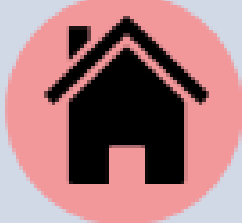





PaZCO mandate

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.

<< £1.5billion of investment required to achieve this >>

Sector	No.	Action
	1	Expand and scale-up retrofit delivery.
	2	Scale up programmes to address the retrofit skills gap.
	3	Develop a collective purchasing approach that supports the widespread deployment of rooftop solar on existing buildings.
	4	Develop an on-going Local Area Energy Planning (LAEP) function.

Oxfordshire Net Zero Route Map: Domestic Energy Sector

FUTURE
OXFORDSHIRE
PARTNERSHIP

Context:

2023: Publish details of Future Homes Standard	2023: Completion of Project LEO	2023: Allow for hydrogen blending (20% gas grid)	2024: South / VoWH Joint Local Plan adoption	2025: Gas boilers banned in new 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	2028: 600,000 Heat Pump Sales pa
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Publish Oxfordshire Net Zero Route Map & Action Plan

Establish Leads and Sprint Groups

10% Carbon Reduction By 2025

18% Existing Properties min EPC B	New Build Housing Standard: Future Homes Standard	20% New developments have Heat Pumps	Non-Electricity Fuel Mix: New Development / Existing Dwellings Gas Grid: 0% / 75% Other Fuels: 0% / 18% District Heating: 5% / 5% Biomass 95% / 2%
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2030: Vale of White Horse 75% reduction	2030: 59% reduction in Greenhouse Gas Emissions	2030: Cherwell target date for Net Zero	2030: South Oxfordshire target date for Net Zero	2028: Commence fifth carbon budget period
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41% Carbon Reduction By 2030

83% Existing Properties min EPC B



23% Existing Properties min EPC B	New Build Housing Standard: Passivhaus Plus	80% New developments have Heat Pumps	Non-Electricity Fuel Mix: New Development / Existing Dwellings Gas Grid: 0% / 70% Other Fuels: 0% / 12% District Heating: 8% / 8% Biomass 92% / 10%
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New Build Housing Standard: Passivhaus Premium

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%
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74% Reduction By 2040



2033: Commence sixth carbon budget period	2035: Can on sale of new gas boilers	2035: Target for 78% reduction in emissions	2040: Oxford City target date for Net Zero	2045 Vale of White Horse target date for Net Zero	2050 West Oxfordshire target date for Net Zero
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92% Carbon Reduction By 2050

100% Existing Properties min EPC B	New Build Housing Standard: Passivhaus Premium	80% New developments have Heat Pumps	Non-Electricity Fuel Mix: New Development / Existing Dwellings Gas Grid: 0% / 50% District Heating: 20% / 20% Biomass 80% / 30%
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Net Zero Oxfordshire



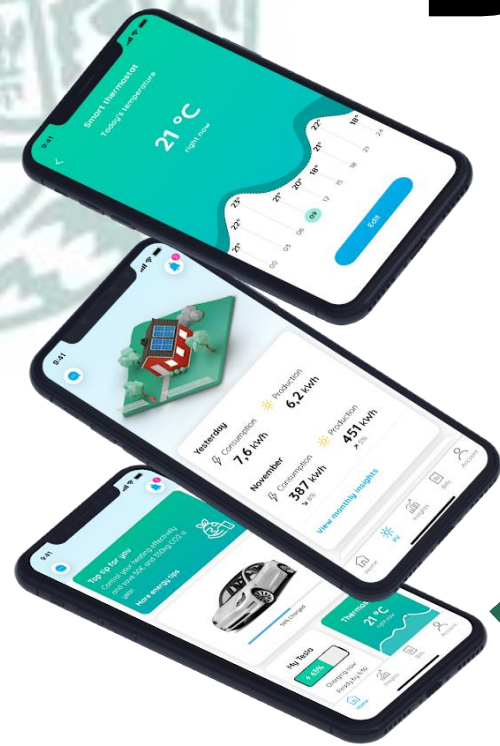
% changes are the total (cumulative change) at that date

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.



