

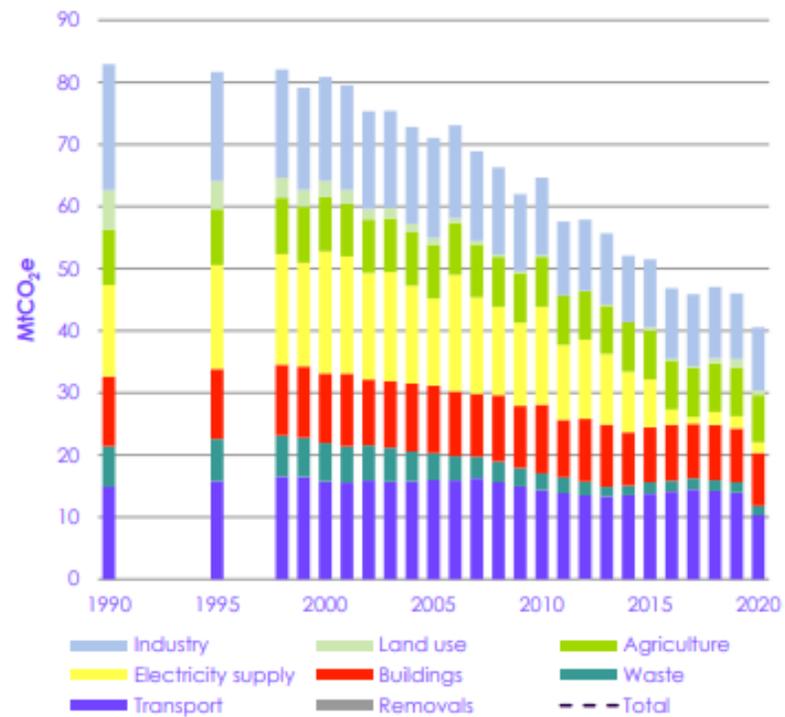
Heat in Buildings: Achieving Net Zero Emissions in Scotland's Buildings

Catrin Cooper



The Heat in Buildings Strategy

Figure 5 Scotland's historical emissions (1990-2020)



Source: NAEI (2022) Greenhouse Gas Inventories for England, Scotland, Wales and Northern Ireland: 1990-2020; Scottish Government (2020) Securing a green recovery on a path to Net Zero: Climate Change Plan 2018-2032 – update.
Notes: Historical emissions are not available for the years 1991-1994, and 1996-1997.

Heat in Buildings Strategy

Achieving Net Zero Emissions in Scotland's Buildings



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Statutory targets



Climate Change
(Emissions Reduction
Targets) (Scotland) Act
2019

Net zero by 2045 and 75% reduction by 2030



Heat Networks (Scotland)
Act 2021

6 TWh capacity by 2030



Fuel Poverty (Targets,
Definition and Strategy)
(Scotland) Act 2019

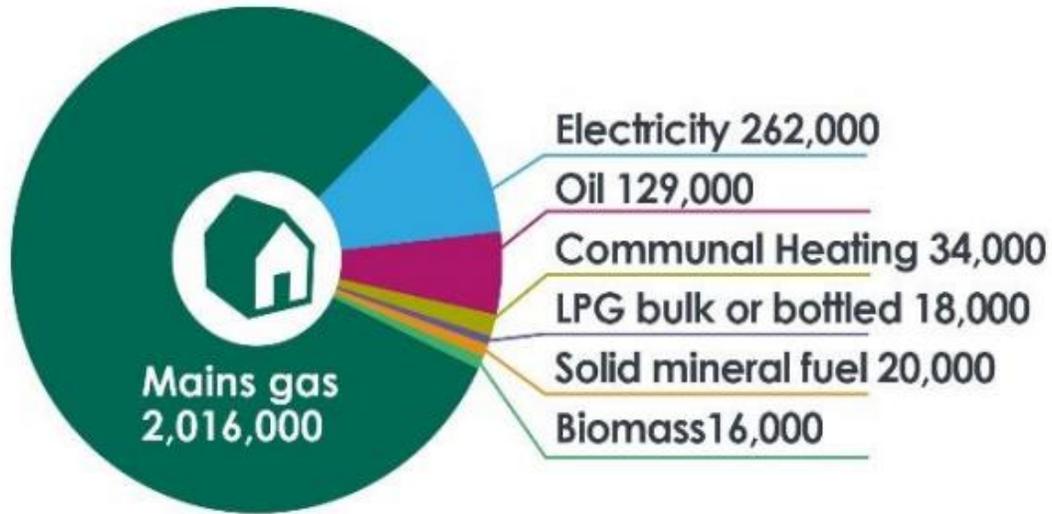
In 2040 no more than 5% of households are fuel poor with
<1% in extreme fuel poverty



