

Independent Advice on
Australia's

2035

Decarbonisation Target



The full report is published on the
[Climate Change Authority's website](#)



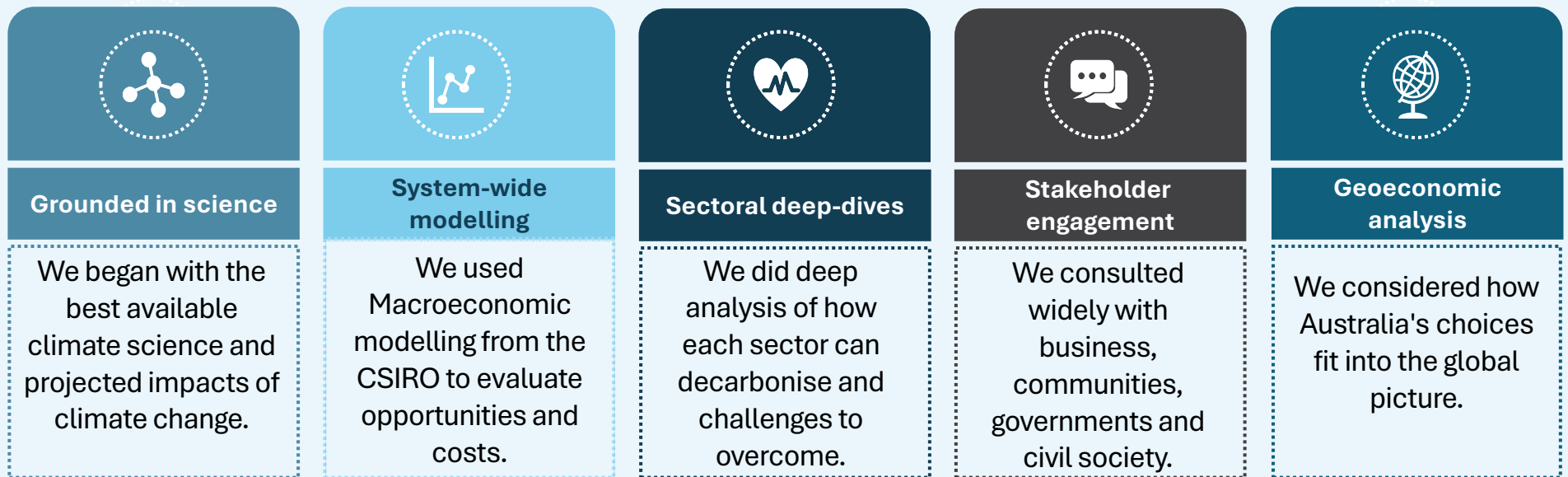
Allow me to introduce the Climate Change Authority



Independent, expert advice on Australia's 2035 emissions reduction target



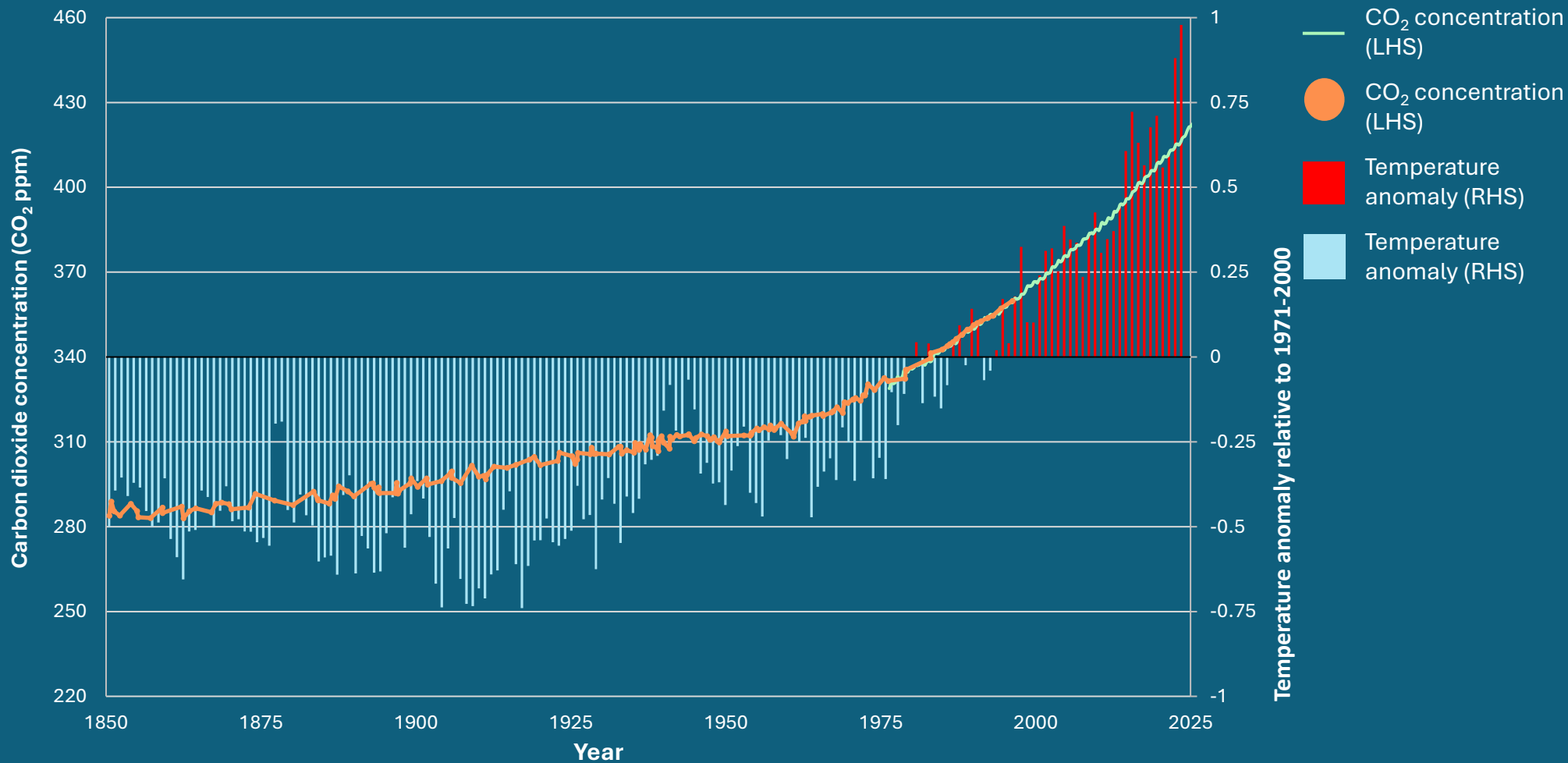
The Authority's recommended 2035 target is a 62–70% reduction in greenhouse gas emission from 2005 levels.