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

Barriers to scaling retrofit delivery



Retrofit Strategy



LEVELLING UP
UK:SPF



Energy is changing from
Blockbuster to **Netflix**

And it's driving the Energy Transition

Part of the **DESNZ Alternative Energy Markets
programme**



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Energy Saver App

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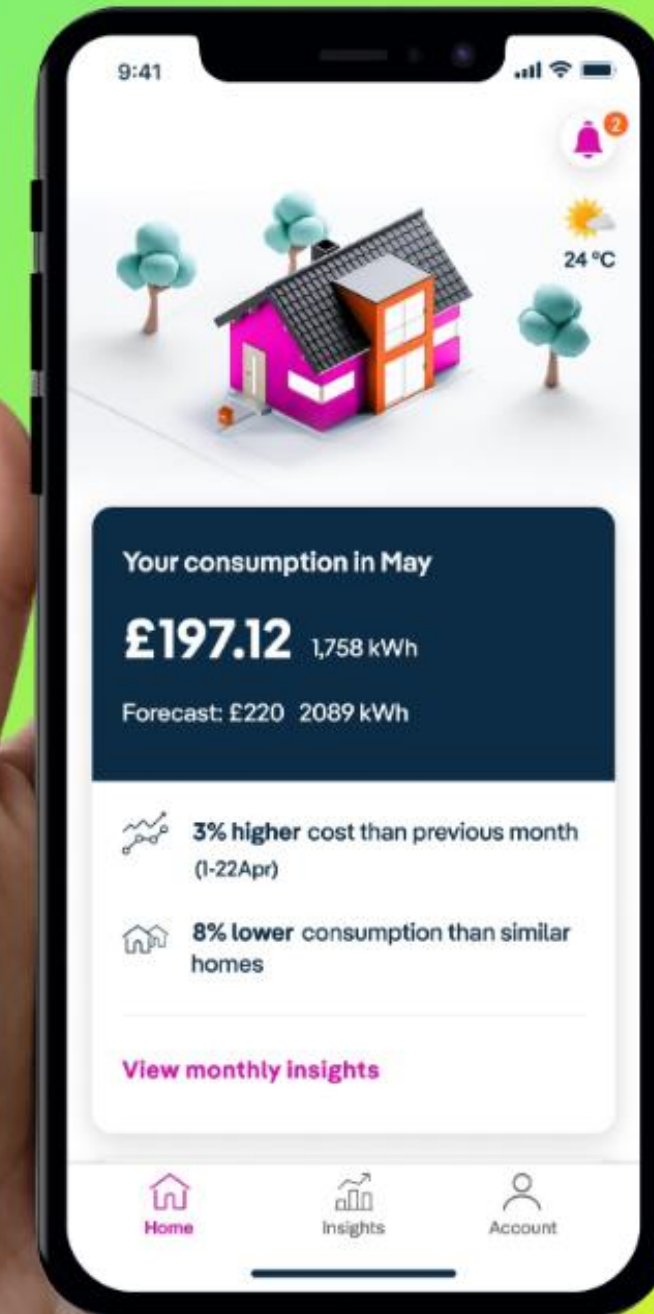
Take control of your home energy

Get personalised insights based on your energy use and unleash the power of your smart meter to...

- Use less gas and electricity at home
- Save [£200 a year](#) on your energy bills
- Reduce your household emissions

