

Policy barriers to net-zero homes the UK perspective

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Convened by:

RESEARCH THEMES

Our research team specialises in three research themes:



LEEDS BECKETT UNIVERSITY
LEEDS SUSTAINABILITY
INSTITUTE



Sustainable Behaviour

Insights to understand how people can make more sustainable, healthier choices in their home, work, and travel decisions.



Sustainable Buildings

Research into how to design, build and evaluate buildings which are healthy and have low environmental impacts.



Sustainable Urban Environments

Monitoring urban landscapes to promote healthier, more sustainable cities and communities.

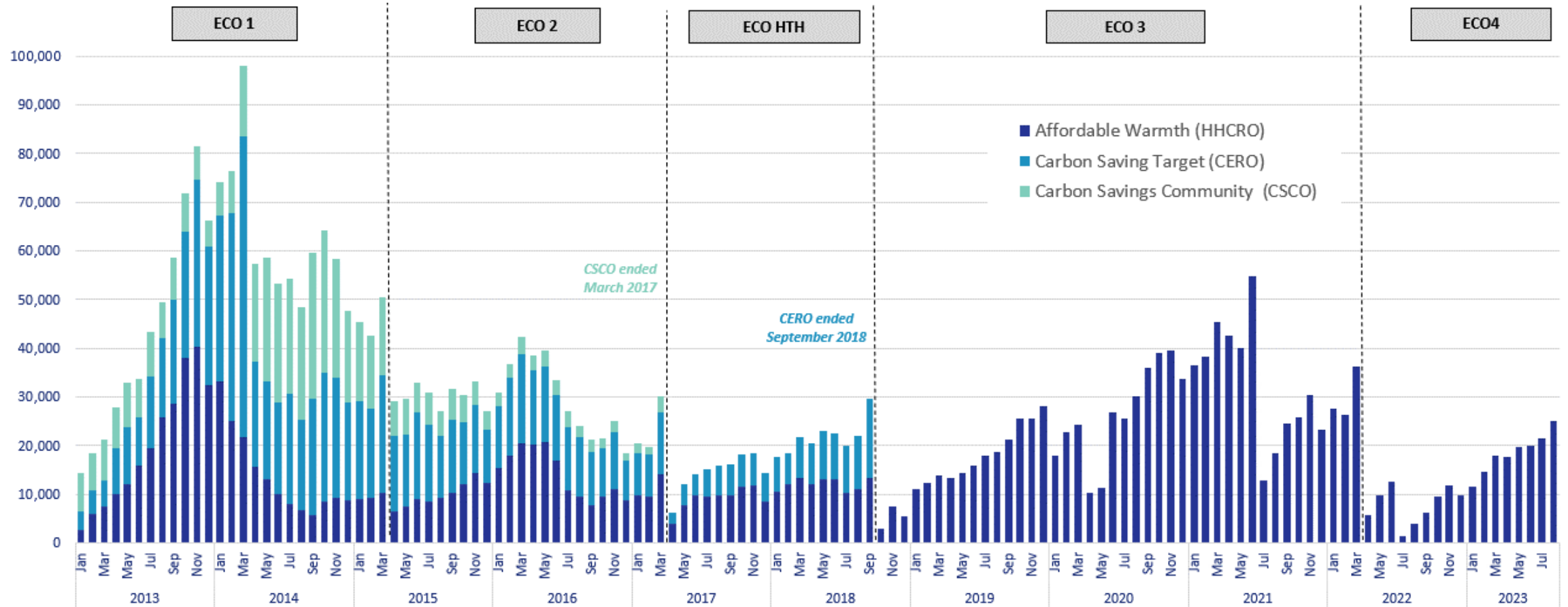


Energy in UK Homes

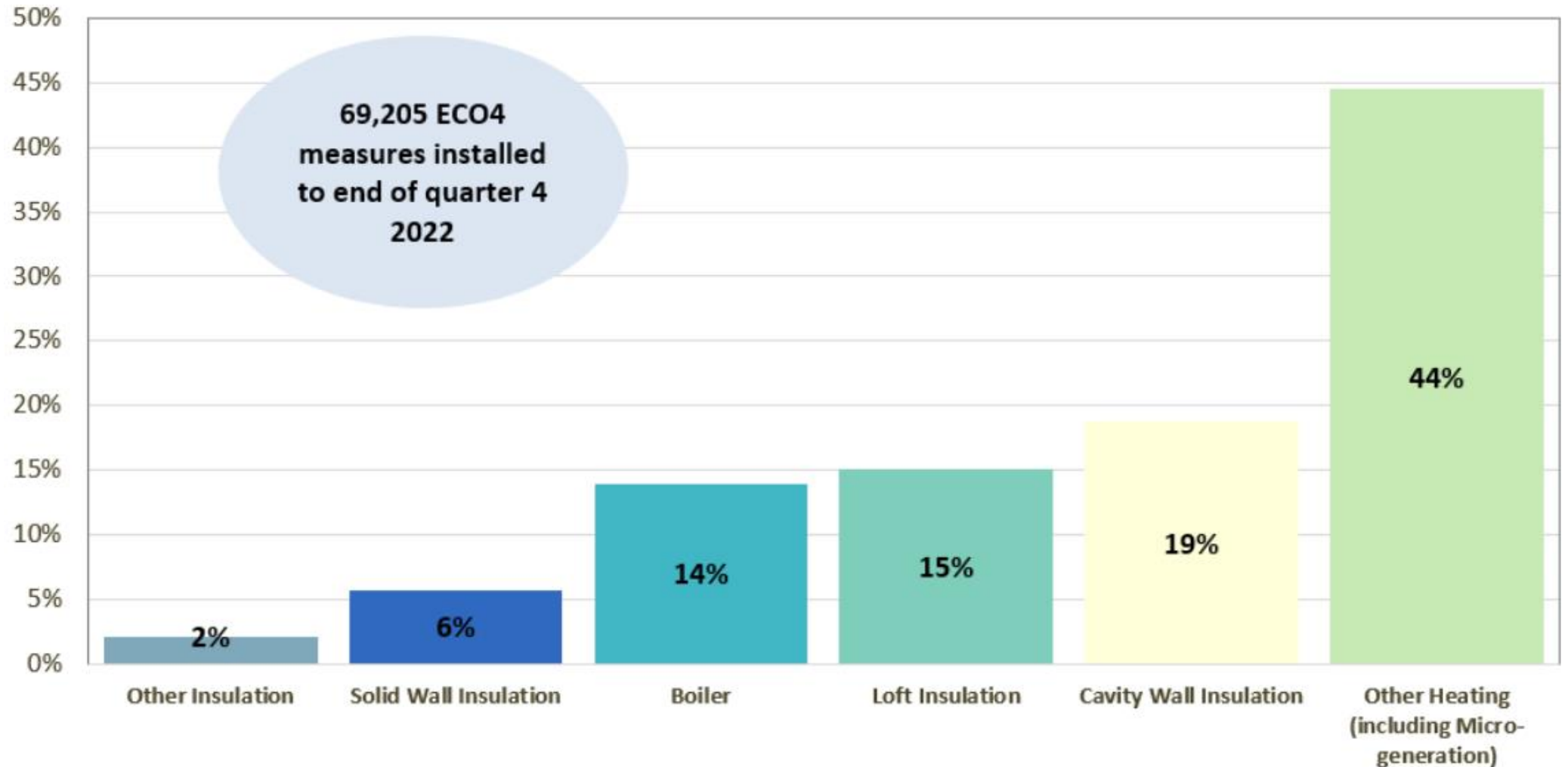
- No air conditioning
- 85% gas heating
- Countrywide gas and electricity grids
- Net zero by 2050
- 85% of homes will exist in 2050
- 1 in 4 homes in fuel poverty (10% income)



Policy for fuel poverty



Low impact retrofits prioritized



1. Green Deal 2011-2013

- Pay as you save
- Loan
- Golden rule
- Limited householder awareness
- Inadequate consumer protection
