

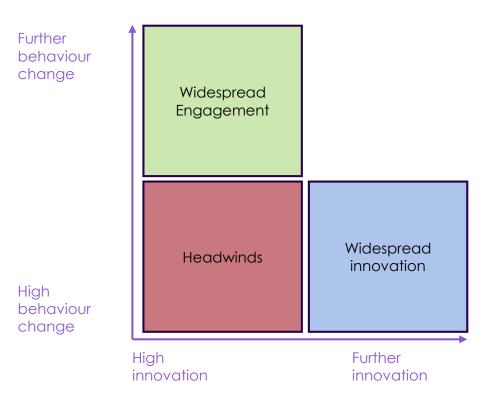
The Path to Net Zero in Wales

Advice on Wales climate targets



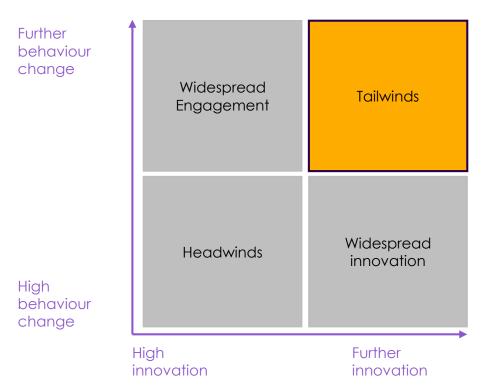


A balanced pathway to keep options open





A balanced pathway to keep options open





A balanced pathway to keep options open

Further behaviour change

Widespread Tailwinds Engagement Balanced Net Zero Pathway Widespread Headwinds innovation High Further

High behaviour change

innovation

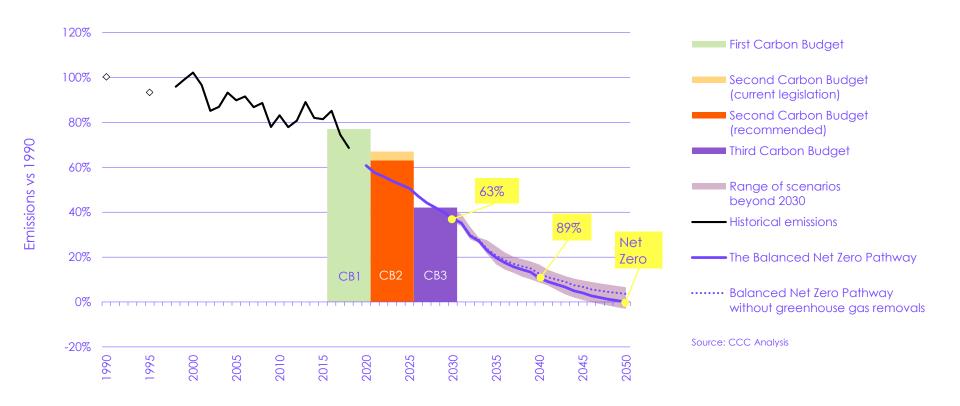
innovation

Our recommended pathways



Our recommended path for Wales

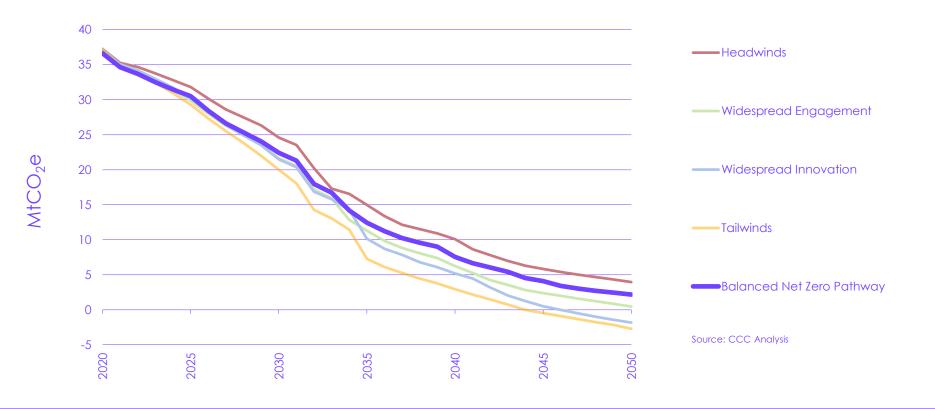
The recommended 2050 target and interim targets





