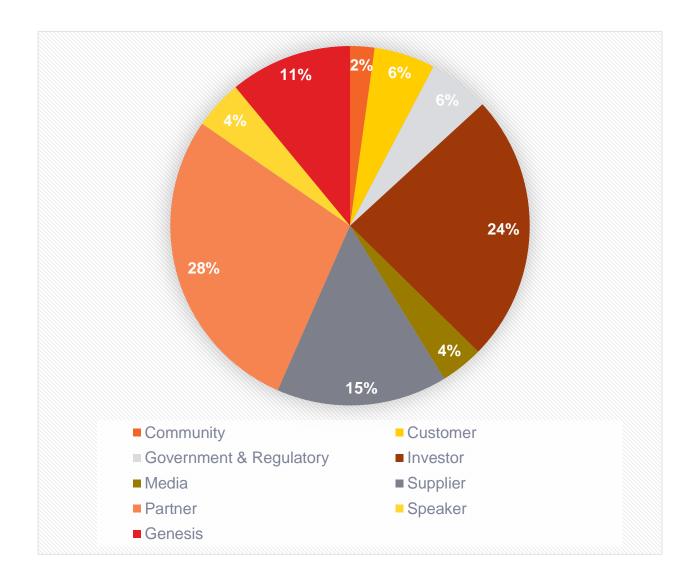
Genesis Stakeholder Day Future thinking discussion

Empowering New Zealand's sustainable future

Haere mai



Who we have in the room today



182 RSVPs received for the morning

- 139 attending in person
 - 91 guests
 - 8 speakers
 - 20 Genesis
 - 7 Media
- 39 attending online
- 109 organisations represented

47 RSVPs received for the afternoon

• 39 in person, 8 online

Genesis Energy Board of Directors and Executive Team



CHAIRMAN

Barbara Chapman

CNZM, BCom, CMInstD



Catherine Drayton BCom, LLB, FCA



Doug McKay
ONZM, BA, AMP (Harvard)



Tim Miles BA



James Moulder BA, BCA



Maury Leyland Penno BE (Hons), FEng, CMInstD



Paul Zealand
MBA, BSc Mech. Eng (Hons)



CHIEF EXECUTIVE
Marc England
MBA, MEng



Chris Jewell
Chief Financial Officer
BE (Hons), MEM, CIMA



James Magill
Chief Digital Officer
BSc (Hons),
Dip Corp Finance,
MBA (Melbourne/Madrid)



Matthew Osborne
Chief Corporate
Affairs Officer
BCom, LLB



Nicola Richardson Chief People Officer BA (Hons)



Nigel Clark
Chief Operations Officer
BBus (Acc),
Dip Treasury Mgmt.,
FCPA, FAICD, CFTP (Snr)



Shaun Goldsbury
Chief Trading Officer
BSc



Tracey Hickman
Chief Customer Officer
MA (Hons)



Genesis team here today



Andre Gaylard
General Manager
Future Generation



Angus Judge General Manager Operational Excellence



Cameron Jardine
General Manager LPG



Courtney Simpson
Group Manager
Sustainability



Christopher Mirams
Group Manager
Communications
and Media



David Gutteridge General Manager Residential Join



Emma-Kate Greer Group Manager Employee Experience and Strategy



Fiona Turvey Marketing Manager



Jackie Shen
Executive Team Manager



James Ryan Group Manager Strategy and Risk



Kiely Evans
Communications and
Engagement Manager



Michaela Latimer
Community Liaison
Manager



Peter Kennedy
General Manager,
Growth and Innovation



Tara Parata
Head of Customer Care



Tim McSweeney
Manager - Investor
Relations



Tim Rowe Strategy Partner

An interactive discussion



Dr Rod Carr Chair of the Climate Change Commission



Rod Oram
Business journalist
and columnist



Mike Burrell

Executive Director of the Sustainable Business Council



Kirsten Corson
Co-founder and Executive Director
of Zilch



Graeme Milne Chairman of Synlait Milk Ltd



Arizona Leger Youth climate leader



Nicole (Niki) Harré
Professor at
The University of Auckland



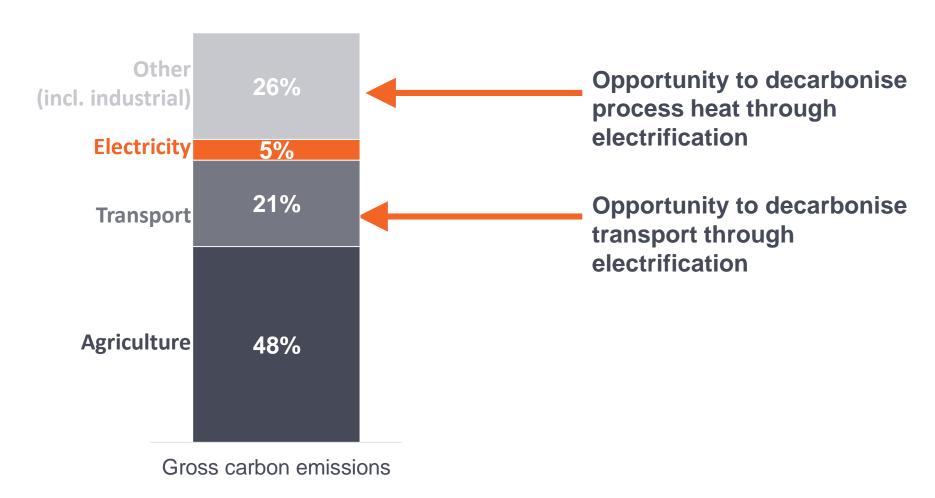
Shamubeel Eaqub
Economist, financial analyst
and author

