

Property Information Sheet



Name and Address

Mike and Mitch
Withywindle,
Wintles Lane,
Bishops Castle,
SY9 5FF

Property Description

4-bedroom detached new build house, airtight and super-insulated.

What changes have you made to your home / what green features did your home come with?

The house has insulation above current building regulations with an airtight lining. Our home has 6.3kWh solar panel array, 40kWh grid connected storage battery with grid trading software, and MVHR. An air source heat pump (ASHP) was installed, connected to underfloor heating downstairs, and an air-to-air heat pump was fitted as a backup. The latter also acts as air conditioning. We also have an efficient wood burner and run two electric vehicles (EV). Lastly, we have rainwater harvesting for garden use and washing the cars.

Why did you make these changes / choose a home with these features?

As we are planning to retire, we wanted to reduce monthly outgoings to a minimum, followed by comfortable living having lived in many homes from Georgian to 1990s built. Plus, it's important to stop importing fossil fuels to burn; so, we wanted to make an environmental contribution by reducing our emissions.

What were the approximate costs of each of the changes you made?

Insulation and airtight lining cost £10,000 and the MVHR cost £4,000. The solar array and grid connected storage battery cost £7,000 and £12,000 respectively. £12,000 was spent on the air-to-water ASHP whilst the rainwater harvesting system cost £7,500.

What have been the approximate energy savings?

We are not a frugal household, and we have only been up and running since May. Including the 4100kWh of charge to the EVs, we spend around £50 per month including standing charges which is roughly £19 per month.



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What have been the benefits to you / your home?

There's a consistent temperature even in the summer. We have used some aircon but our home has been designed to give airflow from open windows and high roof Velux for exhaust.

Who undertook the work?

Self-managed with sub-contractors.

Would you recommend them?

Yes.

What else would you like to do?

Change the inverter on the Battery. We have a 6.3kWh PV array and something like a 6.8kW inverter (three phase) but whilst this is fine for the array, it does not provide maximum benefit from the battery when buying low and selling high. We are on Octopus Agile at the time of writing.

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

We decided not to go for full Passive standard. It was a matter of return on investment and our lifestyle; we wanted extra glazing for as much daylight as possible and we enjoy a wood burner.

Any further comments?

N/A

Visiting instructions / information

Please turn up on the hour for the tours, we will be delighted to help.