

## 62 Northcourt Road Worthing BN14 7DT

### Overview

Owners: Alesia & Duncan Moulton-Perkins

Type: Victorian mid terrace house

Age: 1905

Bed: 3

Walls: Brick

Area: 96m<sup>2</sup>

Residents: 2 adults, plus AirBnB guests

### Key features

Electric car (possible rides)

Electric car charging post

External solid wall insulation

Solar PV

### Other features

Natural materials

Condensing boiler

Heating controls

Double glazing

Low energy appliances

Low energy lighting

### Introduction and approach

By 2040 no more petrol and diesel cars will be produced or sold, which means potentially, anyone born in the next few years may only ever drive a carbon free powered car.

What would make you decide to buy an electric car next time around?

If you are interested, have questions, or are just intrigued to see or sit inside an electric vehicle, come to No 62 and see their Hyundai Ioniq, one of the latest models to be released. You may also have the opportunity for a 15-min ride in it too. It drives like a dream, its nippy, powerful, smooth, and so quiet, "I'll never go back to a petrol car", says Alesia. It also has plenty of technology inside, including Apple Car Play.

It's been on plenty of short journeys to Guildford and back on one charge and even had a visit to York and back. It also only takes 4 hours for a full charge on their overnight freely installed charging point.



However, if cars are not your thing, but solar, solid wall insulation or other house hold energy efficiency measures are, there is still plenty to see and learn about here. There are very few examples of External Solid Wall Insulation that are available to see and for those homes where insulation in the loft and cavity wall is not an option, then seeing first-hand what it is like to live in a home that has extensive Solid Wall Insulation is a rare opportunity.

Don't miss this forward thinking, future proofing lifestyle home here!

### Energy efficiency measures

#### Insulation

##### External solid wall insulation (SWI)

Alesia and her husband decided that solid wall insulation (SWI) was the right choice for them and after a lot of research, particularly to get the right amount of investment, they decided to install it around the entire house, except for the front facia. The difference has been very noticeable, and their level of home comfort has been worth the effort. They managed to get a lot of funding through Green Deal and

while those options may not be available now, listening to Alesia on how they worked through the process, is detail well worth learning about if you are considering this type of insulation.

SWI is a wonderful way to literally blanket your home with a layer of insulation, and sometimes cladding can not only improve the look of the house but also add financial value as well as warmth. Here, comfort internally was the main driver and the rationalisation to go ahead and get the SWI. It was expensive, but in the long term whether Alesia and her husband stay or not, it is an excellent job well done and many of us may well have to face doing this at some time in our lifetimes.

The SWI makes the house look newly renovated and enables a very ambient temperature within the home.

Alesia did a lot of research and was eventually able to gain Green Deal funding which helped to knock £6100k off the purchase price. She also had a Green Deal assessment to help her understand what could be achieved in her home from an energy efficiency perspective.

## Heating

### Condensing boiler & heating controls

There is a condensing boiler with heating controller installed here

## Electricity

### Low energy appliances

The house has many A+ rated energy efficient appliances

## Lighting

### Low energy lighting

All the lightbulbs are energy efficient

## Double glazing

The house is fully double-glazed front and back

## Renewables and low carbon technology

### Solar PV

As you look at the house you will notice the solar installation on the front facing roof. There are 6 panels installed generating 1.8kw of electricity, which have resulted in a complete change of lifestyle habits for the residents at no 62.

When the panels are generating during daylight hours they have switched to running their electrical appliances during the day, for example washing machine, dish washer etc. They even run them sequentially to ensure that every watt

of electricity used is free from their own roof panels.

## Other sustainable measures/ lifestyle decisions

### Electric car and charging post

Alesia and Duncan have gone through installing 2 charging posts and are experts on how to get free funding to help you to take the next step in your electric motor journey.

If you are new to electric cars, they are much better than you might think. If you can organise a road test in one, this comes highly recommended as they are very quiet but surprisingly high performance. Distances achievable on just one charge can exceed 200 miles today, so if you are thinking about buying a new run-around car, have a look at electric vehicles as well as petrol and diesel. The cost per mile to run can be as little as 5p a mile – the car future really is electric.

Alesia and Duncan's Hyundai Ioniq includes the following features:

- It is at the top of all the energy efficiency ratings for the current electric vehicles out on the market.
- It has a maximum range of 175 miles and regularly tops 150 miles in the summer and 135 in the winter.
- It has Apple Car play installed so you can call, text and set map directions from your voice while you drive, and it literally talks back to you.
- It comes with a 5-year warranty as standard to support you and keep your fears at a minimum.
- It does come with top modern technology, so issues may happen, but the warranty is there to make that easily manageable with the promise of a courtesy car should it be needed.

The newest charging point from PodPoint was funded by OLEV through their home charging scheme and was needed as the technology for the charging plug had been improved so hence the need for a newer post, but even while that was being ordered they were given a mains house plug charger in the meantime, so at no time was there no means for charging.

Alesia and Duncan have lots of stories to share about their EV journey, so go along and ask them to share.

## Natural materials

The floorboards in the hallway needed to be treated, so Alesia did some painstaking research to find herself a toxin free oil for them. This company has created natural oils that work in balance with nature: [www.osmouk.com](http://www.osmouk.com)

## Water conservation

The back garden is a haven of tranquillity and has been created to enable a low maintenance but high impact environment. The garden has some fantastic bamboo growing and mulch is used to protect the soils and keep the need for watering at a minimum.

There is a newly installed drip irrigation system to enable even less maintenance with rainwater harvesting to follow as soon as possible.