Empowering New Zealand's sustainable future

Manaaki whenua, manaaki tangata, haere whakamua



Electricity contributes a small portion of New Zealand's emissions but is vital to the transition





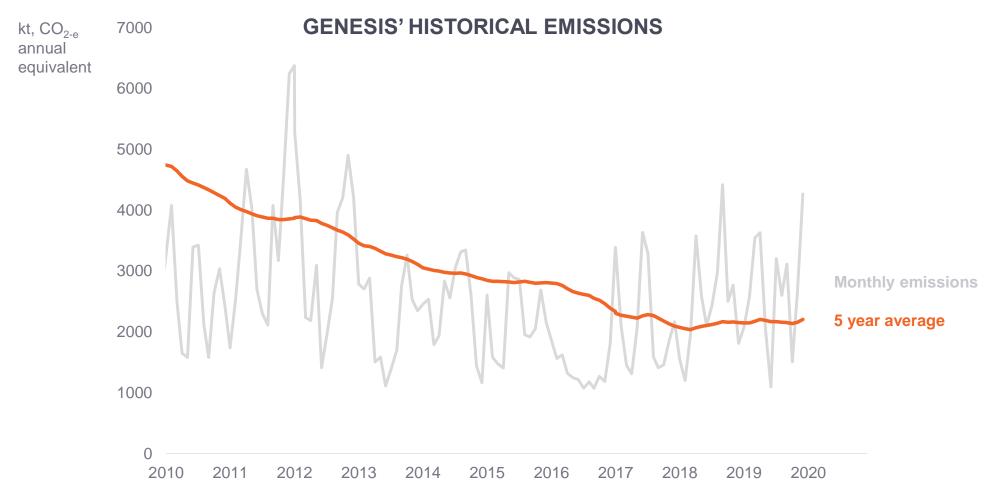


We're reducing our emissions

while advocating for a reliable and affordable, highly renewable electricity system



Genesis has a track record of reducing emissions despite a volatile output



We're continuing emissions reductions by setting Science Based Targets consistent with limiting warming to 1.5°C

Target Year 1: 2025

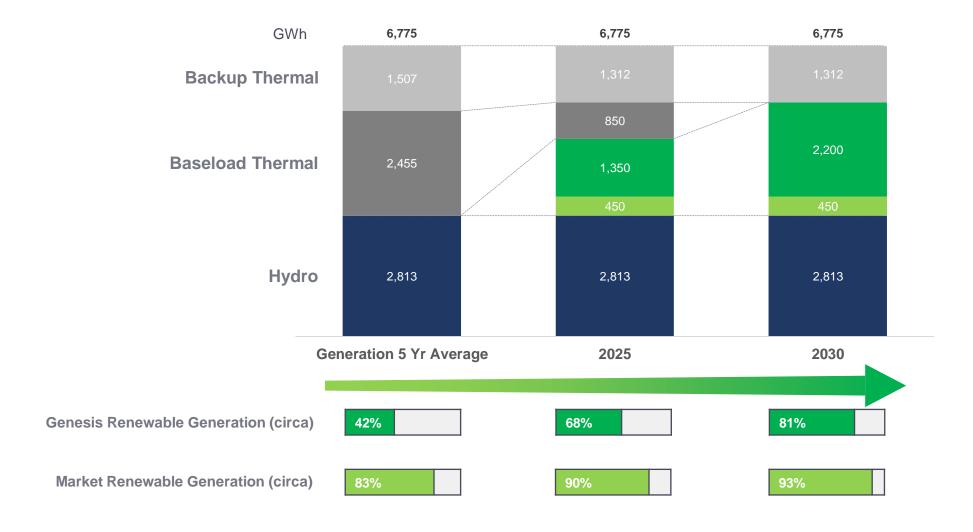
Reduce emissions² by at least 1.2 million tonnes



