

Providing the enabling environment for retrofit delivery to scale



Thursday 18th January 2024 Dale Hoyland
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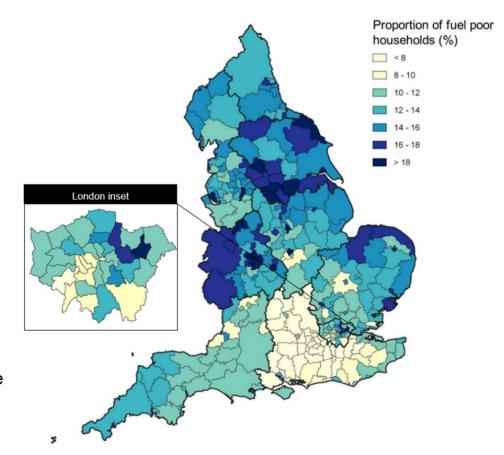


Current position

Facing a climate and ecological emergency

Cost of living crisis (fuel poverty increasing)

- 2019 7.4% in Oxfordshire (20,746 properties)
- 2020 8.2% in Oxfordshire (22,861 properties)
- 2021 8.4% in Oxfordshire (23,109 properties)
- Two thirds of which live in rural areas...
- ... However, Oxford City remains significantly worse than the regional average





Introduction

By 2030, we'll collectively need to have retrofitted 16,000 properties to an EPC 'B' standard to mitigate greenhouse gas emissions from Oxfordshire's domestic sector



3.7 Domestic Energy Route Map

Oxfordshire Net Zero Route Map: Domestic Energy Sector

Context:

2023: Publish details of **Future Homes** Standard

2023: Completion of Project LEO

2023: Allow for hydrogen blending (20% gas grid)

2024: South / 2025: Gas **VoWH Joint** boilers banned Local Plan in new adoption dwellings

2025: Newly rented properties require EPC rating C and above

2025: District Heat Zoning introduced

2025: All rented properties require EPC rating C and above

2025

2028: 600,000 Heat Pump Sales pa

FUTURE













Publish Oxfordshire Net Zero Route Map & Action Plan

Establish Leads and Sprint Groups

18% Existing **Properties** min EPC B

2030: Vale

of White

Horse 75%

reduction

New Build Housing Standard: Future Homes Standard

2030: 59%

reduction in

Greenhouse

Gas Emissions

20% New Pumps

2030:

Cherwell

target date

for Net Zero

10% Carbon Reduction By 2025

District Heating: 5% / 5% Biomass 95% / 2% 2030: South Oxfordshire

Gas Grid: 0% / 75%

Other Fuels: 0% / 18%

Non-Electricity Fuel Mix:

target date for Net Zero

New Development / Existing Dwellings

2028: Commence fifth carbon budget period

41% Carbon Reduction By 2030 New Build 80% New Housing

have Heat Pumps

83% Existing **Properties** min EPC B

New Build Housing Standard: Passivhaus Premium

2033: Commence sixth carbon budget period

2030

2035: Can on sale of new gas boilers

Properties

min EPC B

2035: Target for 78% reduction in emissions

Standard:

2040: Oxford City target date for Net 7ero

Passivhaus

Premium

2045 Vale of White Horse target date for Net Zero

2050 West Oxfordshire target date for Net Zero

80% New developments have Heat Pumps

Non-Electricity Fuel Mix: **New Development / Existing Dwellings** Gas Grid: 0% / 60% District Heating: 14% / 14%

Biomass 86% / 26% 74% Reduction By 2040



92% Carbon Reduction By 2050

New Build 80% New Housing Standard:

developments have Heat Pumps

Non-Electricity Fuel Mix: **New Development / Existing Dwellings** Gas Grid: 0% / 50% District Heating: 20% / 20%



Net Zero Oxfordshire

% changes are the total (cumulative change) at that date

Roadmap covers scopes 1 and 2. Scope 3 (embodied carbon, consumption emissions) will need to be included in considerations over coming years to limit Oxfordshire's wider impacts.

UK Government Context

Oxfordshire **County Council** Context

100%

Existing

Properties

min EPC B

District Council Context

Kev

Net-Zero Pathway Requirements

Biomass 80% / 30%

Hydrogen sources (scope 3) are out of scope of the work. however estimates have been made for the aggregate impact of hydrogen on the UK system emissions



Better Housing, Better Health

One-stop advice service for Oxfordshire:

- Free, impartial advice
- Accessing funding:
 - ©ECO4, GBIS & HUG2
- Switching energy suppliers
- Fuel debt advice & support
- Access to support organisations







HUG2 in Oxfordshire

- £6.4m to upgrade 310 properties
- 4 District Councils (exc. Oxford City)
- Runs until 31 March 2025
- Works delivered via delivery partner (AgilityEco / Welcome the Warmth)
 & subcontractors
- Up to £38k worth of measures per property
- Measures include insulation, ASHP & Solar PV





Dual-Branded Marketing











Eligibility

- Owner occupiers and private tenants (landlords pay 33%)
- Homes not heated via mains gas
- EPC 'D' or worse
- In receipt of means-tested benefits or gross income below £39,000
- Full details at <u>www.oxfordshire.gov.uk/retrofit</u> and <u>www.welcomethewarmth.org.uk</u>







> Phase 2a

- Capacity on low-voltage sub-station cables vs. need for network enhancements
- Setting up costing proposals and payment mechanisms for householders
- Early adopting 'champions'
- Setting up supplier provision to roll out early mass-adoption
- > Requirement to deliver minimum 25% heat pumps into defined area
- Leads are City Science (NW Bicester area) and Samsung (Rose Hill, Oxford)

Department for Energy Security & Net Zero

Gearing up for phase 2b stagegate







Financial

Consumer engagement across all audiences





Capacity, capability and skills

Material supply issues



Our Future Plans

- New projects launching to overcome barriers for retrofit to scale
- We must urgently leave fossil fuels behind
- Net zero carbon is our aim
- Energy efficient homes, transport, businesses and food
- Energy from renewable sources
- Harness ingenuity & good practice
- Community level support: small changes, collectively add up to a big difference









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