers Bellway Homes is part of a new development of 85 properties which includes affordable homes. The estate was built on a former brownfield site as part of a section 106 agreement in relation to the development of a supermarket. The property has a very good thermal transmittance measure for the walls, floors and roof which means there is a low rate of heat loss. There is also a good level of air tightness which was tested through an air permeability test. This is beneficial to the efficient working of the air source heat pump. The air source heat pump extracts heat from the outside air in the same way that a fridge extracts heat from its inside. It can get heat from the air even when the temperature is as low as -15°C. Heat pumps have some impact on the environment as they need electricity to run, but the heat they extract from the ground, air, or water is constantly being renewed naturally.

BUILDING DETAILS
Age: 2009
Type: Mid terraced House
Construction: Cavity wall
Years in residence: Four
Residents: Four
Bedrooms: Four
Other rooms: Three

ENERGY PERFORMANCE

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<th>Energy Efficiency</th>
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DETAILS OF IMPROVEMENTS UNDERTAKEN

Fabric improvements
Insulation:
Insulation in the loft, walls and flooring to a high level reducing any heat loss.

Draft Proofing:
Composite door and double glazing help to reduce any heat loss and drafts.

Glazing:
Fully double glazed throughout the property.

Electricity and Water Efficiency
Low energy lighting:
Low energy lighting throughout the property

Water Saving:
Low flow fittings help to save water

Space and Water Heating
Heating Appliances:
Mitubishi 9kWh air source heat pump

Space Heating Controls
There is a thermostat and programmer which help to control the temperature of the property.

Water Heating:
As space heating

Microgeneration
Air Source Heat Pump