^{2.} Combined scope 1, 2 & 3



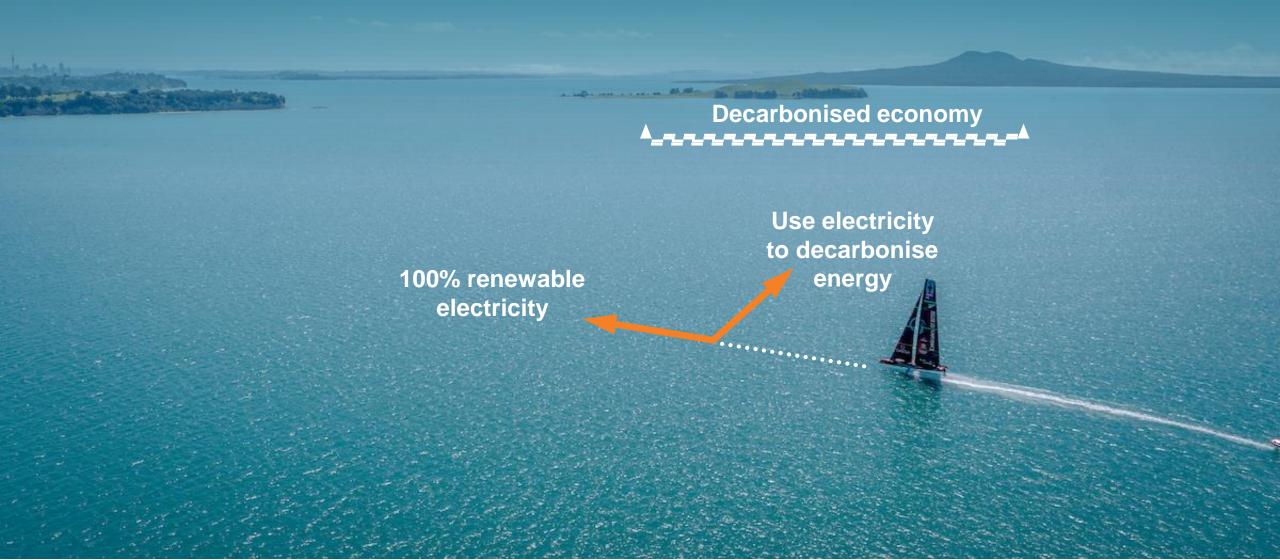
Cheaper renewable electricity will actively displace baseload thermal



Empowering a sustainable future will require strategic partnerships, alliances and collaboration through our supply chains

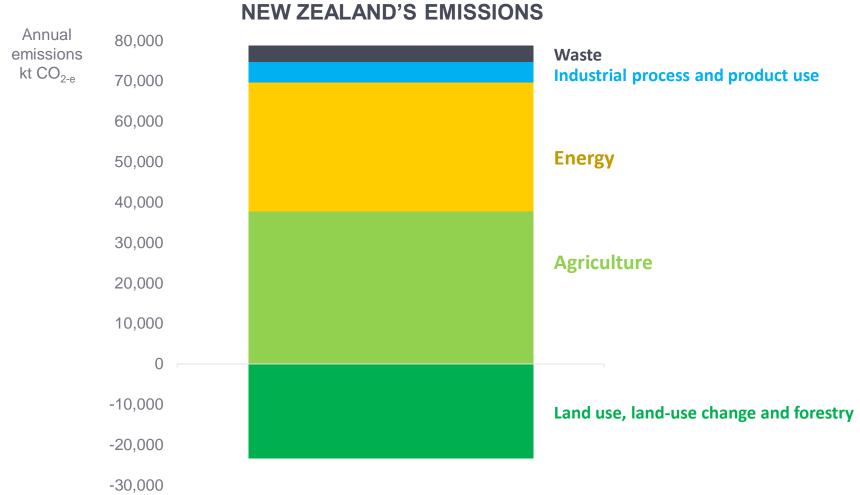


We need more systems thinking and an energy strategy to ensure we navigate the fastest route to decarbonise