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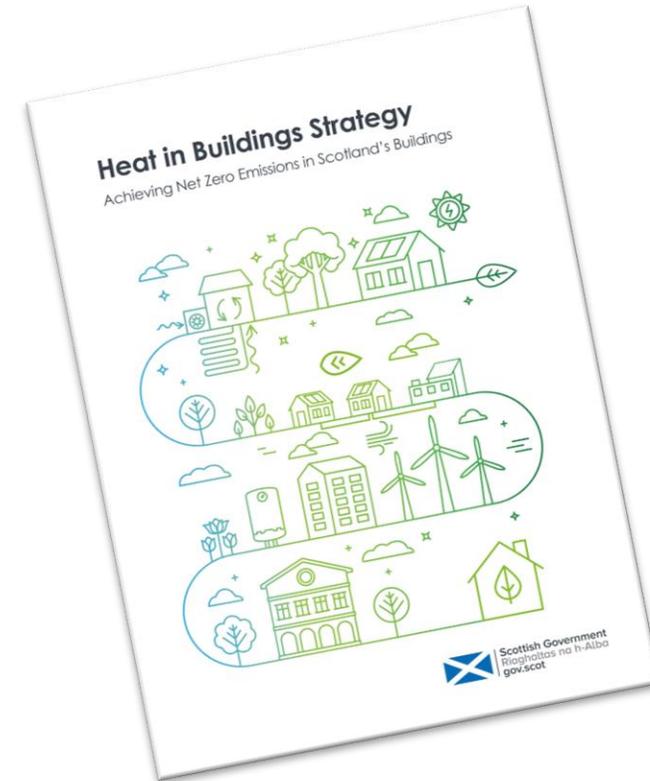


Where are we now?



Breakdown of primary heating fuel vs number of homes. Source Scottish House Condition Survey, 2019

Where do we want to get to?



Strategic technologies



Energy efficiency



Heat pumps



**Low and zero emissions
heat networks**



Heat in Buildings Programme

Delivery:

- **£1.8bn** commitment to 2025-6
- Support schemes
- Heat & Energy Efficiency Scotland
- Heat network investment
- Public engagement
- Supply chain delivery plan

Policy & regulation:

- **Consult on proposals for legislation** prohibiting the installation / replacement of direct emissions heating systems by 2045



- **A Long-Term Market Agenda**
- **A Regulatory Framework**
- **The Economic Opportunity**
- **Working with the UK Government**
- **People**
- **Place**
- **Energy Networks**
- **Investment**



Current delivery schemes

|  | Domestic support | Business support | Communities & Public Sector | Multi-sector support | Registered Social landlords (RSL) |
|---|---|--|--|---|---|
| | <p>Home Energy Scotland Free independent advice and referral scheme.</p> <p>Home Energy Scotland: Grant and Loan scheme Grants up to £15,000 for heat pumps and energy efficiency measures, and up to £18,000 in rural areas. Loans are available as well as grants to cover additional costs.</p> | <p>Business Energy Scotland Free advice and support to SMEs for energy efficiency and heat decarbonisation.</p> | <p>Community and Renewable Energy Scheme (CARES) Advice and funding support for renewable energy.</p> | <p>Scotland's Heat Network Fund Open to all public and private sector organisations, supporting rollout of zero emissions heat networks.</p> | <p>Social Housing Net Zero Heat Fund Grants to RSLs for the retrofit of zero emissions heating systems and energy efficiency measures across their housing existing stock.</p> |
| | <p>Area Based Schemes Fuel poverty scheme delivering energy efficiency, leveraging ECO and private investment. Particularly effective for mixed tenure multi-occupancy buildings.</p> <p>Warmer Homes Scotland Fuel poverty scheme delivering heating improvements and energy efficiency. Successor scheme to go live in July 2023.</p> | <p>SME Loan and Cashback Interest free loan and cashback for energy efficiency and renewable heat.</p> | <p>Green Public Sector Estate Decarbonisation Scheme Loan and grant funding for heat decarbonisation and energy efficiency improvement projects. Energy Performance Contract Framework for larger public sector projects.</p> | <p>District Heating Loan Fund Open to local authorities, social landlords, SMEs and ESCOs with fewer than 250 employees.</p> | <p>See District Heating Loan Fund.</p> |



Public engagement

Paid for media



Social media

Around 20% of Scotland's greenhouse gas emissions come from our homes and buildings.