The science demands strong and urgent action

Carbon dioxide concentrations and temperature variations from 1850-2025



A 2035 target of 62-70% is ambitious, achievable and in Australia's national interest



AMBITIOUS

A 62–70% target meets the challenge of strong and urgent action. It involves halving Australia's current emissions.



ACHIEVABLE

This target can be achieved with the right leadership from government, harnessing contributions from every sector of the Australian economy.



NATIONAL INTEREST

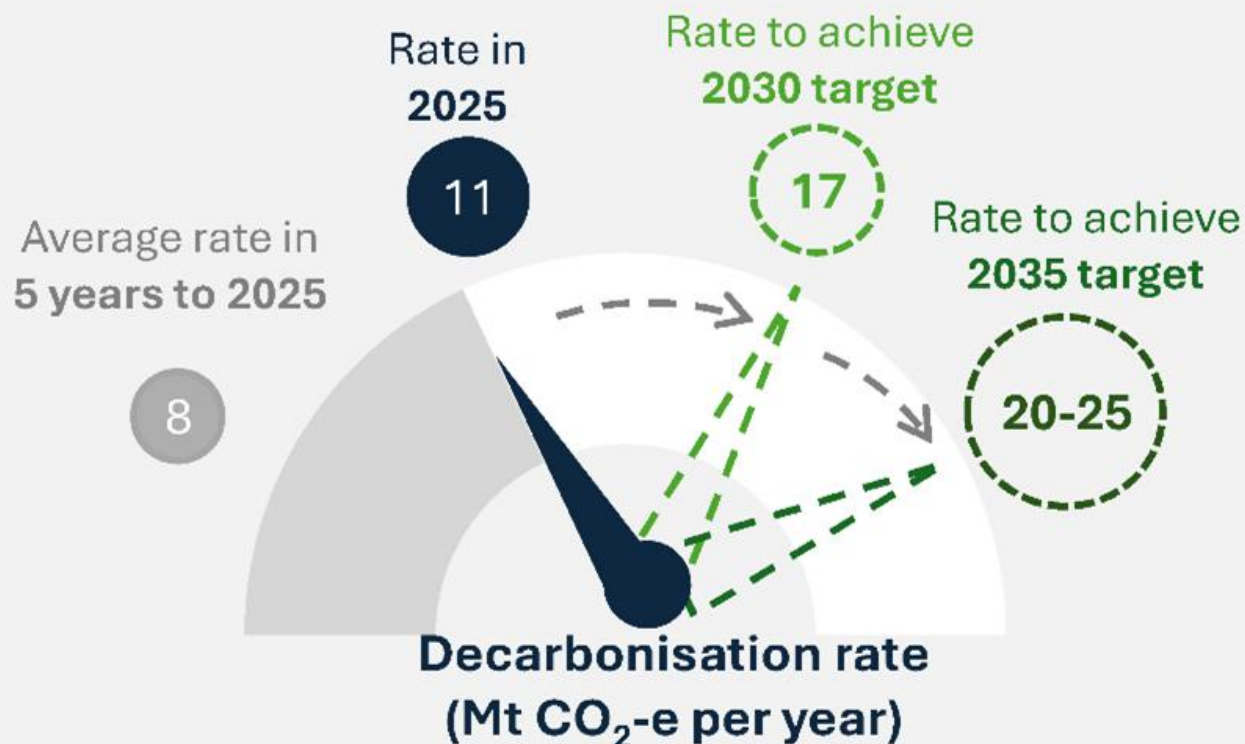
An ambitious target is in Australia's national interest, bringing economic, environmental and social opportunities for Australians. It will create good jobs in regions and economic opportunities for Australia to benefit from the global green energy transition.





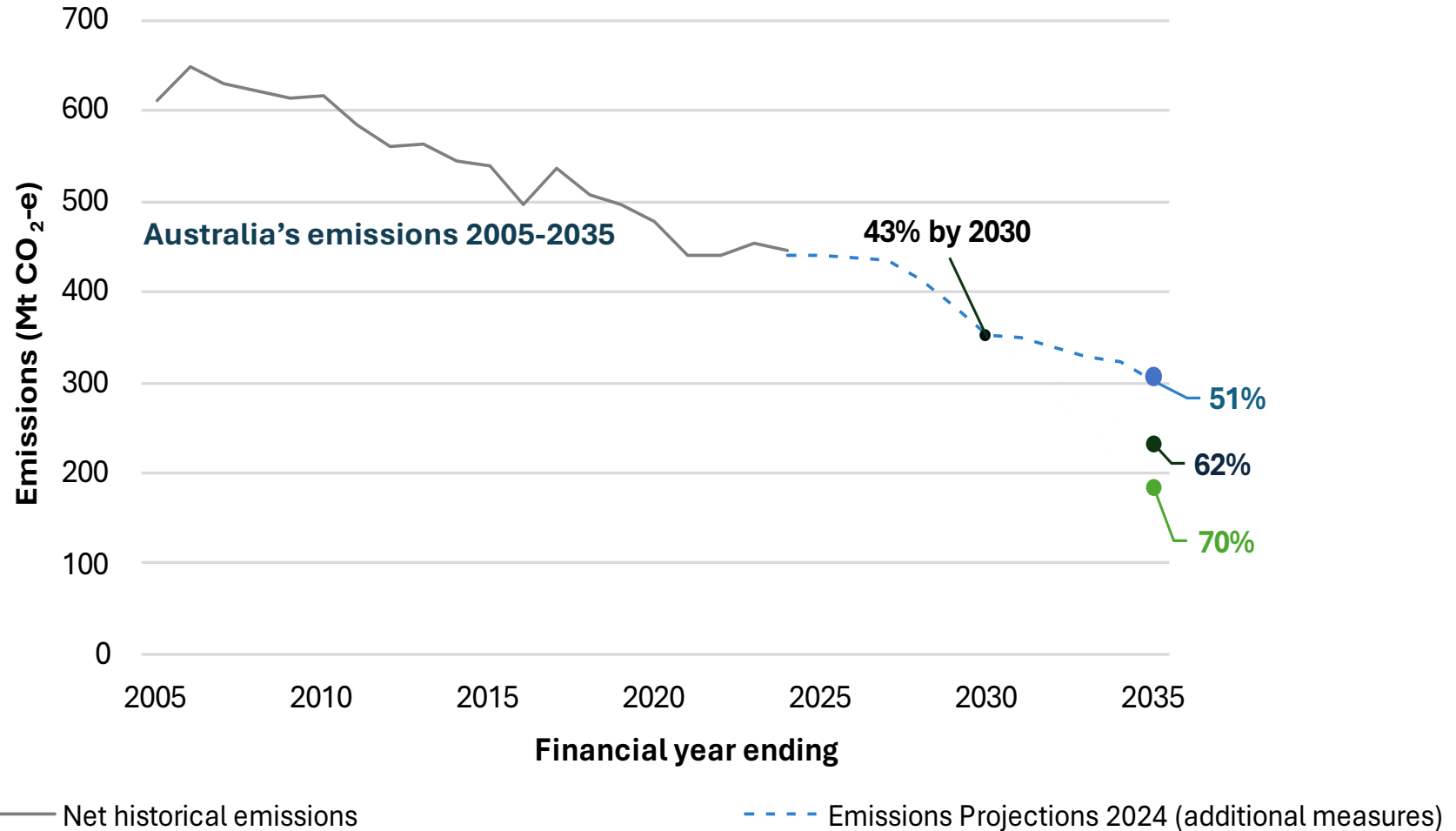
Australia needs to drastically increase its emissions reduction rate to achieve its targets