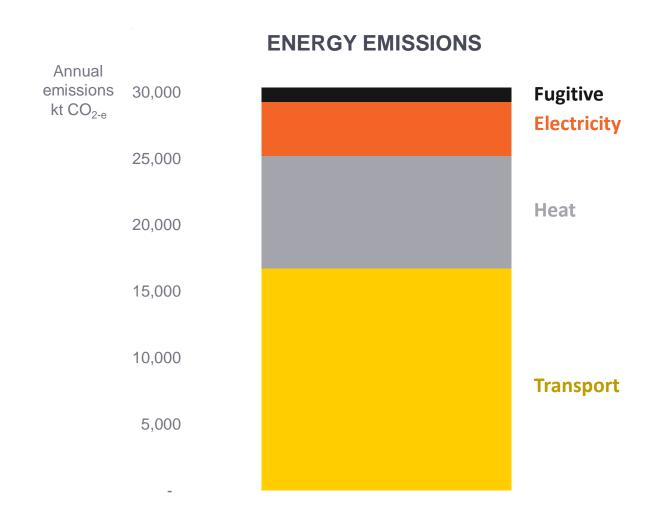


Understanding the decarbonisation landscape

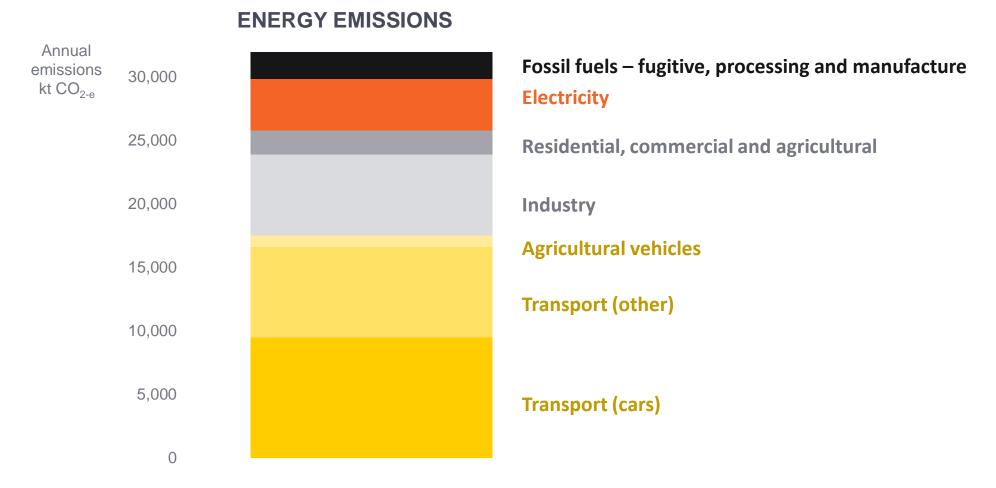
Energy is one of the two major contributors to New Zealand's emissions



Almost all energy use is either electricity, heat or transport

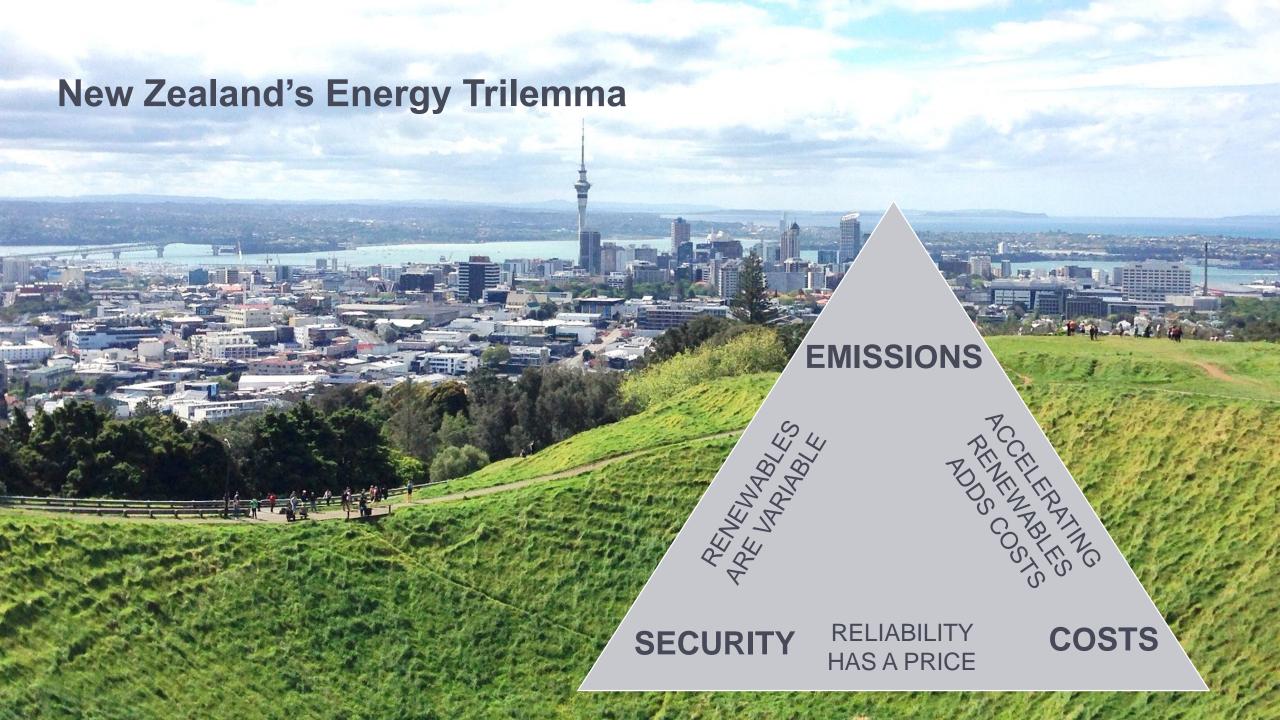


Energy emissions come from a range of activities, with solutions only available for some in the 2020-2030 decade