Download on the
App Store

GET IT ON
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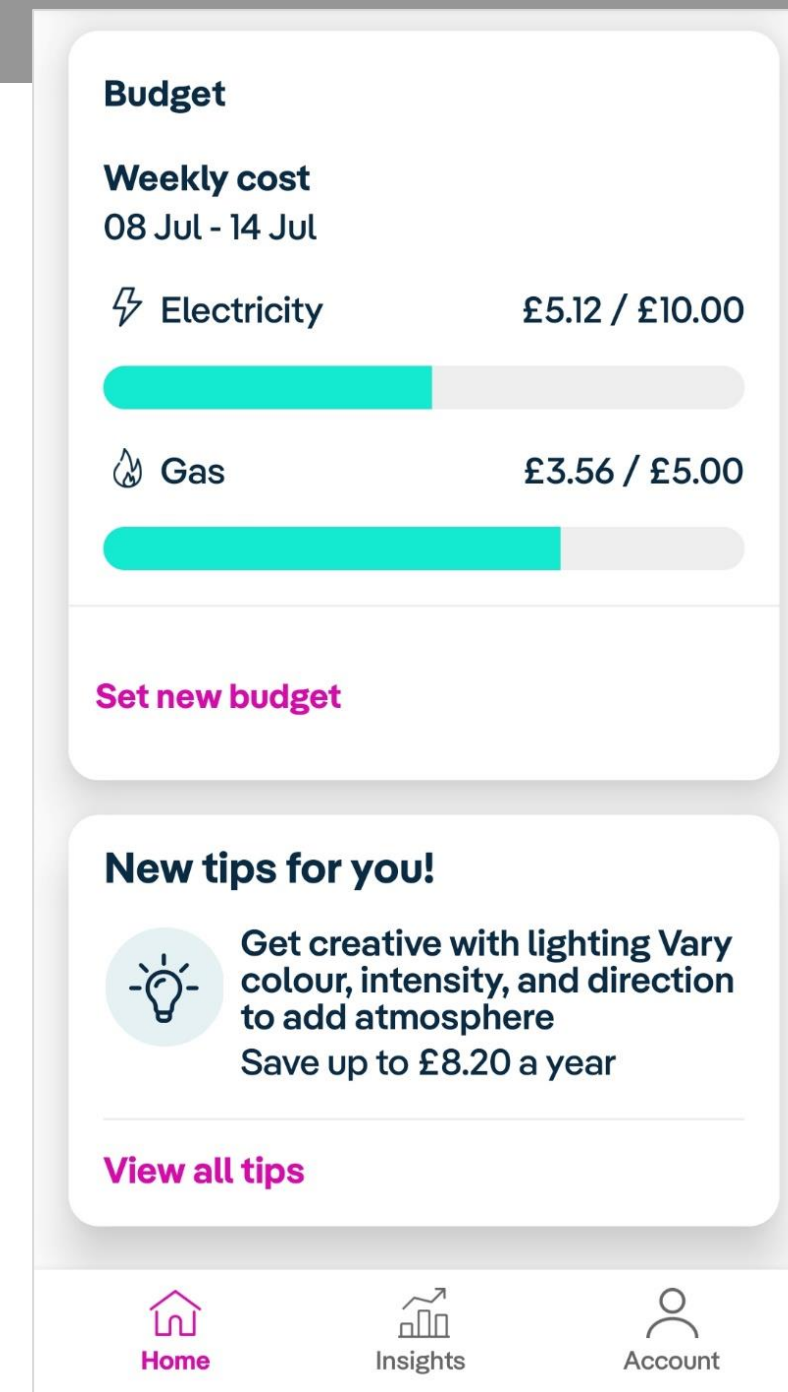
Tracking your energy use