Australia's emissions reduction rate needs to increase by 65% to meet the 2030 target and approximately double to meet even the lower end of the 2035 target





Emissions reductions must speed up





**Meeting the
target won't be
easy.
It requires:**



Halving Australia's current emissions



More than doubling Australia's decarbonisation rate



Scaling up capacity in the National Electricity Market



Extending the Safeguard Mechanism's decline rate out to 2035



Half of light vehicles sold between now and 2035 being electric vehicles



Producing more sustainable aviation fuel and renewable diesel



Electrifying low temperature process heat in the industry sector



Increasing organics recycling rates from around 50% to more than 80%



Ceasing logging of old growth forests and halving re-clearing rates

There are barriers to overcome, but with the right strategies, we can get there

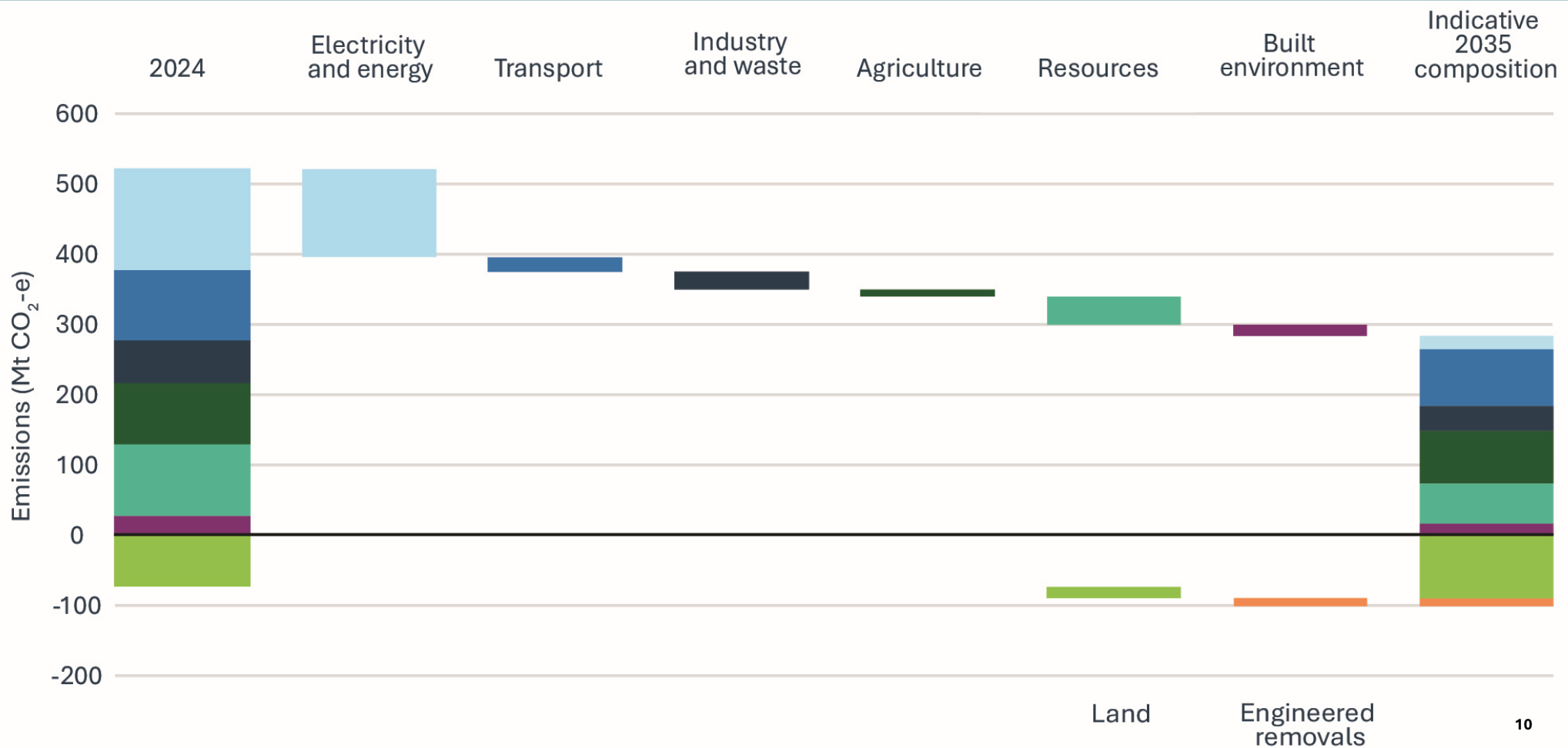
Securing Australia's transition to a prosperous net zero economy calls for overcoming a range of economic, social and regulatory barriers.

-  Overcoming the 'green premium'
-  Accelerating the slow and complicated development approval processes
-  Earning community understanding and support
-  Addressing constraints in supply chains
-  Building workforces, particularly in regional areas and highly skilled new industries
-  Filling the information and data gaps

Each sector will need to play its part

Different parts of the economy face different opportunities and challenges, and so the pace of emissions reductions will vary among them.

Estimated sector contributions to the top of the 62–70% target range, 2024–2035





Australia's contributions don't stop at the border

Australia's offshore contributions

1. Greater green export industries
2. Fewer fossil fuel exports, e.g. through trade partnerships
3. Greater finance flows (public and private)
4. Stronger capacity building
5. Enhanced technology transfer



Australia's domestic
2035 Target



A 62–70 % 2035 target is good for the economy

CSIRO modelling shows the Australian economy can be expected to keep growing an average of 2.7% each year, while achieving emissions reduction target of 62–70% by 2035.

