



GREEN HOME FESTIVAL

BROUGHT TO YOU BY THE



The logo for Green Home Festival, featuring the text 'GREEN HOME FESTIVAL' in a bold, sans-serif font. The word 'GREEN' is on the top line, 'HOME' is in the middle, and 'FESTIVAL' is on the bottom line. A small house icon with a chimney is positioned between 'GREEN' and 'HOME'. Below the main text, it says 'BROUGHT TO YOU BY THE' followed by a small logo for 'CICV'.

GREEN
HOME
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BROUGHT TO YOU BY THE 

‘DEMYSTIFYING HEAT PUMPS’ SNIPEF

THE PLUMBING AND HEATING ASSOCIATION



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SNIPEF WHO WE ARE?

Principle Trade Association

Represent the interests of plumbing and heating businesses in Scotland and Northern Ireland.

An active member of the CICV



SNIPEF

Plumbing and heating association

OUR OBJECTIVES

- Promote professional plumbing and high standards across the plumbing industry.
- Provide quality assurance to consumers.
- Support members to run professional and profitable businesses.
- Ensure the industry has a skilled and qualified workforce.

OUR MEMBERS

- **750 member businesses** across Scotland and Northern Ireland
- **5000 competent plumbing operatives** working within these businesses
- **Ran by the Industry** – board of members

750

Members
(approx.)

5000

Competent
Operatives

8

Local
Associations

Apprenticeships

- **SNIPEF Training Services** manage 900_(approx.) plumbing apprentices - Scotland
- **14 colleges** – Scotland
- **4-year** Modern Apprenticeships
- **SVQ Level 7**

900

Apprentices

14

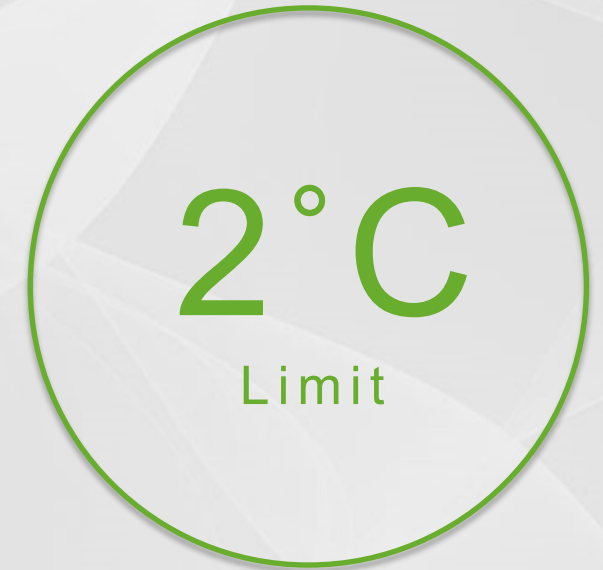
Colleges

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A 'NET ZERO' FUTURE FOR HEAT

What is 'Net Zero'?

- Energy Saving Trust – “*net zero means achieving a balance between the carbon emitted into the atmosphere, and the carbon removed from it*”.
- Stop global warming
- Paris Agreement 2015 (COP 21) – Limit the increase in global temperature well below to 2°C
- Preferred 1.5°C limit
- Possible point of ‘**NO RETURN**’
- **Imbalance** – ‘Climate injustice’
- We need to become ‘Net zero’ in all parts of our life