Our recommended path for Wales

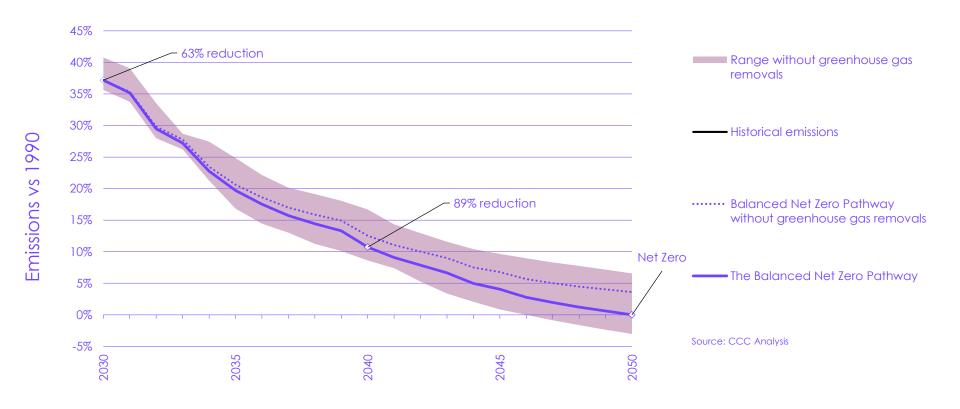
Scenarios for Wales without engineered removals





Our recommended path for Wales

A route to Net Zero in Wales





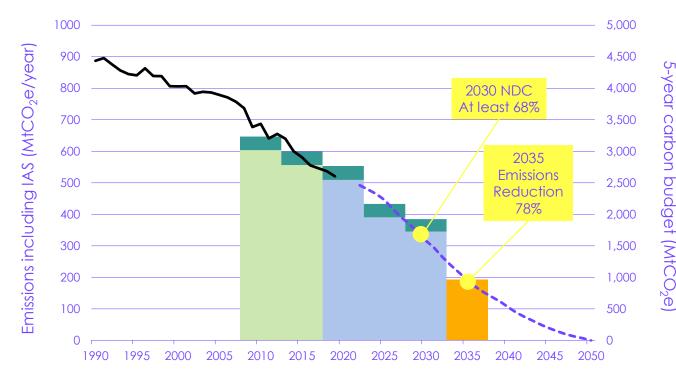
10

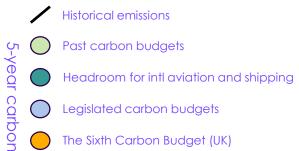
Supporting UK targets and international efforts



Wales supporting the UK's Sixth Carbon Budget

The recommended Sixth Carbon Budget and the 2030 NDC already submitted by the UK







The Sixth Carbon Budget (UK)

Notes:

Emissions shown including emissions from international aviation and shipping (IAS) and on an AR5 basis, including peatlands. Adjustments for IAS emissions to carbon budgets 1-3 based on historical IAS emissions data; adjustments to carbon budgets 4 and 5 based on IAS emissions under the Balanced Net Zero Pathway.

Source:

BEIS (2020) Provisional UK greenhouse gas emissions national statistics 2019; CCC analysis.