The costs of replacing ageing fossil fuel-based electricity infrastructure are unavoidable.

The Australian Energy Market Commission projects residential electricity prices to fall by 13% (about 5c/kWh) and average household energy costs to fall by about 20% (around \$1,000/year) over the next decade compared to today under a coordinated renewables rollout.

Economic benefits to Australia of the global energy transition could be 5–8 times larger than the impacts of achieving ambitious emissions reductions by 2035.



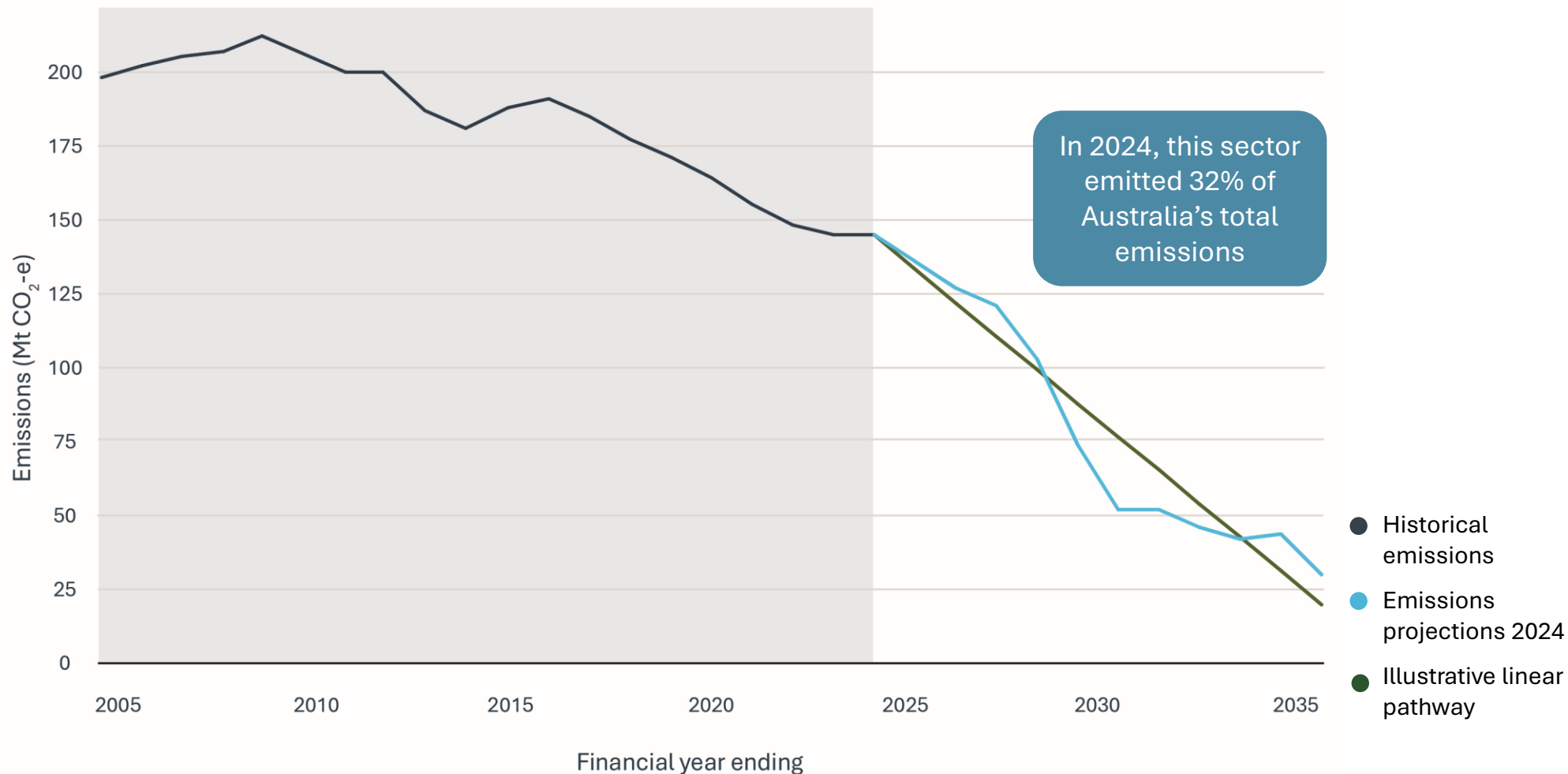
For more information on our 2035 Targets Advice,
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Electricity and energy

Rapid decarbonisation and expansion of electricity and energy are key to meeting an ambitious target