2°C
Limit

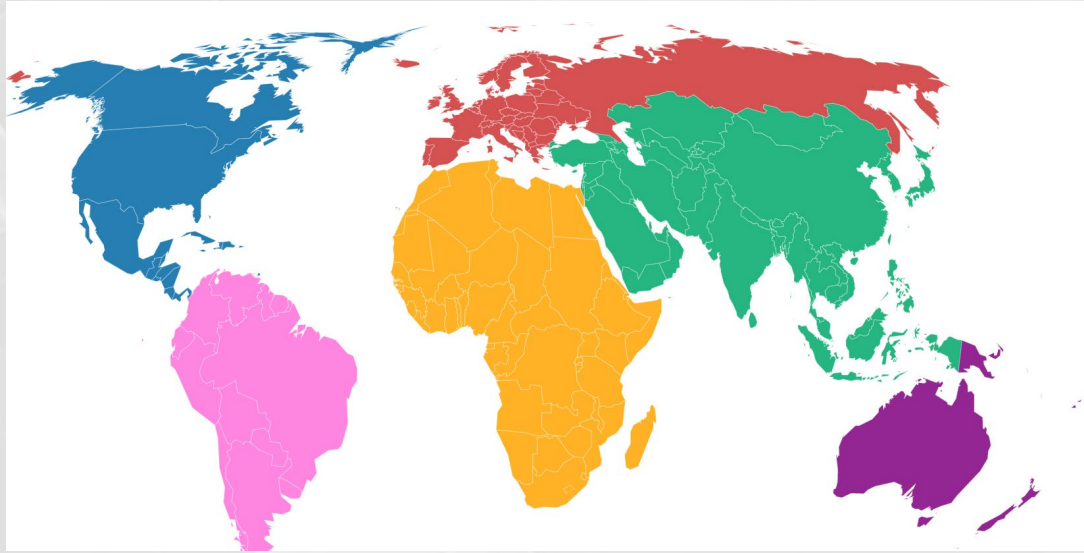


1.5°C
Preferred

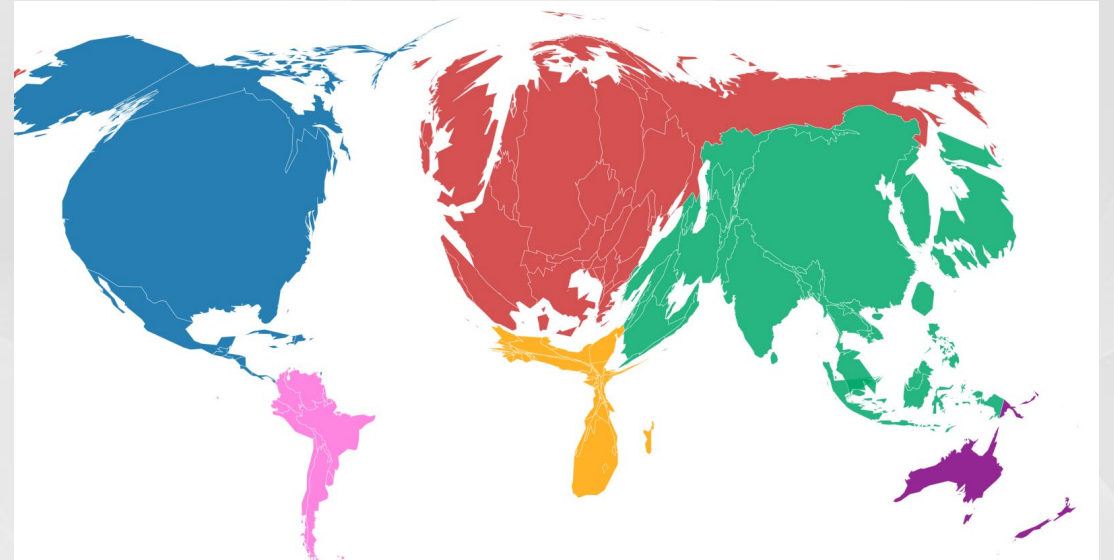
A Social Responsibility

<https://www.carbonmap.org/>

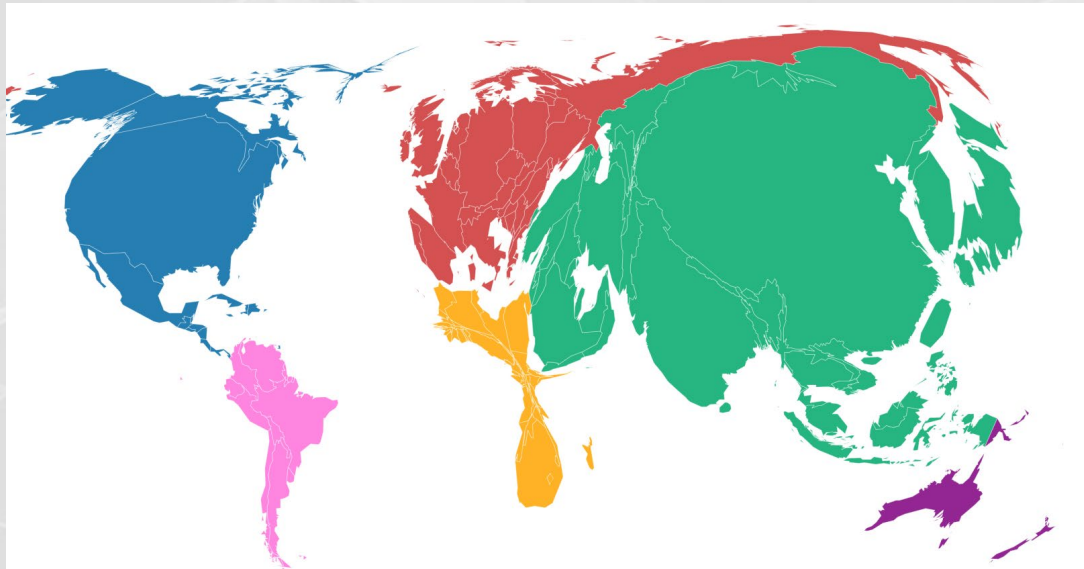
Area



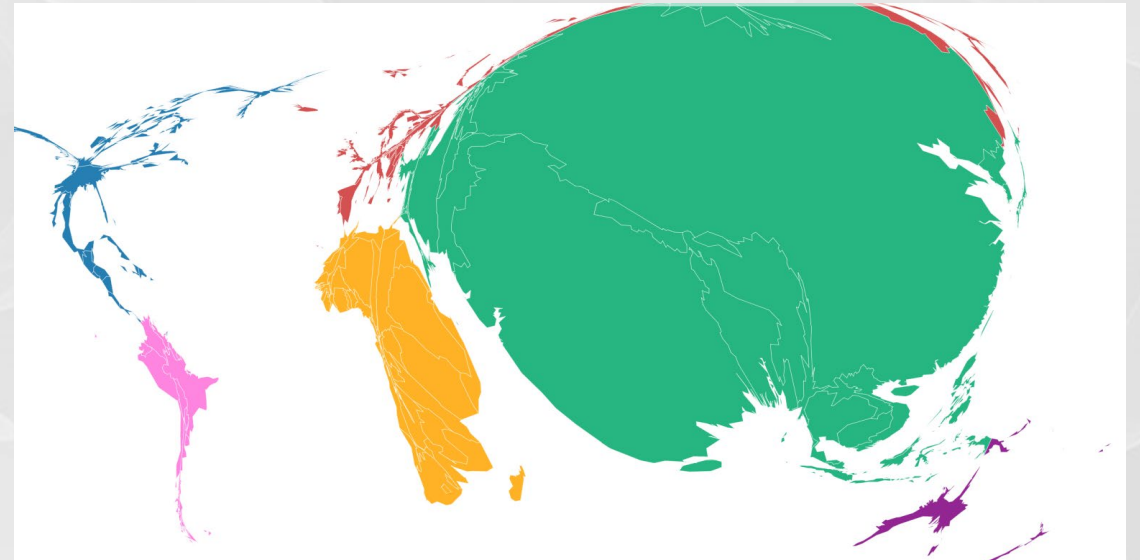
Historical



Emissions



People at Risk



Carbon emissions?

- Carbon emissions – our lives
- Green house gases – temperature rise
- We have improved – but not enough!
- 50% reduction in 30 years
- 1990 – 80MtCO₂
- 2020 – 40MtCO₂ – still need to improve

80MtCO₂
1990
Scotland

40MtCO₂
2020
Scotland



Where does 'heat' fit in?

- 13% Emissions – dwellings
- 2.5m dwellings in Scotland
- **1.5m+ (58%) Owner occupied**
- 390K (15%) Private rented
- 598K (23%) Social rented
- 104K (4%) Empty
- 220K Non-domestic buildings
- Natural gas 2m+ (Hydrogen?)
- Oil 129K (HVO?)
- Electricity 262K (green gen?)
- Communal heat 34K (green source?)
- LPG Gas 18K+
- Solid fuel 20K
- Biomass 16K
- **Zero/low carbon 278K (10-11%)**



Government Targets

- 2026 – 124K zero emissions heating systems
- 2030 – Majority of off-gas(170K) zero emissions heating systems
- 2030 – Plus 1M on-gas homes zero emissions heating systems
- 2030 – 50K non-domestic buildings zero emissions heating
- How many are we installing now?
- 2020 – 3k zero emissions heating systems

**We have a long way to go!
It is us that is expected to act.**



Step one

Fabric First Approach

- Insulate before we generate
- Existing buildings
- Loft insulation
- Cavity/external/internal wall Insulation
- Draught exclusion

**Be sure to check out the other Green homes
festival shows**

- **Microgeneration**

- Solar Thermal
- Solar PV
- Battery storage
- Heat batteries
- Biomass
- **Heat pumps**



Skills – create confidence

Marketplace demand is essential. A competent workforce can help increase confidence and demand to drive a mass deployment.