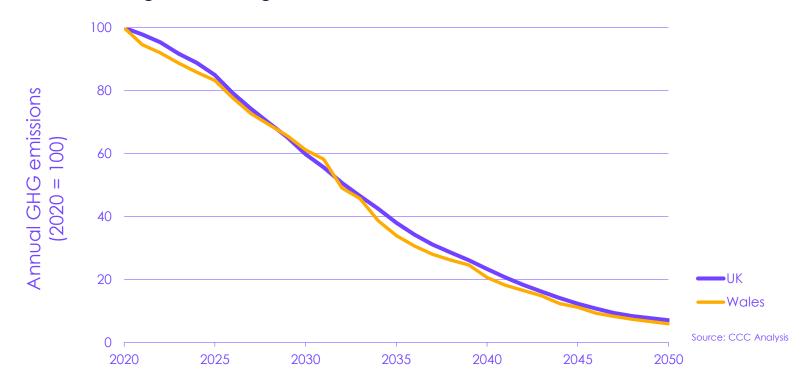
12



Recommendations

Wales supporting the UK's Sixth Carbon Budget

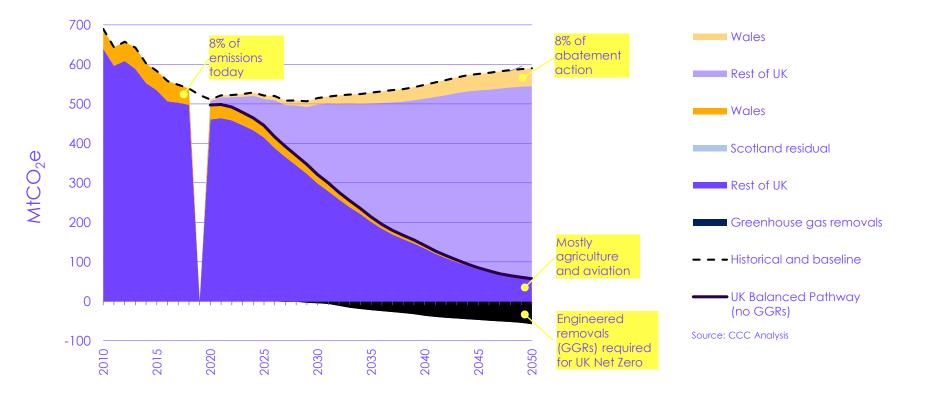
Like-for-like comparison of emissions pathways, excluding aviation and greenhouse gas removals





Wales supporting the UK's Sixth Carbon Budget

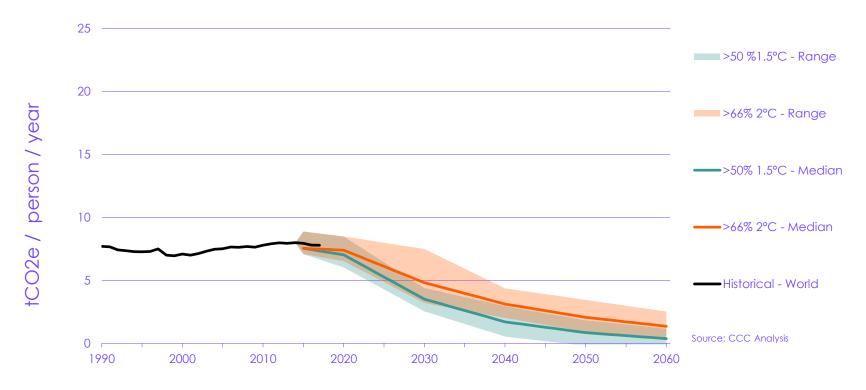
Contributing to UK targets





Wales supporting the UK at COP26

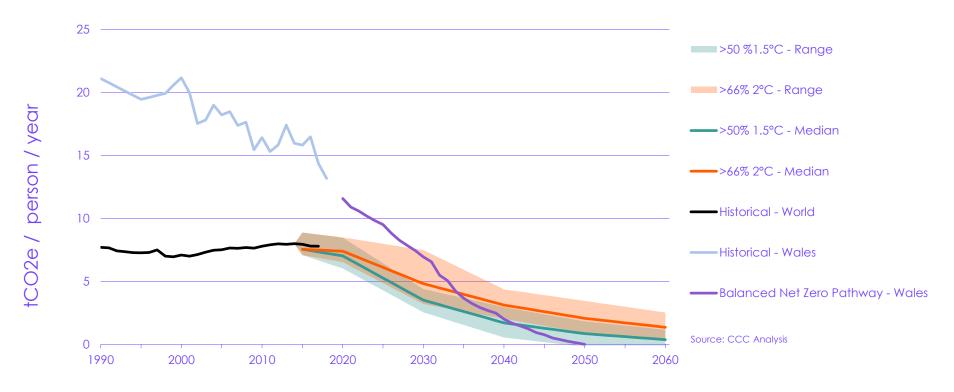
Per person emissions in Wales vs global requirements of Paris