Electricity and energy emissions 2005-2035



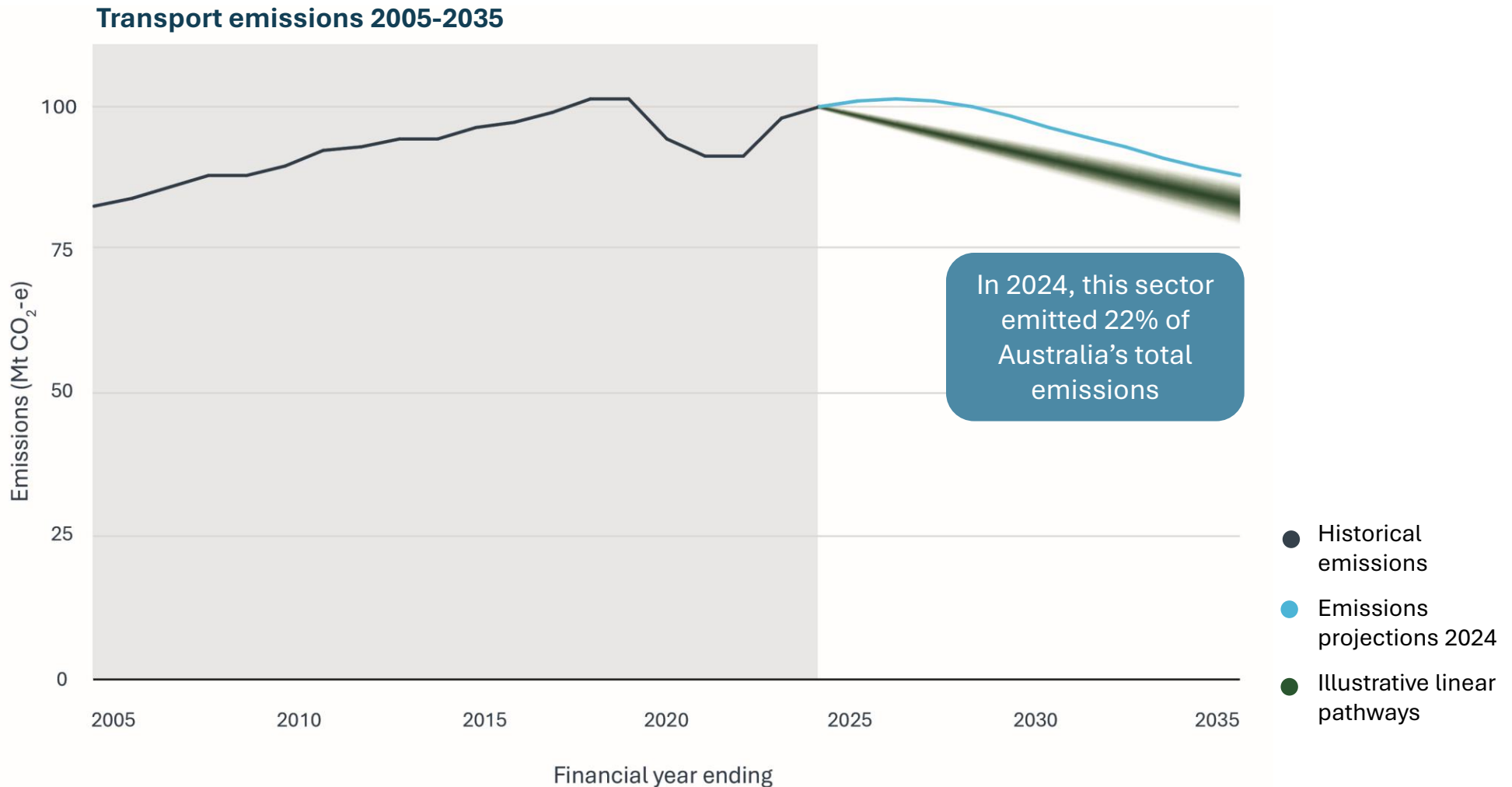
Transport

Electric vehicles are the key to reducing transport emissions

Australia can work towards electric vehicles making up most new light vehicle sales in 2035.

Increasing access to charging infrastructure will accelerate electric vehicle uptake.

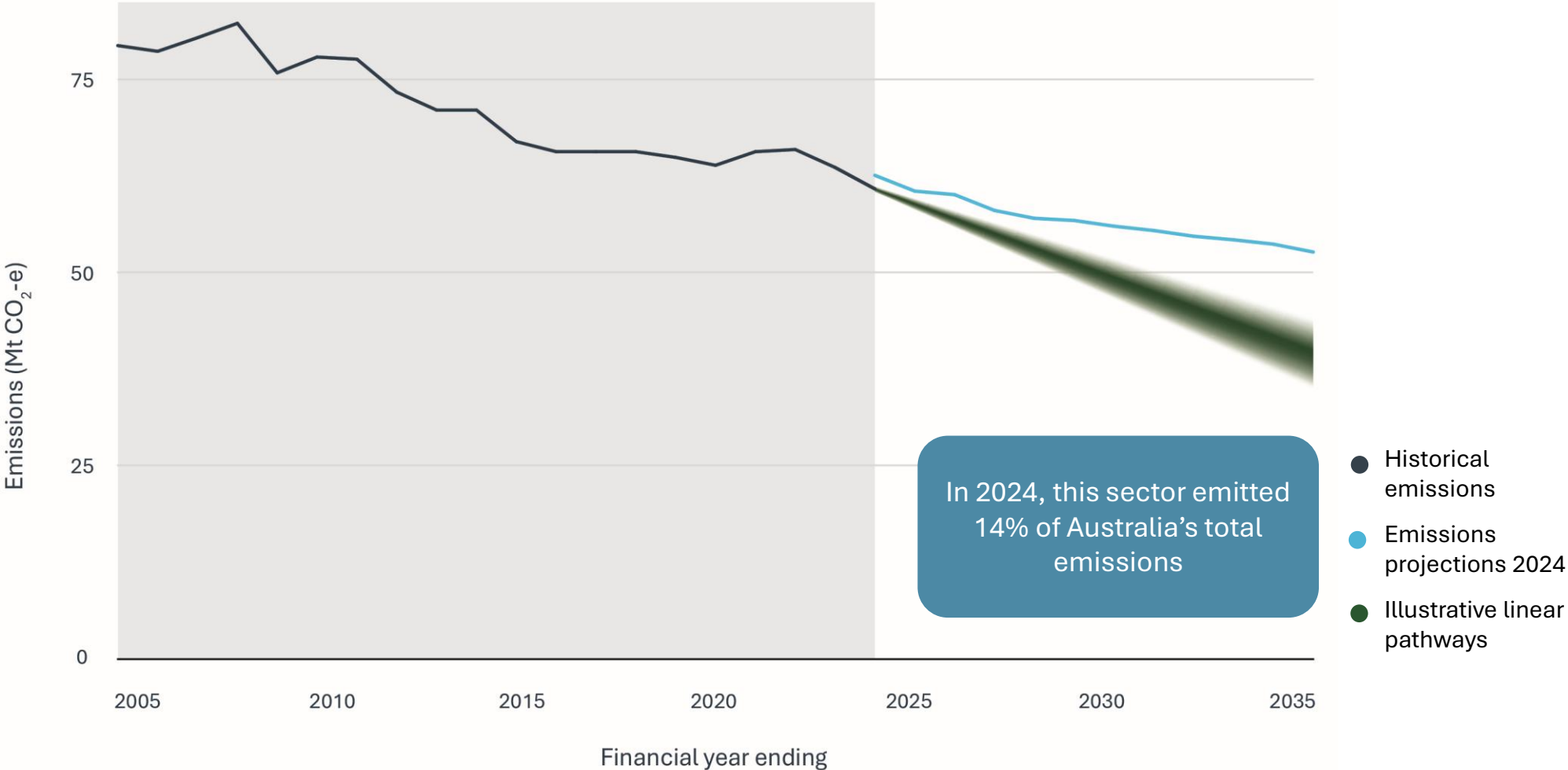
Low carbon fuels for heavy vehicles will increasingly be part of the solution.