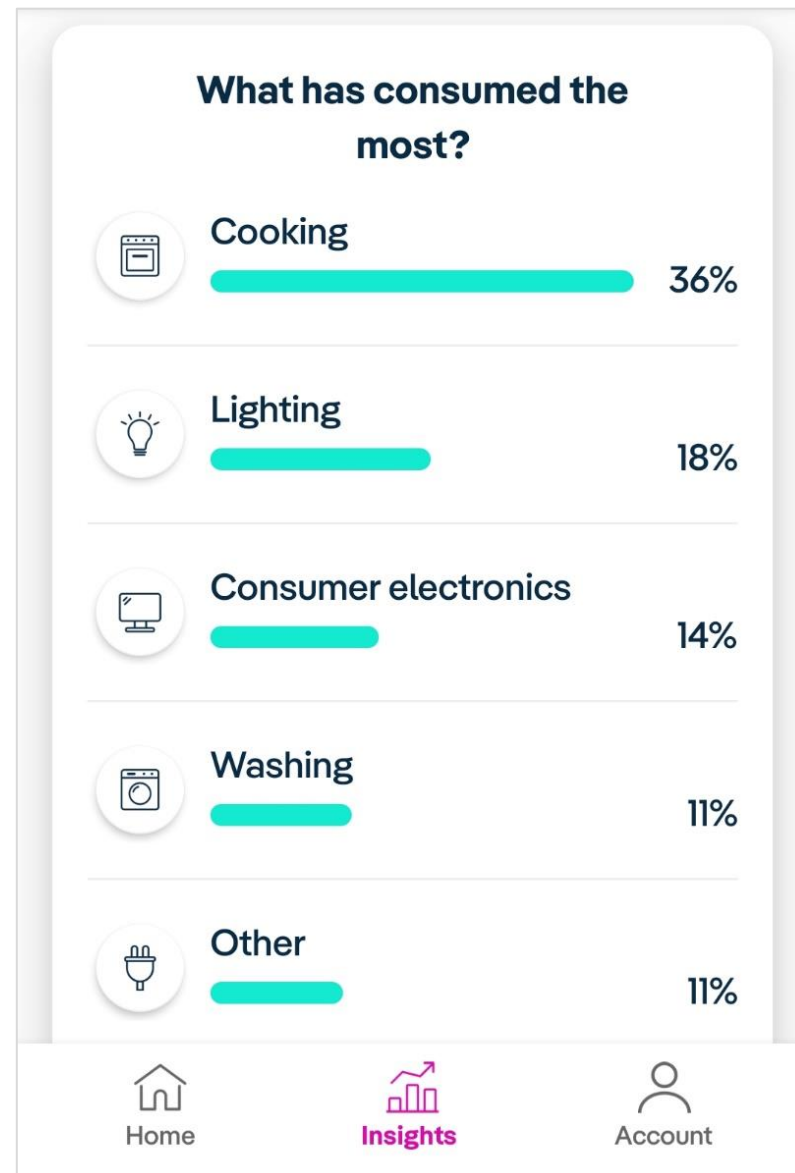
- Understand your gas and electricity use over time.
- Track your usage in pounds and pence, or energy (kWh)
- Compare with previous months

Setting a budget

- Set weekly and monthly budgets
- Monitor progress
- Puts you in control of your spending