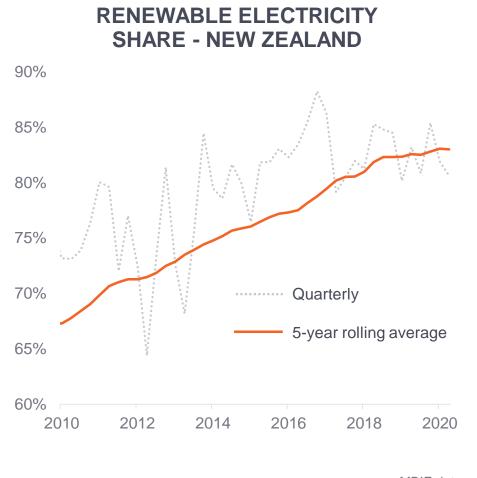


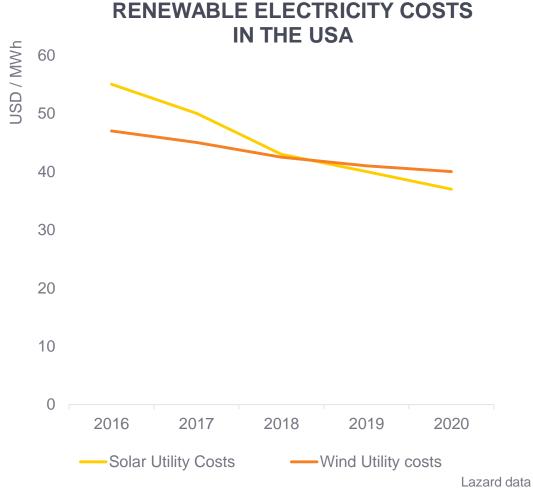
Electricity



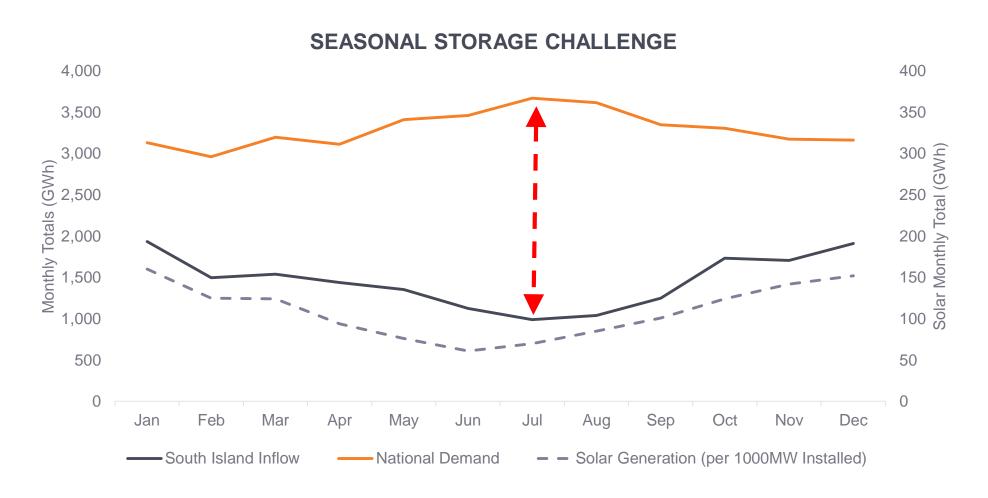


Electricity is decarbonising with falling wind and solar costs providing tail winds for further progress

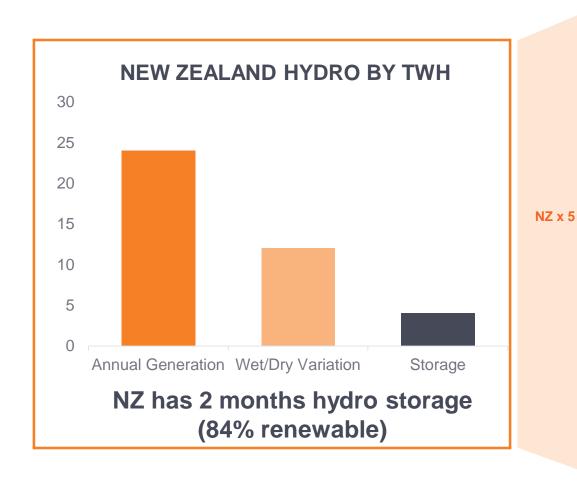


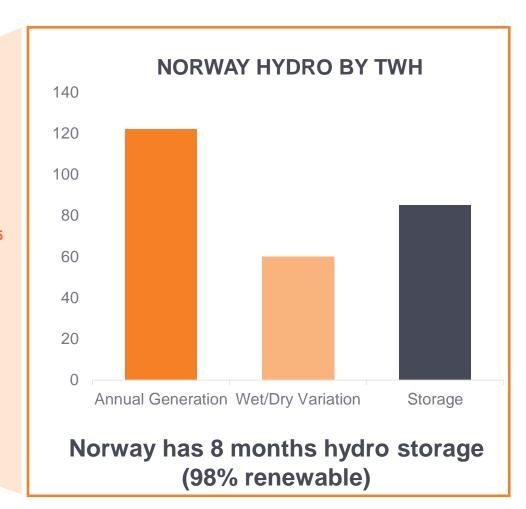


Seasonal demand is a challenge for our electricity system, demand is highest in winter when southern inflows are the lowest



Our hydro storage is too small to manage droughts and seasonality Even with 4x the relative storage, Norway still only 98% renewable