Industry and waste

Electrification of industrial processes, with alternative fuels for high temperature processes can deliver progress

Industry and waste emissions 2005-2035

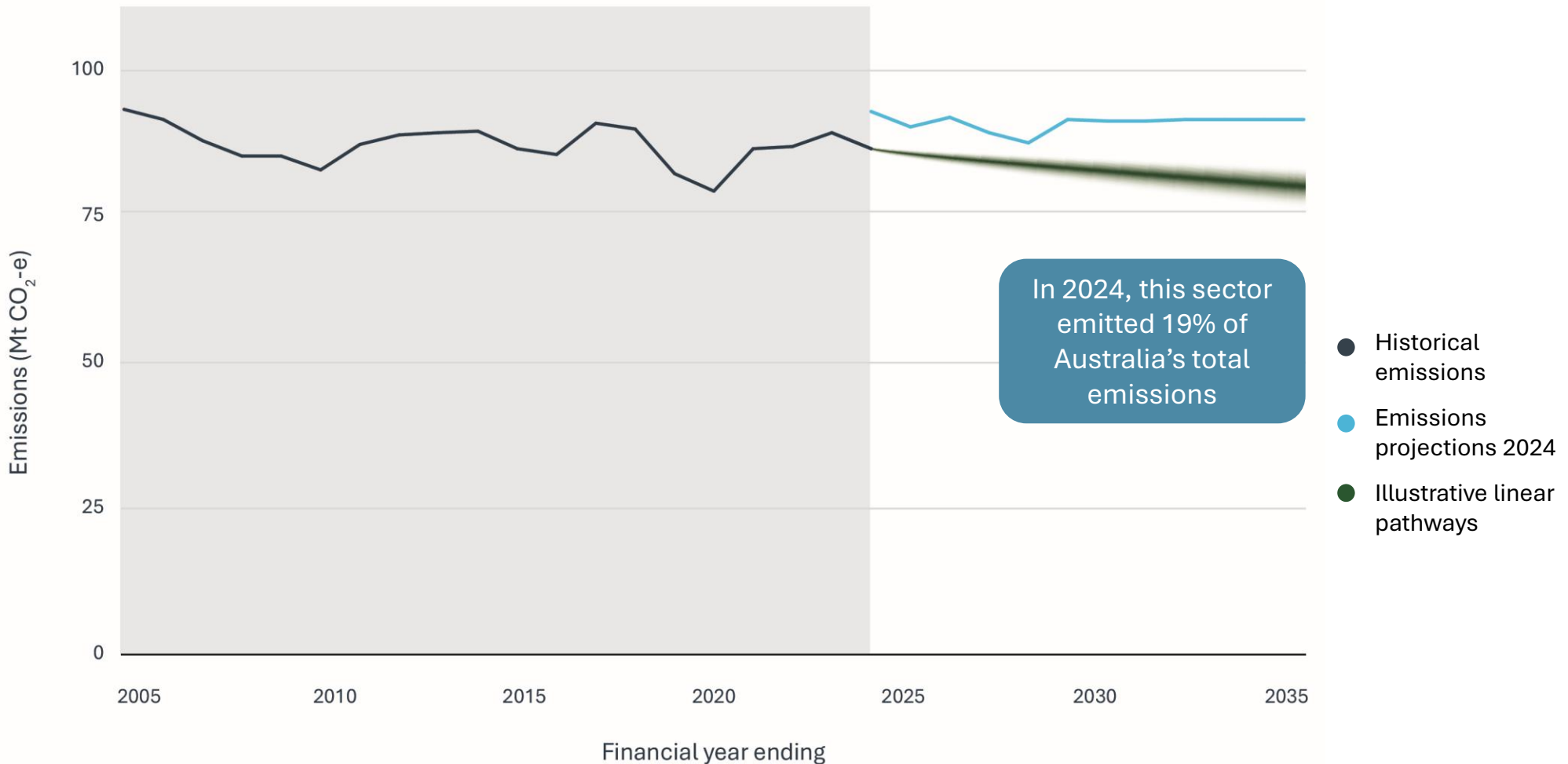


Agriculture

Reducing methane emissions from livestock can deliver agriculture sector abatement

The agriculture sector secures Australia's food security. It is also highly export-oriented, with 72% of the value of agricultural production sold overseas.

