

Property Information Sheet



Name and Address

Mike
Beaufort,
Coppice Drive,
Moss Road,
Telford,
TF2 7BP

Property Description

Brick bungalow built in 2003 with rock wool cavity wall insulation and is home to the largest domestic solar array in Shropshire! We also have a nationally recognised collection of carnivorous plants

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

Everything in the house runs off renewable electricity, including our heating and hot water thanks to the air source heat pump (ASHP). The heat pump, which feeds into the underfloor heating, replaced a gas boiler. We always wanted to have solar photovoltaic (PV) panels and had some at our previous house, so it was the first thing we did when we moved here in 2017. We fitted 48 solar PV panels equating to 14.22kWp, a Telsa Powerwall3 battery and 2 electric cars with 2 Zappi charging points. The Powerwall comes with 2 expansion packs for 40.5kWh storage and whole house backup in case of a power cut. An Eddi hot water immersion system was installed which is synchronised with the solar, Powerwall battery and car chargers. Our loft insulation was topped to 310mm, and triple glazed windows were fitted to adequately insulate the home.

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

My motivation was to be environmentally friendly. Climate change is my number one concern, so I morally wanted to stop contributing to something which is harming the natural world. I was inspired by renewable energy and became passionate about them and protecting our planet during A-level Geography classes in the early 1980s.

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

Extra loft insulation cost approximately £1,500 whilst replacing windows and doors was roughly £1,900. The 2 car chargers and Eddi system totalled £2,500 with the Powerwall costing £7,500. Roughly £33,000 was spent on the 48 solar PV array and the ASHP.

What have been the approximate energy savings?

We pay no standing charge for gas anymore, having been disconnected from the gas grid, saving us £130 per year. Having electric vehicles (EV) qualifies us for Octopus' Intelligent Go tariff, which is a real gamechanger combined with the battery. It gives us 6 hours electricity overnight at a cheap rate, currently 7.5p per kWh. During the summer we hardly use grid electricity at all as our battery is usually full by 10am from the solar panels, so we export to the grid and get paid 15p per kWh. With 2 electric cars no penny is spent on petrol or diesel. We actually make money on our energy bills, getting roughly £120 per year.



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What have been the benefits to you / your home?

We are more than pleased with the ASHP, it has been so efficient, and our home does not require a lot of heating as it is so well insulated. The changes we have made mean we can live comfortable without causing harm to the environment and saving a lot of money as a result.

Who undertook the work?

The ASHP and solar array was fitted by Go Green Systems based in Shrewsbury. Princes LHS of Ellesmere installed the Powerwall battery, the 2 Zappi car chargers and Eddi immersion heating system.

Would you recommend them?

Yes, I would recommend them.

What else would you like to do?

Nothing further for the time being.

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

No.

Any further comments?

We know that we are very lucky and that not everyone can afford all this retrofitting. Prices have come down since we installed solar panels. It was crucial for us to get off gas, so we prioritised buying green tech which has been a really good investment.

Visiting instructions / information

Parking is level, no trip hazards and is wheelchair accessible.