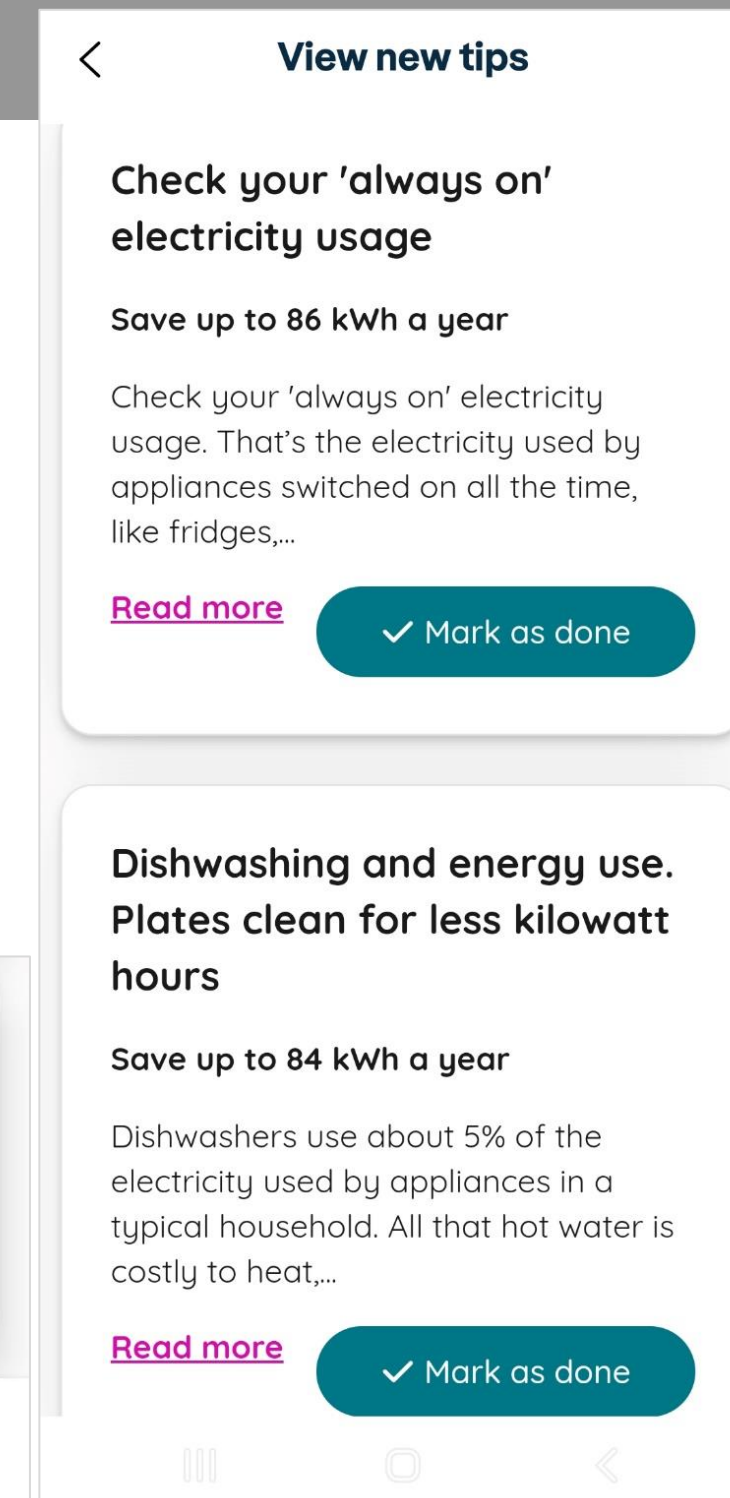
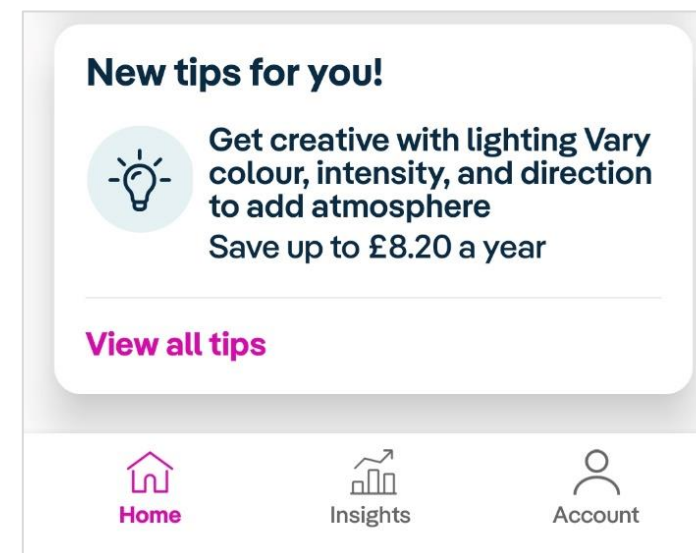
Understand your usage



- Identify what is consuming the most electricity
- AI/Machine Learning assesses usage based on energy patterns of large numbers of homes
- Informs you what is contributing to your energy bills, and by how much

Ways to save money

- Tips tailored to your home
- Reinforces budgeting
- Helps users achieve £200+ savings



BBC News - Government-backed solar and battery trial through Energy Saver App



What does this achieve?

Policy change – to how we buy and sell energy, that's fit and supports retrofit and transition to ESAs

Potential to “open up” the domestic flexibility market

Could drive Energy Suppliers further innovation in ToU and Flexibility tariffs

Tests the impact of residents' trust in local authority support in the Energy Transition

Local Authority enabled to drive retrofit programmes

Creates a marketplace of innovative flexibility and funding models to be trailed



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www.oxfordshire.gov.uk/retrofit



Questions

Dale Hoyland

LinkedIn:- [linkedin.com/in/dale-hoyland-bsc-hons-msc](https://www.linkedin.com/in/dale-hoyland-bsc-hons-msc)



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