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.

Our Pathway to Net Zero
Total Welsh emissions - historic data, future targets & budgets

123
Contains 123 policies & proposals across all ministerial portfolios.

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

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 (MtCO2e)

- Land use, land use change and forestry
- Residential buildings
- Heat and electricity
- Transport
- Industry and business
- Agriculture
- Waste

2020 Interim target (27%)
Policies & Proposals to drive down emissions

### 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**

### 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

### 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

### 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

### 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

### Agriculture
- Low Carbon Farming Practices – increasing measures on farm which reduce emissions from soils (e.g. grass ley 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

### 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

### 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

### Public Sector
- The public sector to be collectively net zero by 2030