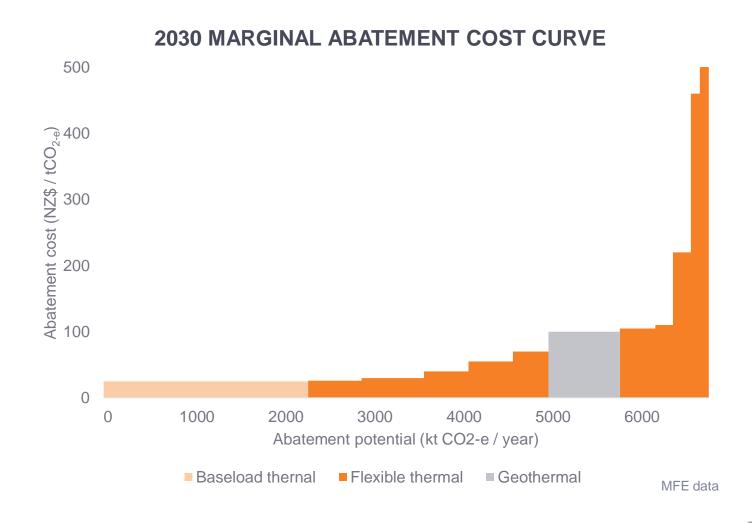




Deep energy storage is a big challenge, there are limited options available to store 3,000 GWh of energy



Electricity is decarbonising, but the last few percent will be challenging

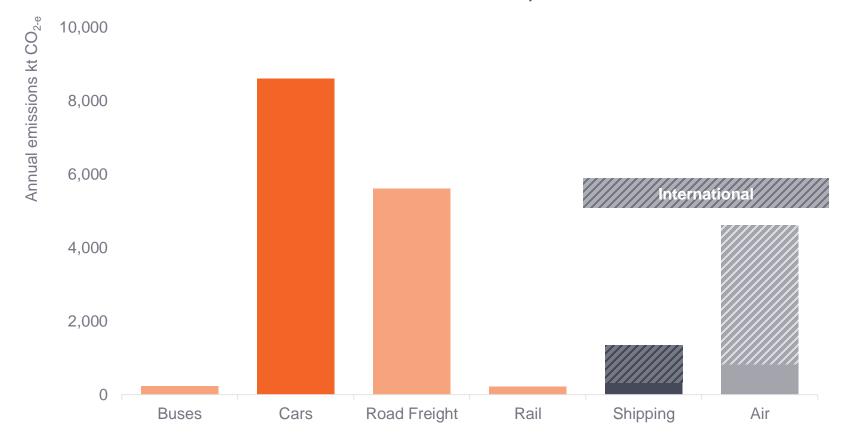


Transport



Cars are the largest decarbonisation opportunity from the transport sector

TRANSPORT EMISSIONS, NZ 2019

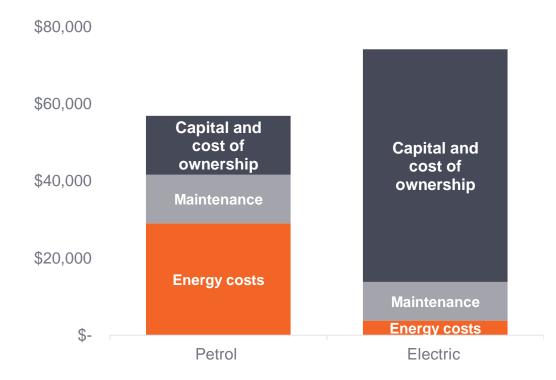


Low energy costs help, but high upfront costs are a barrier for electric vehicle adoption

Average weekly electricity for an EV costs about the same as 2 coffees



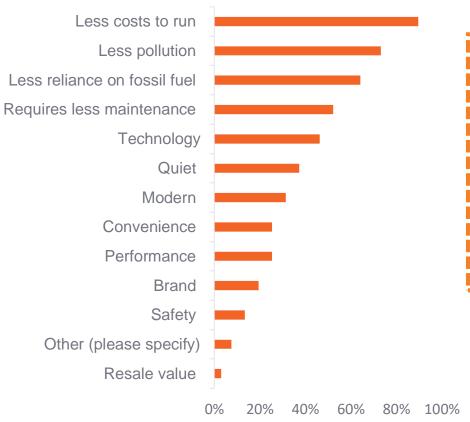
10 YEAR TOTAL COST OF OWNERSHIP*



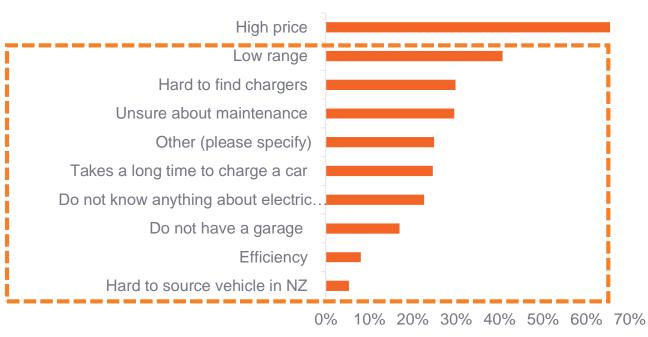
^{*}Hyundai Kona, ~21,000 km/year over 10 year terms, as at 2020 https://www.eecabusiness.govt.nz/tools/vehicle-total-cost-of-ownership-tool/