SNIPEF



Practicalities and impact

Homeowners need to understand the practicalities, what is needed, how it impacts their home and their lives.

Barry Sharp
Renewable Heat



Accessible to all

The technologies must be accessible to all and not be seen as a luxury purchase.

Gordon Spowage
Home Energy Scotland

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Barry Sharp

Renewable Heat – Heat Pump Expert

SNIPeF Member



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Gordon Spowage

Home Energy Scotland

Advice and Financial Support



Home Energy Scotland: Support for energy efficiency improvements and low carbon technologies

Gordon Spowage
Technical & Outreach Manager



Home Energy Scotland

- **Who are we :**
 - Home Energy Scotland is the Scottish Government's free and impartial advice service helping householders keep their homes warm and energy bills low
 - Funded by the Scottish Government and managed by the Energy Saving Trust
- **What do we do :**
 - Provide **free and impartial advice** via phone, email and at events
 - Provide **free home visits** from specialist advisors
 - Assist householders to access to UK and **Scottish Government funding** for energy efficiency improvements
 - Offer wider support to help maximise income through benefit checks, advice on energy tariffs and supplier incentives



Home Energy Scotland

Energy Efficiency Measures:

Hard To Treat properties:
“How can I improve this?”

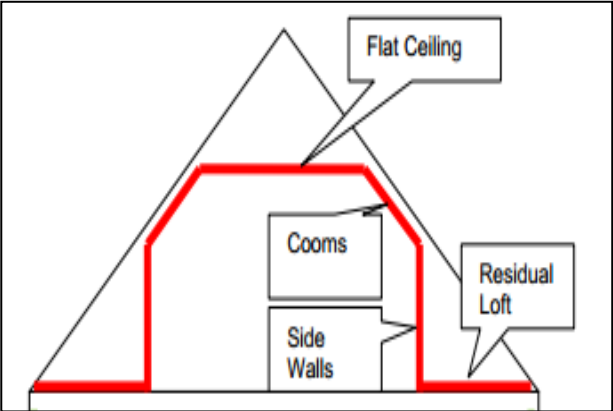
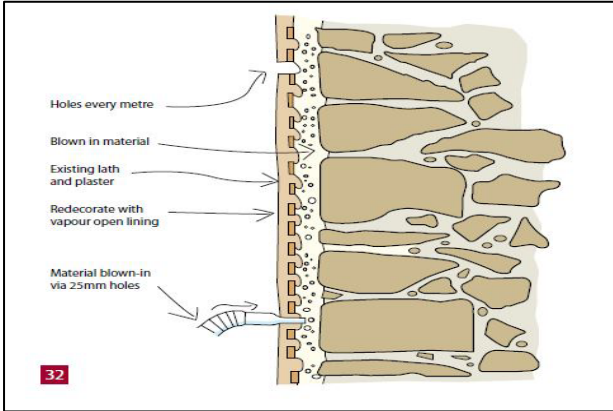




Home Energy Scotland

Energy Efficiency Measures:

Hard To Treat properties: “How can I improve this?”





Home Energy Scotland

- Renewable Energy Measures





Home Energy Scotland Loan

Measure	Maximum cashback	Maximum funding including cashback
External or internal wall insulation	£4,000	£10,000
Cavity, loft, under-floor insulation	£400	£1,000
Central heating upgrade	N/A / £400*	£5,000
Room-in-roof insulation	£1,600	£4,000
Double or secondary glazing	£400	£4,500
Solar PV / Solar Thermal	N/A	£5,000
Energy storage	N/A	£6,000
Heat pumps or biomass	£7,500	£10,000

*High heat retention electric storage heaters/warm air units only



SME Loan



Further Support

Additional incentive -based funding:

- Smart Export Guarantee (SEG)
- Feed-in tariff (FiT) – now closed to new applications for systems installed after 31 March 2019
- Renewable Heat Incentive (RHI) – now closed to all new applications since 31 March 2022

Online tools:

- Renewables Installer Finder (RIF) Tool
- Green Homes Network Service
- Solar Calculator/ Wind Speed Predictor/ Renewables Selector Tools

Renewables Specialist Service



Through our specialist home visit service we can offer:

