

# Shrewsbury Green Doors

A Zero Carbon Shropshire Project

# 2021

**ZERO  
CARBON  
SHROPSHIRE**

## Property Information Sheet



### Name and Address

Dave Green  
41 Racecourse Avenue  
Monkmoor  
Shrewsbury  
SY2 5BS

### Property Description

1930s brick semi with cavity walls, tiled roof.

### What changes have you made to your home?

Air Source Heat pump, (April 2021)  
Cavity fill insulation,  
Loft top up,  
Under floor insulation,  
Wood stove with air supply from under floor,  
Green roof on workshop.  
2.8kW Photovoltaics on roof, south east facing,  
(double-glazing was already installed)

### Why did you make these changes?

To make the house more comfortable, cheaper to run and drastically reduce carbon emissions.

The green roof on the workshop is much nicer to look at than a normal roof and provides habitat!

### What were the approximate costs?

Approximately £15k but getting most of that back through Feed In Tariff, Renewable Heat Incentive & reduced bills.

### What have been the approximate energy savings?

Gas use down from 11,000kWh in 2007 was reduced to 6,800kWh by 2014, including working from home.  
Gas now gone completely.  
Expect around 4,000 kWh/year net total imported electricity, allowing for electricity exports  
Total carbon emissions = 0 tonnes/year allowing for our Good Energy 100% renewable supply,  
around 920 kg if not allowing for green electricity supply (average UK household is 6,000kg)



### Property Information Sheet continued...

What have been the effects on your home?

SAP rating up from 30 (an F) to 78 ( a C).

The most noticeable change is that the house stays warm when the heating is switched off.

The green roof helps to insulate and soundproof the workshop and gives me a pleasant view from the office. The neighbourhood cats love it as well.

Who undertook the work?

Mostly myself.

PV by ESP Energy of Stapleford

Air source heat pump by MJS of Leominster

Would you recommend them?

ESP no longer do domestic PV.

MJS are an excellent family firm, highly recommended.

What else would you like to do? And why haven't you done them yet?

Draught lobby on front door.

Timber frame kitchen extension.

Have you considered any measures but rejected them? Please give details of what & why.

No

Do you have any further comments?

See my website, [www.davegreenenergy.co.uk](http://www.davegreenenergy.co.uk) for further advice