Currently, price is not the only barrier to adoption

REASONS FOR PURCHASE OF EV



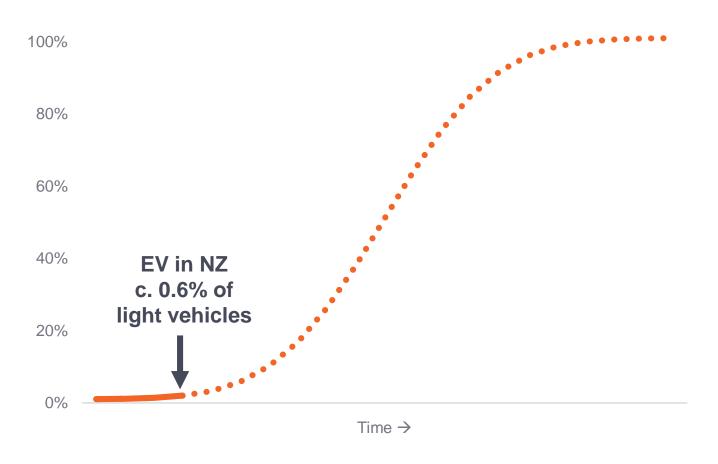
BARRIERS FOR PURCHASE OF EV



Some of the barriers to adoption could fall away as consumers learn more about Electric vehicles and how to use them

Electric vehicle adoption is growing but still has a long way to go

INDICATIVE ADOPTION CURVE



Innovation is still needed for other transport sectors – is this an opportunity for New Zealand to help find solutions?

ROAD FREIGHT



A number of truck electrification projects undertaken with funding from the Low Emissions Vehicle Contestable Fund

SHIPPING



Electric tug boat developed for Ports of Auckland and electric ferries being explored for Auckland and Wellington

AIRCRAFT

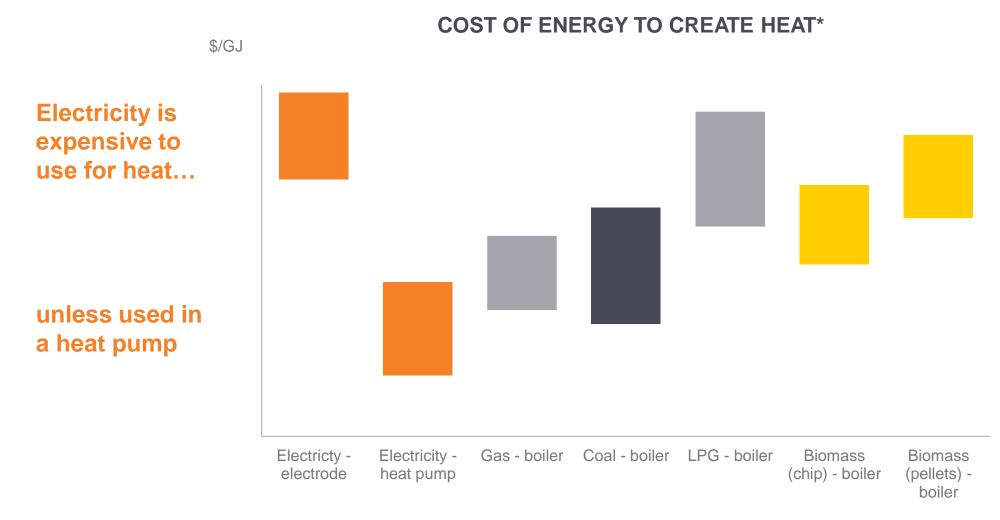


Cora electric air taxi tested in Canterbury and Sounds Air has intent to buy electric plane for commercial flights