- **A free and impartial** home visit to survey the property
- Provide **tailored advice** regarding the property and its specific needs
- **In-depth report** with personalised recommendations and estimated costs, savings and income
- **Continued support** over the phone or via email for as long as necessary



Home Energy Report – Home Visit

- Breakdown of current energy usage
- Up to 4 sets of recommendations, including all suitable energy efficiency measures
- Information on potential costs, savings and income from renewable technologies

Also:

- **Step -by -step guide on funding options and applications**
- Factsheets covering the installation process, materials and things to consider for each recommended improvement

FACTSHEET 1: A GUIDE TO WORKING WITH RENEWABLES INSTALLERS



Installing a renewables system is a big commitment, so it is important to research your chosen installer and system before you make your final decision.

Finding installers

Make sure you choose an installer who is suitably certified – we would recommend using an installer who is certified under the Microgeneration Certification Scheme (MCS).

Why choose an MCS installer?

The MCS is a quality assurance scheme that sets standards for products and installers to make sure that small-scale renewables systems are installed and work to a high quality.

All MCS installers should also be members of a Trading Standards Institute (TSI) Consumer Codes Approval Scheme (CCAS) like the Renewable Energy Consumer Code (RECC), the Home Insulation and Energy Systems Contractors Scheme (HIES) or the Glass and Glazing Federation (GGF), or others. It covers all the factors that contribute to a high standard of customer service before, during, and after a contract is agreed. It is important to read the relevant Consumer Code carefully before signing a contract with an installer or paying a deposit.

If you are planning to apply for funding through a government scheme, you will have to use an MCS-certified installer.

Where can I find MCS installers?

You can find a comprehensive list of MCS installers on the [installer search tool](#) on the MCS website.

You can also search for MCS-certified installers operating in your area on the [Renewables Installer Finder](#). This search tool on our website additionally allows you to find out about the companies and their experience in installing renewables. You can read customer ratings and reviews about different installers and see any special offers they are promoting.

Home Renewable Selector Report

- Home visit service currently on hold in some areas.
- Remote support available in order to maintain service and assist householders in making informed decisions
- Reports produced based on a property and occupancy questionnaire conducted over the phone
- Ongoing support from your advisor once you have received your report to guide you through the next steps

energy
saving
trust

Your renewables report

Solar photovoltaics (PV)



Solar electricity panels, also known as solar photovoltaics (PV), capture light from the sun and convert it into electricity for your home. Solar electricity panels will generate electricity even on cloudy days – they just need daylight.

Potential performance		
Potential annual net benefit £251 year		
Potential CO ² saving 1,012 kg / year	Potential fuel bill saving £160 year	Potential payments from SEG £91 year
Estimated installation cost £5,970		

More detail and assumptions		
These figures are based on the information about your property that you have provided and assume that any recommended improvements have been installed first.		
Assumed Smart Export Guarantee (SEG) Tariff: 4.0 pence/kWh	PV system type Medium (4kWp) System requires 29 m ² of roof space	
Energy generated by the panels 3,295 kWh	Amount used within the property 1,017 kWh	Amount exported to the electricity grid 2,279 kWh
Assumed PV inverter efficiency: 95%		



Further Support

- Call Home Energy Scotland on 0808 808 2282 (free phone)
- Email: technicalteam@se.homeenergyscotland.org
- Visit our website: homeenergyscotland.org
- Connect with us online at
www.facebook.com/HomeEnergyScotlandSouthEast
Twitter **@HomeEnergyScot**



Thank You!

For further support contact:

0808 808 2282

technicalteam@se.homeenergyscotland.org



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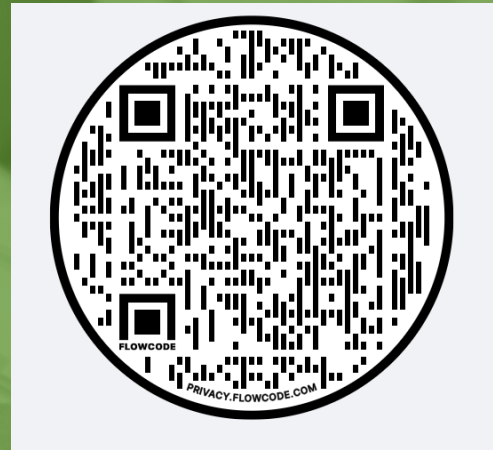
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Questions?

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THANK YOU



www.snipef.org