Wales supporting the UK at COP26

Per person emissions in Wales vs global requirements of Paris



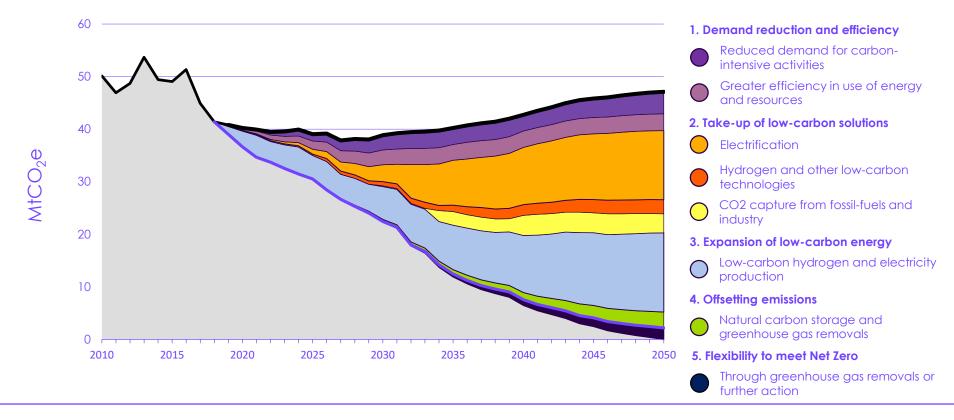


Delivering Net Zero in Wales



Emissions abatement

Meeting the Net Zero requires actions across four key areas – with some additional flexibility required to meet the Net Zero



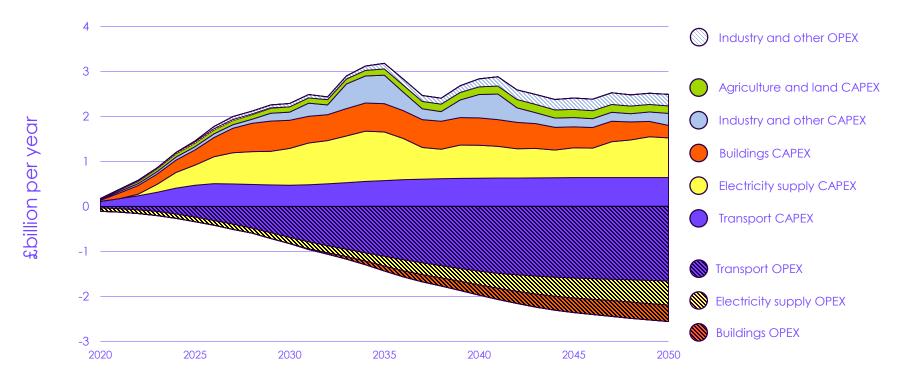


Delivering Net Zero in Wales

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Investing for Net Zero

Major investment programme in Wales, delivering offsetting operating cost savings