Heat

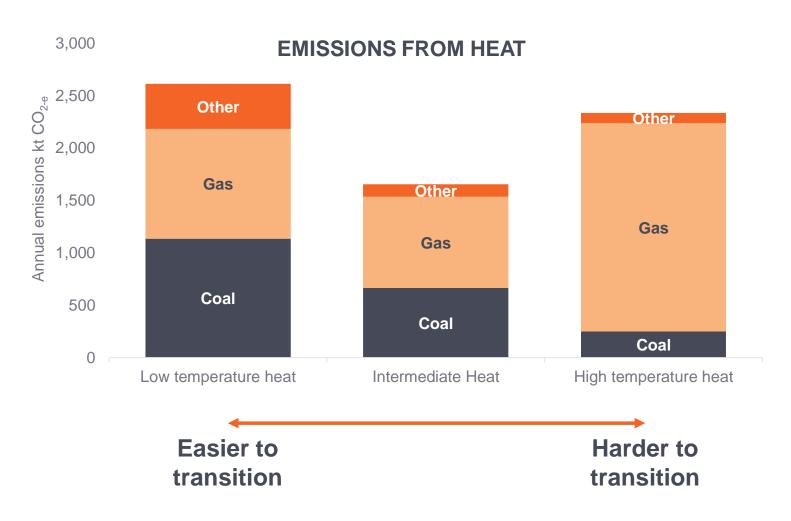


The cost of energy is critical for transitioning heat

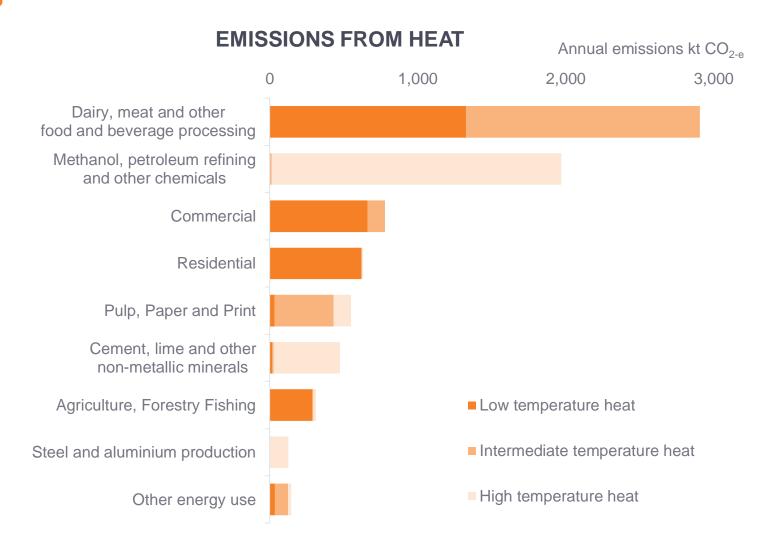


*Energy costs including fuel, delivery, carbon cost at \$50/tonne, and typical boiler efficiency

Higher temperatures are harder to transition than lower temperatures



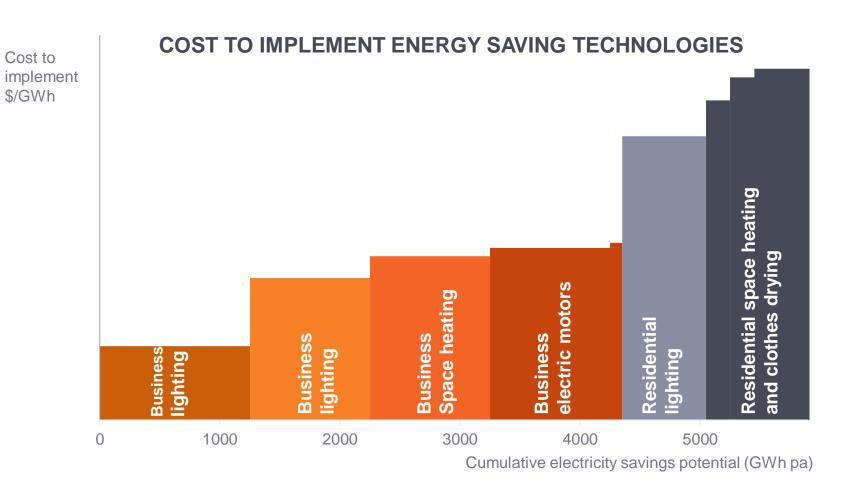
Significant heat emissions are from a small number of sectors and sites



Efficiency



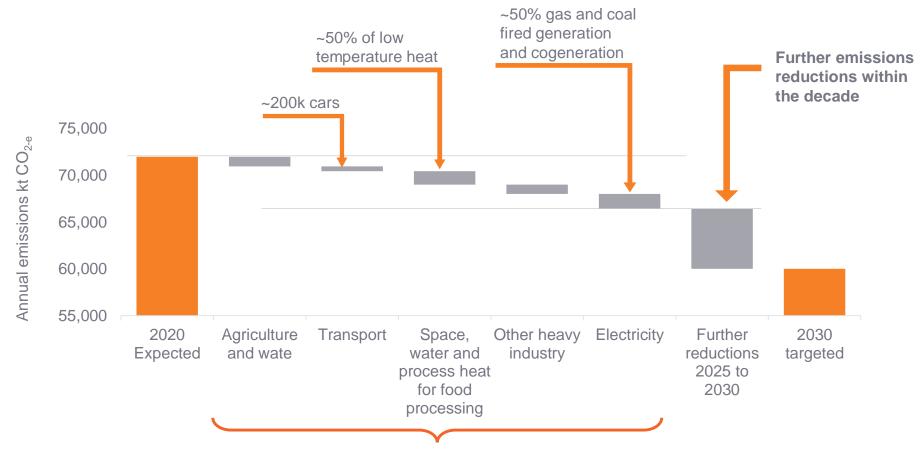
Significant opportunities for efficiency exist in homes and businesses



Decarbonisation pathway



Is New Zealand going to reduce emissions fast enough?



MFE identified reductions to meet provisional emissions budget 2021 to 2025

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