



Energy Efficient Homes

The Retrofit Toolkit

Sheet no 2: Preparing for Retrofit: Resources on your Doorstep

From simplest to more detailed

Measure your carbon footprint (Free) as follows:

Use an on-line calculator to calculate your household's annual carbon emissions and identify ways of reducing them.

One of the simplest is www.carbonfootprint.com/calculator.aspx which uses the carbon emissions factor (CEF) of your own electricity company and so encourages you to switch to a 100% renewable supplier. To find out the CEF go to <https://electricityinfo.org/fuel-mix-of-uk-domestic-electricity-suppliers/>

The IMPACT Community carbon calculator estimates the carbon footprint of a community such as a parish: see <https://impact-tool.org.uk>

Your local Voluntary Climate Group should be able to advise you about the use of carbon calculators – see the list on the back of the **Introduction** sheet

Take a thermal image of your home (Free)

See your greatest heat losses at a glance

A free thermal imaging service in Shropshire and Telford can be offered by the Marches Energy

Agency (MEA) via their project “Building Eco Support in Shropshire and Telford”: contact ksw@mea.org.uk or tea@mea.org.uk

Thermal imaging in Shropshire and Powys is offered for a charge by Lightfoot Enterprises – see info@lightfootenterprises.org

Free thermal imaging at a local level is also offered by:

- Stretton Climate Care – enquiries@strettonclimatecare.org.uk
- Market Drayton Climate Action – mdclimateaction@gmail.com

Energy Performance Certificate (EPC) (from £34)

The official measure of energy efficiency

These measure the energy efficiency of your home (from ‘A’ to ‘G’), and are now required for all houses when they are sold or let. They must be carried out by a qualified domestic energy assessor. They recommend improvements, but at present these do not include or incentivize switching to non fossil-fuel heating systems.

Contact: www.gov.uk/get-new-energy-certificate



<https://southshropshireclimateaction.org>



Household Energy Survey (HES)

Questionnaire and expert report by Lightfoot

These are undertaken for a charge by Lightfoot's trained volunteers. The questionnaire takes about an hour and a half. Energy experts then write a report with recommendations, including low-cost options.

Contact: jeremy@lightfootenterprises.org

Future Ready Homes

(Free to a limited number of homes)

Home energy survey and retrofit plan

This 2-year scheme aims to support homeowners on their retrofit journey, with advice, education and even some hands-on training.

Not every household which applies can be selected for a survey, because the scheme must include households in widely different kinds of property, tenure and circumstances. But educational resources such as online webinars are available to all.

To find out more, apply for a free home energy assessment. For this, and for information about [Keep Shropshire Warm](#), call 0800 112 3743, or email advice@mea.org.uk, or see <https://mea.org.uk/wp-content/uploads/2022/11/Keep-Shropshire-Warm-FAQs.pdf>

Report by Retrofit specialist

(£500-£1000)

Top of the range survey and recommendations

Retrofit specialists carry out thorough Energy Audits or EnerPhit Feasibility Reports on individual houses, including recommendations to achieve Net Zero Carbon in stages.

Other sheets available in this series

1. Fabric First: Planning changes to your home?
2. Preparing for Retrofit: Resources on your doorstep
3. The Energy Hierarchy: The Principle behind the Whole Building Plan
4. Opportunities to Begin the Journey
5. First Retrofit Priorities
6. Insulation: Roof & Attic
7. Insulation: Walls
8. Insulation: Windows & Ventilation
9. Insulation: Floors
10. Water Efficiency
11. Heating systems
12. Lighting
13. Renewables
14. Costs & Grants

Contact:

- James Smith at J3 Building Futures, Shrewsbury
Email: james@j3buildingfutures.co.uk
- Gervase Mangwana at Waxwing Energy, Herefordshire.
Email: info@waxwingenergy.co.uk
- Anne Netherwood is a conservation architect based near Oswestry.
Website: <https://annenetherwood.co.uk>
- Sam Gwilliam at Roost Building Consultants, Shrewsbury-based PAS 2035 L4 Assessor and L5 Co-ordinator. Email: sam@roostbuildingconsultants.co.uk

Find local installers

- A Marches-wide Retrofit Contractors' List has been created and can be found [here](#).

Download the info sheets from our website at <https://southshropshireclimateaction.org>

Revised April 2024