

Welsh Government 2021

# Net Zero Wales

## Sharing the Journey for a Better Future - Carbon Budget 2021-25 & setting Wales on a Pathway for Net Zero

- › **A decade of action** - we need to make more progress in the next ten years.
- › **Collective Action** - every business, public body, community group and citizen in Wales to embed the climate emergency in the way they think, work, play and travel.
- › **We call on the UK Government** to take the action which is needed to unlock a green future in Wales.
- › **Just transition** - we leave no-one behind as we move to a cleaner, stronger, fairer Wales.
- › **Economic Prosperity** - that is fair and built on a wellbeing economy.

**123**

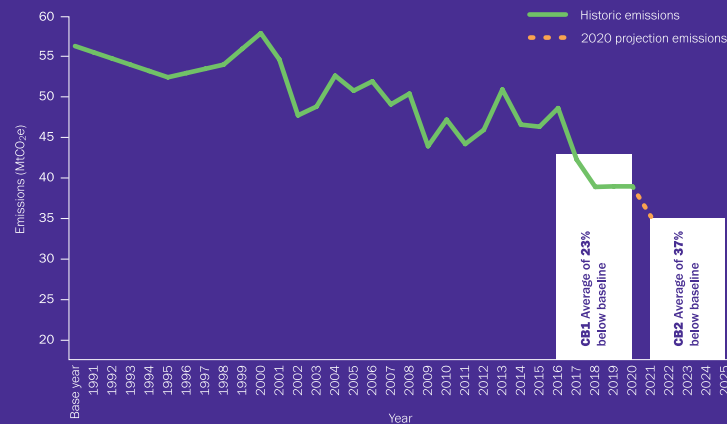
Contains **123 policies & proposals** across all ministerial portfolios.

**118**

**118 Pledges** from organisations and individuals committing to take action.

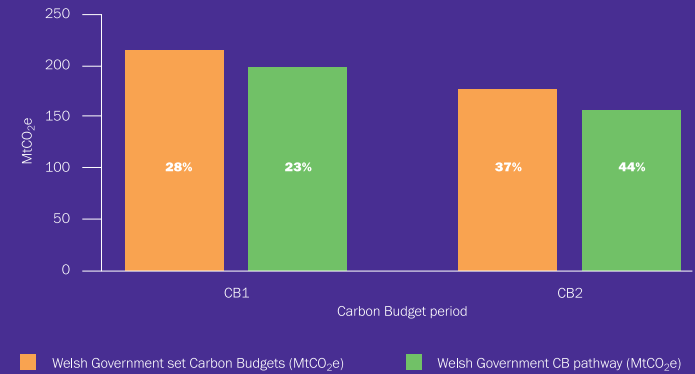
### Our Pathway to Net Zero

#### Total Welsh emissions - historic data, future targets & budgets

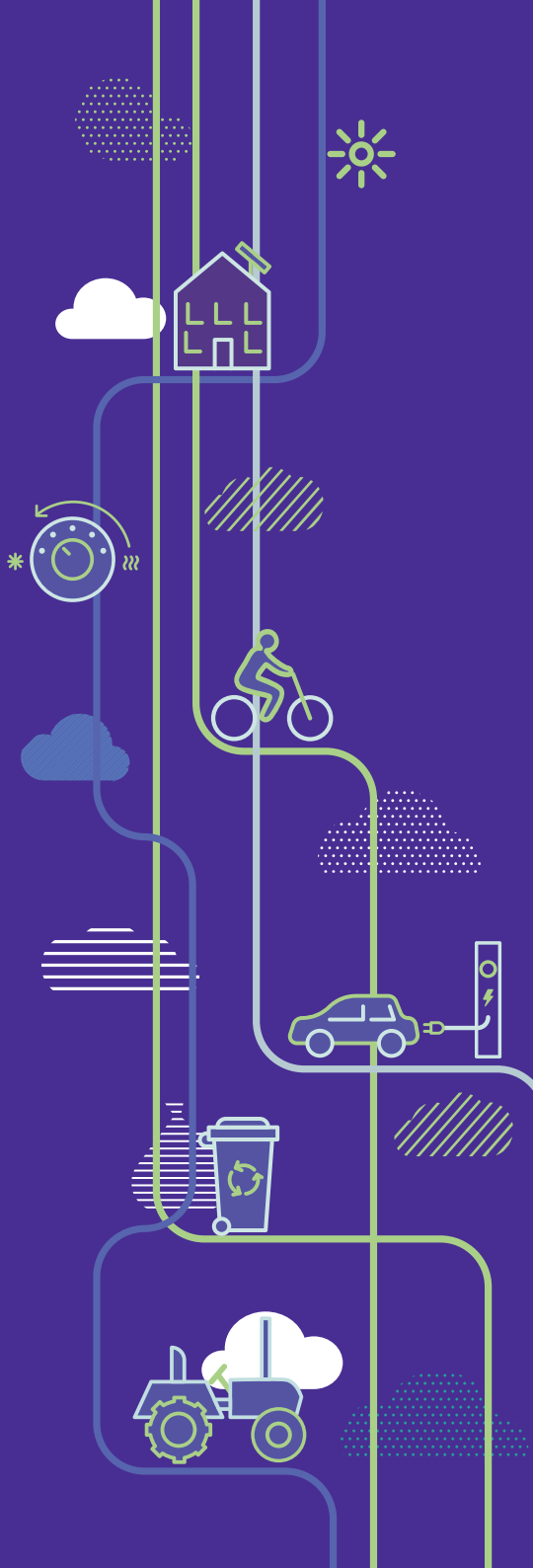
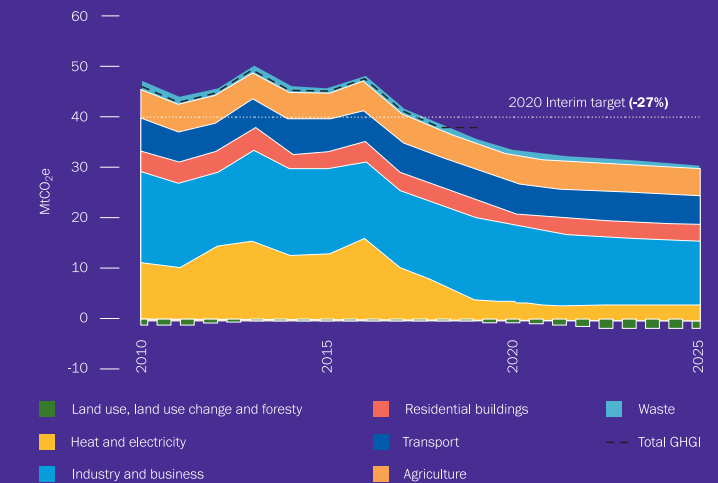