- Abandoned



7.9%



10,000 homes

2 years



2. Boiler Upgrade Scheme 2022 to 2028

£5k to £6.5k contribution to heat pump

Low public awareness

Limited installers

Not likely to reduce bills

Higher upfront & running cost than a gas boiler

Boilers are replaced when they break

Target 600,000 per annum

Amended



<50,000 p/a



3. Green Homes Grant 2020-2021

£2k to £10k voucher

<1-year window

Small number of approved installers

Target 600,000 homes

Abandoned

Funds allocated to local authorities



<50,000 homes

6 months



4. Social Housing grants

> £2 billion total

Social Housing Decarbonisation Fund (SHDF) 1 & 2

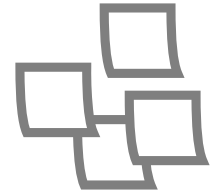
Local Authority Development (LAD) 1a, 1b, 2 & 3

Home Upgrade Grant (HUG) 1 & 2

Different requirements and funding rules

Competitive tenders

12 -24 month delivery



Lessons learned

Timescales

- 4-year policy cycles
- Limited windows

Uncertainty

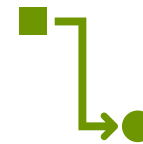
- Householder awareness
- Installer confidence and compliance

Complexity

- Application process
- Eligibility criteria

Finance

- Interest rates
- Payback



Scale