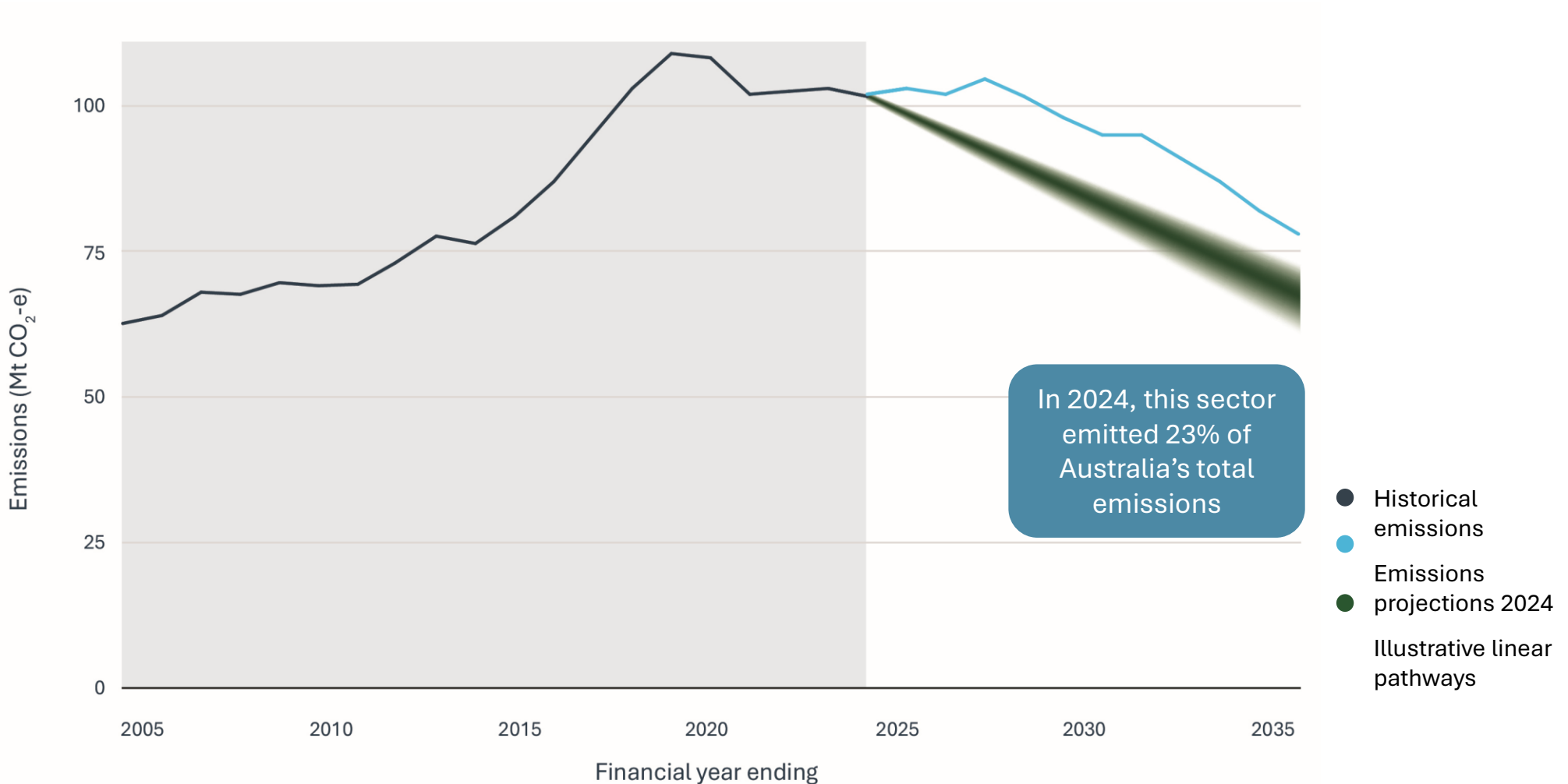
Agriculture emissions 2005-2035



Resources

Reducing fugitive emissions and electrifying will drive emissions reduction across the sector

Resources emissions 2005-2035

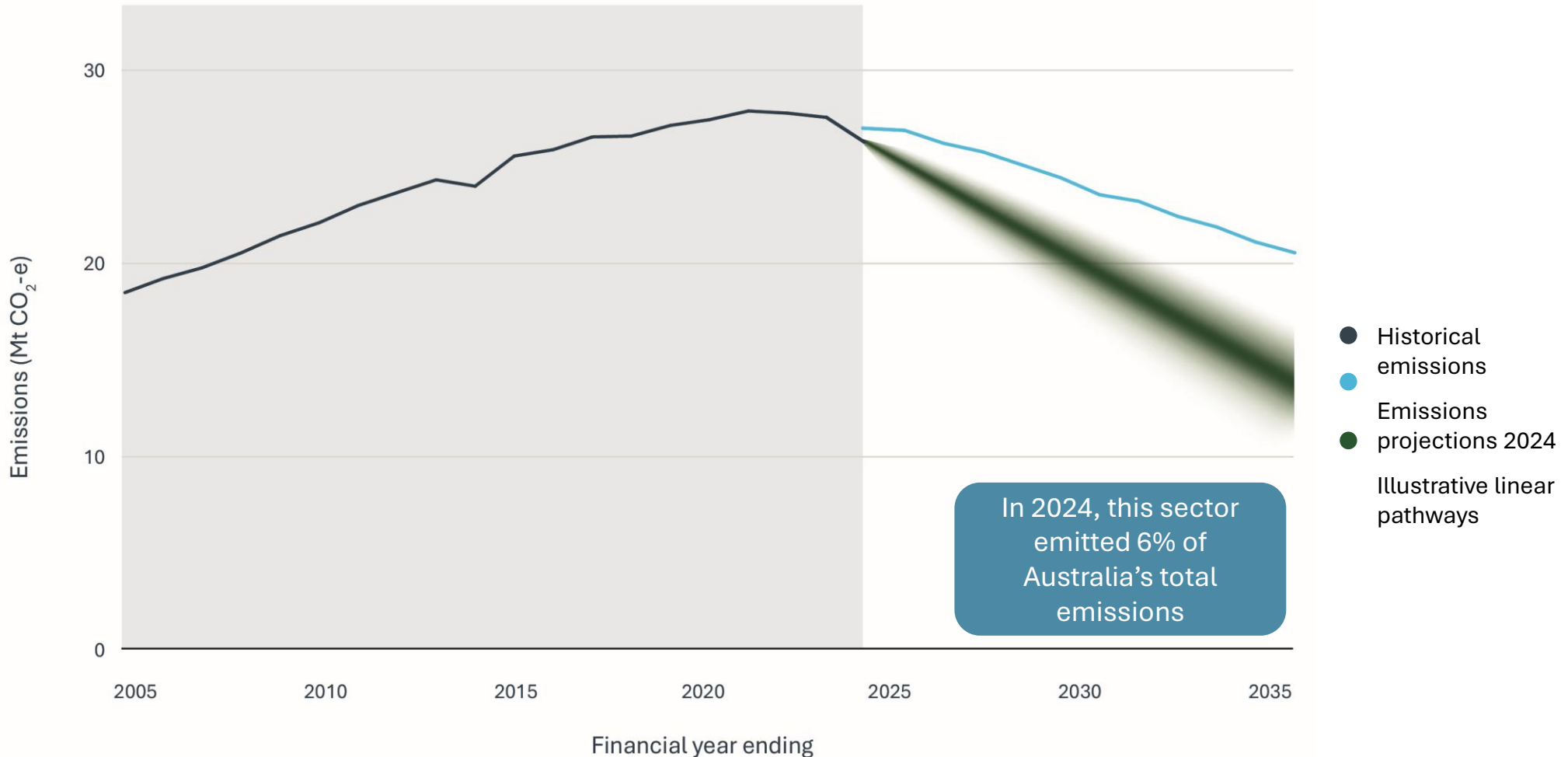


Built environment

Solutions are available and cost-effective

Electrification of residential and commercial buildings has long-term benefits. Almost all new buildings are expected to be all-electric from 2030, with no gas connection.