#ScotClimateWeek

Source: gov.scot

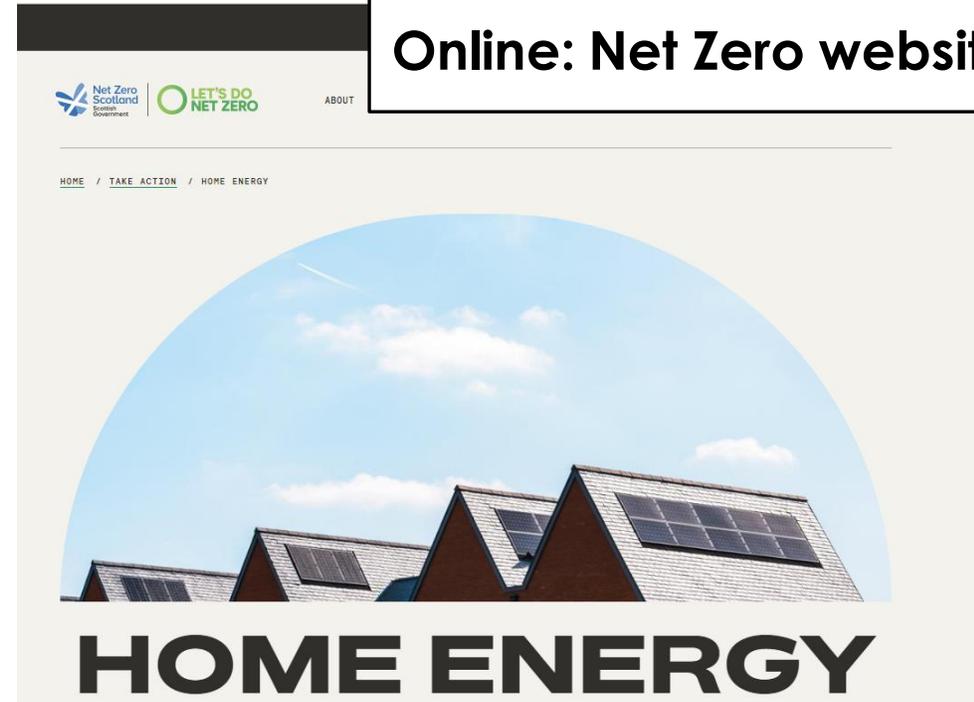
Around 2 million homes in Scotland are heated using natural gas.

Source: Scottish House Condition Survey

Only around 1 in 10 households have low emissions heating systems.

Source: gov.scot

Online: Net Zero website



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Heat & Energy Efficiency Scotland

- Virtual Agency – Heat and Energy Efficiency Scotland- launched “in-house” - October 2022.
- Initial focus:
 - Continue to deliver existing schemes, with existing delivery partners
 - Public engagement
 - Improving the customer journey
 - Leadership and co-ordination across the heat decarbonisation landscape

Independent Strategic Board – established to support development of Agency

Commitment to establish a standalone Agency by 2025.



- The Heat Networks (Scotland) Act (the 2021 Act)
- The Heat Networks Delivery Plan (HNDP)
- Scotland's Heat Network Fund
- Heat decarbonisation plans from 2024
- Demand assurance
- MoU with Denmark



Queens Quay district heating network, Clydebank – led by West Dunbartonshire Council



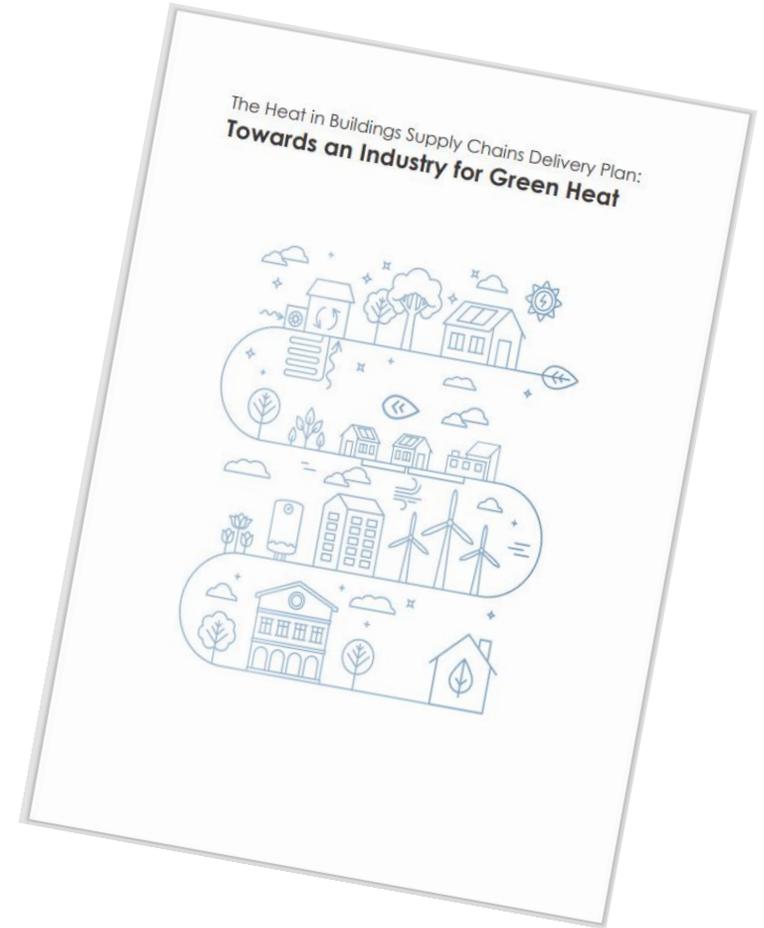
Economic opportunities and challenges

Opportunities:

- Share in an anticipated £33 billion
- Currently annual turnover of £2 billion and 12,500 jobs
- Additional 16,400 jobs (in heat sector) supported in 2030

Challenges:

- Who pays?
- Not enough capacity in sector plus ageing workforce
- Scale and pace of the increase in installs



Thank you



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