



Climate Change
CHIEF EXECUTIVES BOARD

Target 9 technical annex

For quarter ending 31 December 2024



This technical annex provides metadata, analytical notes and source information for the Target 9 trajectory graph.

Indicator	Note	Source
Target 9 trajectory graph	<p>This graph shows historical and estimated trajectory data. Emissions are shown in megatonnes of CO₂-e, using 100-year global warming potentials (GWP100) from the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5).</p> <p>Historical data includes gross Greenhouse Gas Inventory and LULUCF target accounting quantities generated by the Land Use and Carbon Analysis System (LUCAS) Calculation and Reporting Application (CRA) model to calculate net emissions from 2020 to 2021.</p> <p>Adjusted baseline data is used for 2022. The 2022 figure is consistent with the second emissions reduction plan (ERP2) and includes adjustments because of subsequent Stats NZ livestock and fertiliser revisions.</p> <p>From 2023 onwards, the estimated trajectory uses the central estimates from the 2024 Ministry for the Environment (MfE) projections with ERP2 new measures, from the Emissions in New Zealand (ENZ) model. ERP2 new measures projections include the impact of policies that were included in the ERP2 document.</p> <p>LULUCF target accounting quantities have previously been based on data provided by the Ministry for Primary Industries model. For this report, we are using reported estimates generated by the LUCAS CRA model as this now serves as the standard source for these accounting quantities. This shift reflects updated reporting requirements for tracking progress against New Zealand's Nationally Determined Contribution under the Paris Agreement, which began in 2024. The numerical difference between the two is relatively small.</p>	<ul style="list-style-type: none">• The Greenhouse Gas Inventory• Emissions in New Zealand – MfE projections as at December 2024, ERP2 new measures• Land Use and Carbon Analysis System Calculation and Reposting Application model – Land use, land-use change and forestry target accounting quantities. <p>For more information on the ENZ model and MfE projections, see the ERP2 technical annex.</p>

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