### Welsh Government Carbon Budget 2 Pathway

Our modelling shows we are on track for Carbon Budget 2 (37%) and will achieve a 44% reduction against the baseline.



### Welsh Government CB2 Pathway by Sector (MtCO<sub>2</sub>e)



# Setting the Conditions

## › Just Transition

› **Join up action to realise multiple benefits from our actions**

› **Taking a place based approach**

› **Invest in the net zero economy**

› **Skills for a green recovery and transition to net zero**

› **Science and Innovation**

› **Digital economy**

› **International Action**

› **Collaboration and involvement**

› **Working with people**

# Policies & Proposals to drive down emissions



## Electricity & Heat Generation

- › **Decarbonising electricity production** from fossil fuels - gas with Carbon Capture Utilisation and Storage and fuel switching to green hydrogen
- › Increasing electricity from **low carbon and variable renewables**.



## Residential Buildings

- › **Energy Efficiency** - Setting demanding standards for new build, and existing properties, with the social housing sector leading the way.
- › **Low Carbon Heat** – Phase out fossil fuel heat sources.
- › **Behavioural shift and demand reduction** – examine how behavioural and societal shifts could lead to reduced demand and the energy efficiency of appliances.



## Land Use Land Use Change & Forestry

- › **Increasing Tree Cover** – policies and proposals to increase tree cover by planting new woodland and improved woodland management.
- › **Safeguarding & Increasing other carbon stores in soils** - by restoration of peatland and 'blue carbon' habitats



## Transport

- › **Demand reduction and modal shift** - how behavioural and societal shifts could reduce or change demand for travel;
- › **The technological options** available and the uptake of transport with low or zero emissions
- › Improvements to **fuel efficiency** in conventional vehicles.



## Industry & Business

- › **Resource and energy efficiency** - product replacement, material substitution, waste reduction, energy efficiency – equipment, heat recovery, clustering;
- › **Fuel switching** – the change to low carbon fuels including hydrogen;
- › **Carbon capture storage/utilisation and storage** - carbon capture and storage, bioenergy with carbon capture and storage (BECCS), and hydrogen plants; and
- › **Commercial buildings** – increase efficiency of our commercial buildings stock.



## Waste Management

- › **Landfill** – Reducing the greenhouse gas emissions from landfill sites.
- › **Recycling** – To achieve 70% recycling across all major waste streams
- › **Behaviour change** – To promote recycling and further reduce waste.



## Agriculture

- › **Low Carbon Farming Practices** – increasing measures on farm which reduce emissions from soils (e.g. grass leys and cover crops), livestock (e.g. diets, health and breeding) and waste and manure management.
- › **Measures to release land** - Changes in consumer and farmer behaviour can release land from agriculture while maintaining a strong food production sector.



## Public Sector

- › The public sector to be collectively net zero by 2030



Llywodraeth Cymru  
Welsh Government