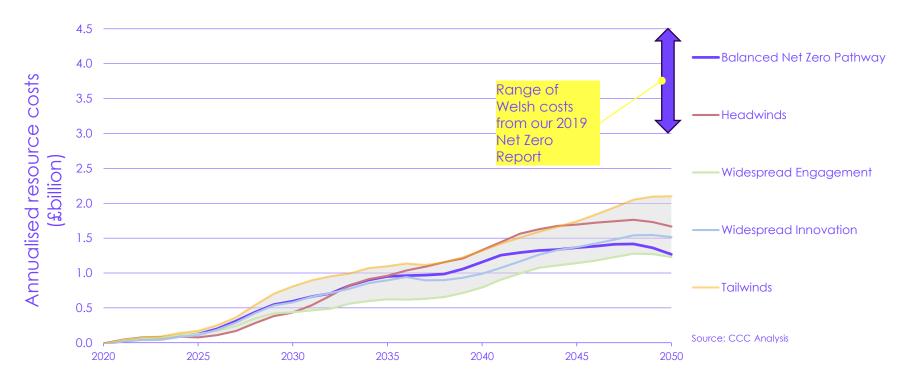




Delivering Net Zero in Wales

Resource costs

Change in resource costs over time in Wales

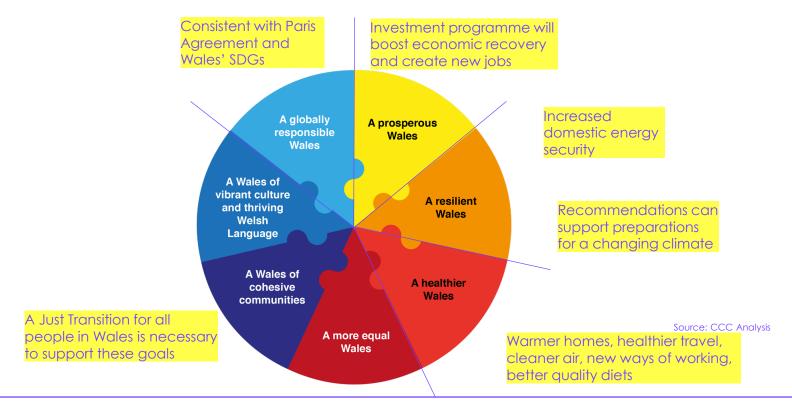


Source: CCC analysis.



Well-being of Future Generations

Net Zero is consistent with Wales' Well-being Goals





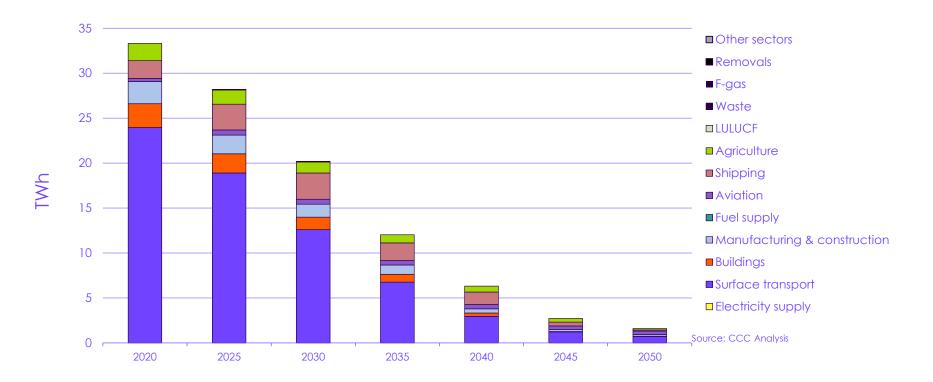
Delivering Net Zero in Wales

21

What does Net Zero look like?



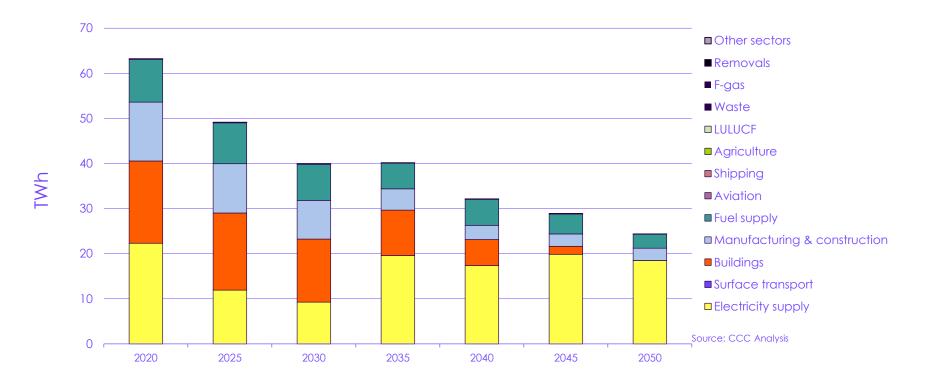
Changes in energy demand Oil (TWh)





Changes in energy demand

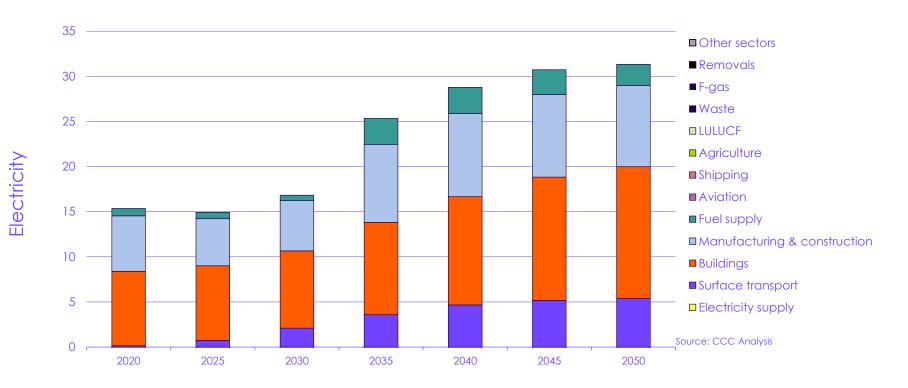
Natural gas (TWh)