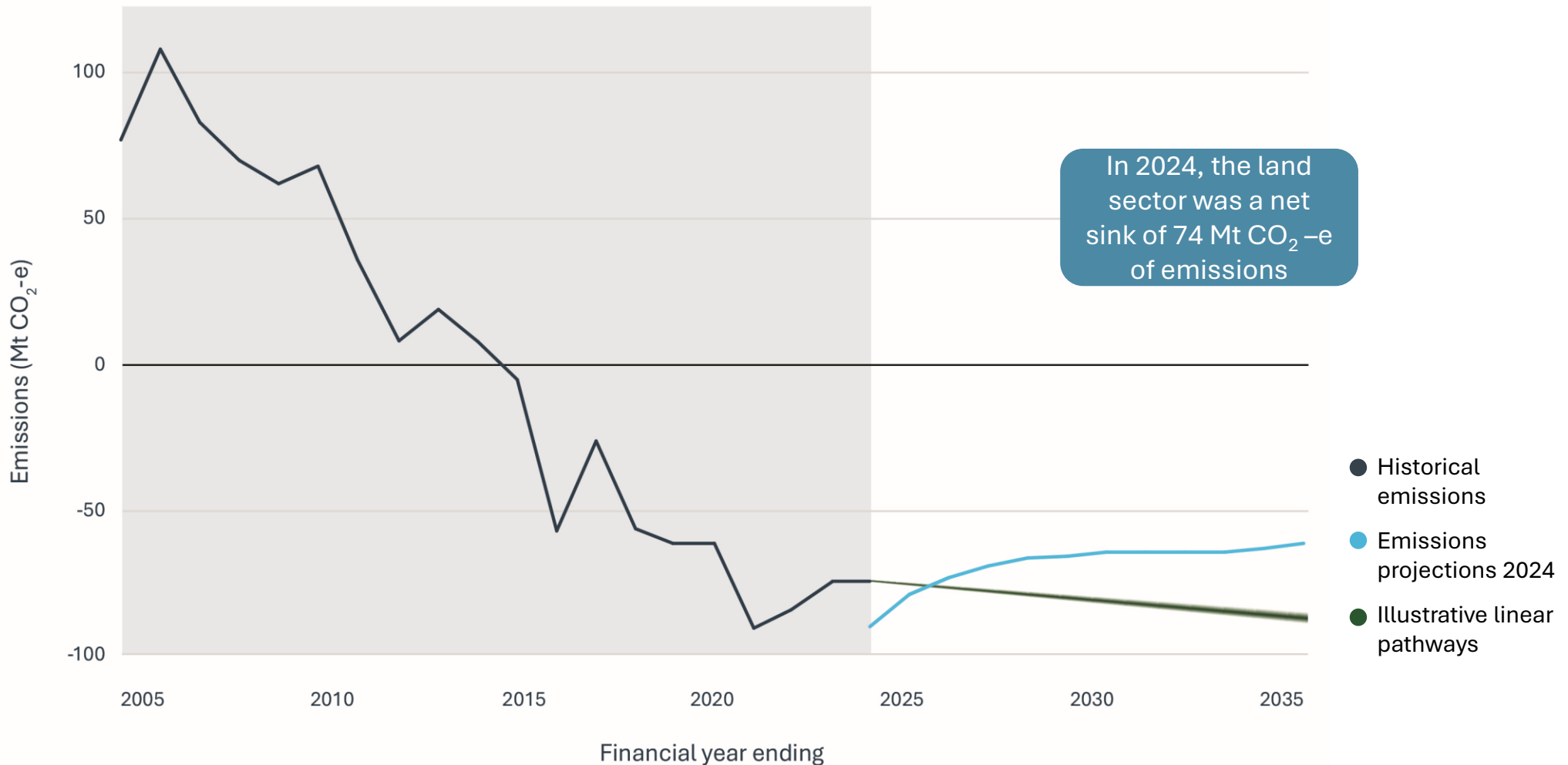
Built environment emissions 2005-2035



Land

The land can be a sink for carbon if we increase environmental planting, protect and manage native forests and reduce deforestation

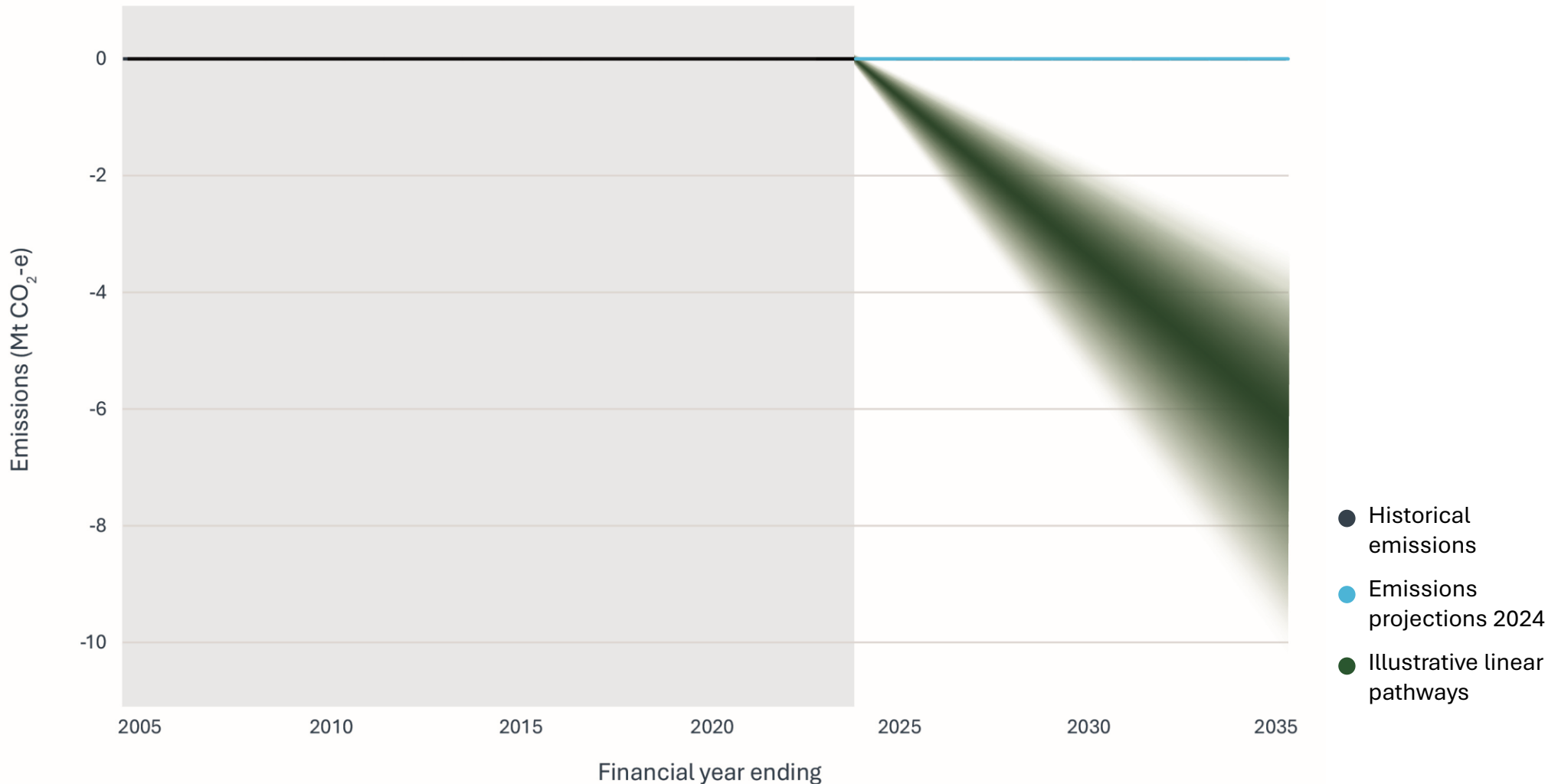
Land emissions 2005-2035



Engineered removals

A modest contribution to Australia's emissions reduction efforts in the decades to come

Engineered removals emissions 2005-2035



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