



Scotland's centre of expertise connecting  
climate change research and policy

# Zero emissions heating in new buildings across Scottish Islands

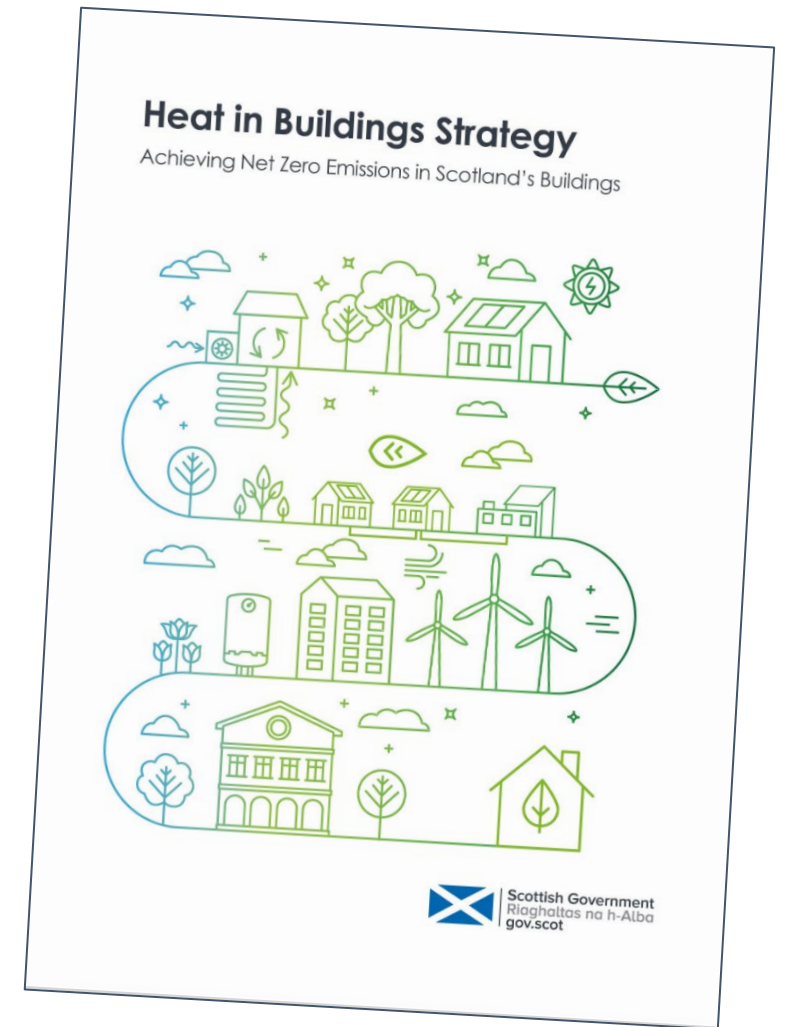
Research by Changeworks and LCP Delta

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**+LCPDelta**

# New Build Heat Standard

- From April 2024
- Zero Direct Emissions Heating (ZDEH)
  - Electric heating systems
  - Heat networks



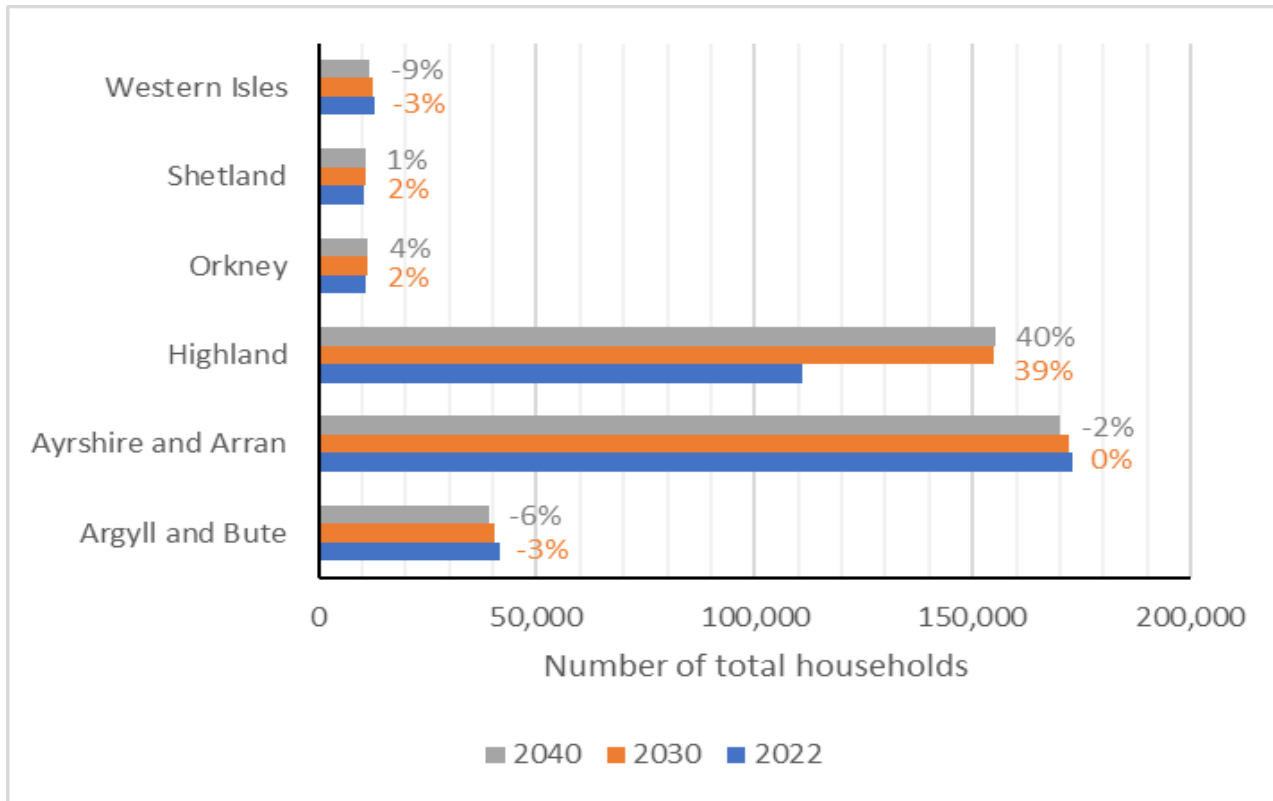
# Research Aims

To understand:

- Which ZDEH systems are best suited to the Scottish islands and remote communities
- Impacts on local infrastructure and supply chains
- Factors that may constrain the uptake of these technologies



# Scale of new build developments



- High growth in Highland
- Minimal growth elsewhere
- Have trends changed since the pandemic?

*Change in total number of households projected in 2030 and 2040*  
*Data Source: Scottish Government Household Projections data (2018)*



# Key Findings

- Most new builds are built with ZDEH already
  - ASHP and electric storage heating are most common
- Implementing lessons from experience



# Local supply chain challenges

- Reliant on installers from mainland Scotland
- Travel and accommodation costs
  - Lack of maintenance





# Reflections for a Just Transition

1. Not underestimating the challenge of retrofit
2. Development of local supply chains
3. Learning from the islands

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<https://www.climatechange.org.uk/media/5763/cxc-zero-emissions-heating-in-new-buildings-across-scottish-islands-jun-2023.pdf>