Changes in energy demand

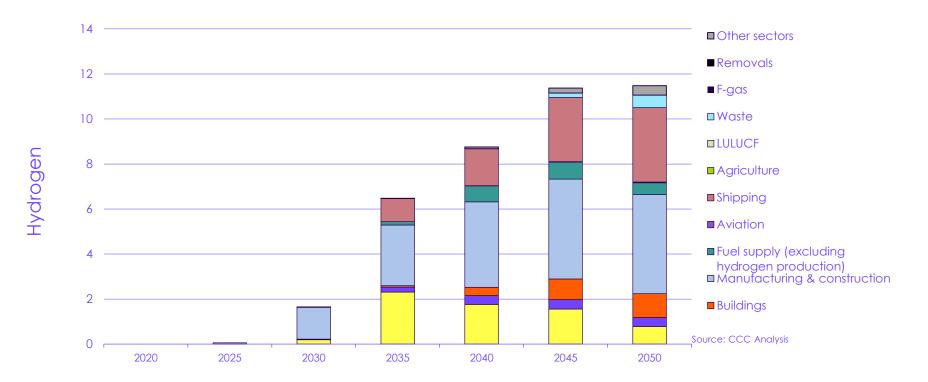
Electricity (TWh)





Changes in energy demand

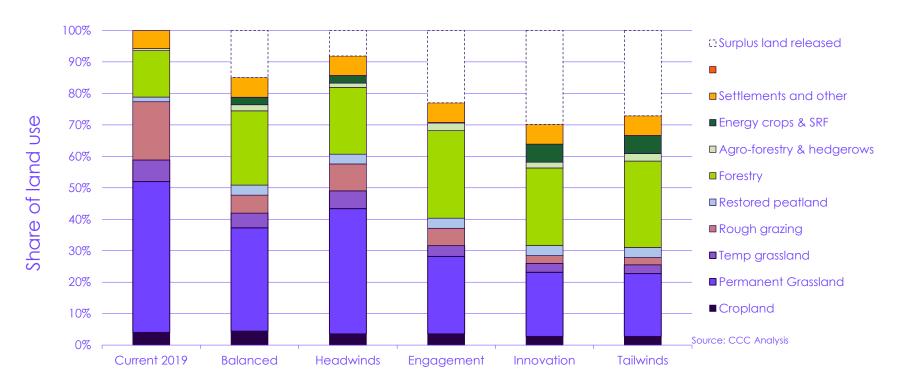
Hydrogen (TWh)





Changes in land use

Land area in 2050 (%)





Policy timeline

2021 will be busy

Date	Outcomes and Milestones	
Before COP 26 (November 2021)	 Wales to legislate Net Zero and interim targets 2021 Senedd election Wales' next Low Carbon Delivery Plan UK to legislate the Sixth Carbon Budget at 965 MtCO₂e, including emissions from International Aviation and Shipping (IAS) Net Zero strategy Energy White Paper Heat and Buildings Strategy New carbon pricing regime following EU ETS Transport decarbonisation plan Final HMT Net Zero review Hydrogen strategy, and consultation on hydrogen business models Rail decarbonisation strategy Industrial decarbonisation strategy Industrial decarbonisation strategy Net Zero carbon hospital standard, and further commitments towards delivering a Net Zero NHS Publication of Greening Government Commitments Ofgem's final business model approvals for the RIIO-ED2 period should accommodate network upgrades for EVs and heat pumps Aviation decarbonisation strategy Next Contract-for Difference allocation round, targeting large volumes of renewables, towards 40 GW offshore wind by 2030 	 Build on the UK's NDC to increase global climate ambition in the run up to COP26 Strengthened UK Adaptation Plans Updated Green Book guidance on climate change Decision on funding model for CCS infrastructure MOD review of climate change and defence Call for evidence on policy for GHG Removals (GGRs) Consultation on mandatory food waste reporting Consultation on including maritime in Road Transport Fuel Obligation (RTFO) Conclusion of Green Jobs Taskforce Environmental Land Management pilots Implementation of minimum device standards for EV chargers



Policy and priorities

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