



# Low Carbon Aotearoa

An Energy Roadmap to 2030  
Summary Slide



**The  
Aotearoa  
Circle**

Mā te Kaitiakitanga  
ko te Tōnūtanga  
Prosperity Through  
Guardianship



The low carbon opportunity is real...



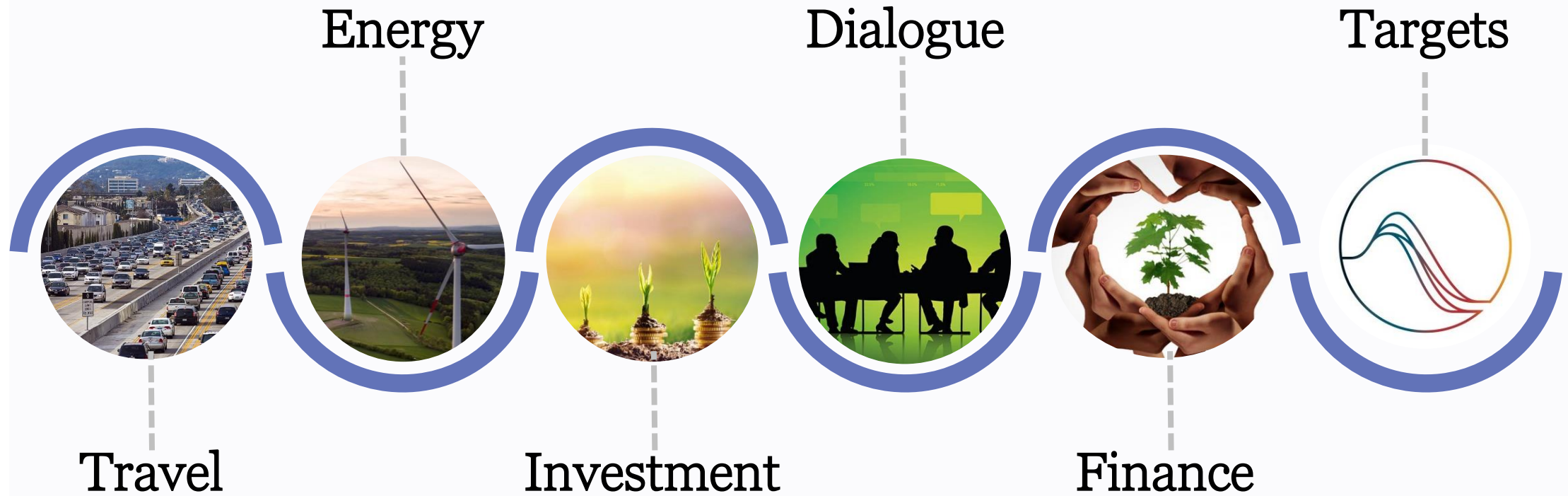
...and the challenge is urgent.

# Our Energy System Objectives and Scorecard



Vision	Our energy system accelerates the transition to a net-zero future that supports the wellbeing of current and future generations and enables Aotearoa to thrive.							
Objectives	<b>1</b> Our Whānau, businesses and communities have equitable access to affordable, low-emissions energy that enables them to thrive		<b>2</b> Our energy system transitions at the scale and pace required to help Aotearoa meet its 2050 net-zero emissions target and contribute to global efforts to limit warming to 1.5°C		<b>3</b> Our energy sector takes responsibility for its environmental impacts and supports a regenerative Aotearoa		<b>4</b> Our energy system is resilient, reliable, and secure	
Scores	Energy Affordability for Households & Communities	2	Transition to Renewables	2	Whenua (Land and Soil)	Not available	Resilience	4
	Energy Affordability for Businesses	3	Building Emissions	1	Koiora (Biodiversity)	Not available	Reliability	3
	Energy Access	5	Transport Emissions	1	Wai (Water)	Not available	Security	2
			Industry Emissions	2	Air Quality	3		

# Business has a key role to play



# Government must act in support



## Carbon Neutral Government Programme



# Our Recommendations

## 4 sector themes



**1. Keeping whānau warm, dry, and healthy**



**2. Redesigning how people move around**



**3. Rethinking freight and aviation**



**4. Setting the low carbon trajectory for business and industry**

## 4 system themes



**5. Ensuring a coordinated transition**



**6. Enabling the new energy infrastructure we need**



**7. Achieving a diversified and reliable electricity system**



**8. Moving towards a regenerative energy system**

**Te Tiriti o Waitangi and He Ara Waiora underpins the transition and our future energy system**

# Opportunities for partnering with Māori



We have developed some early proposals to incorporate Māori knowledge and worldviews into the energy system, that will need to be further developed with Māori as this conversation progresses.



Te Tiriti o  
Waitangi as  
the foundation

Reflecting the spirit and intent of Te Tiriti to enable genuine partnership between the Crown and Māori.



Mātauranga as  
the innovator

Enabling Māori knowledge to inform decision-making, to monitor progress, and to guide innovation.



Whānau and  
hāpori as the  
drivers

Ensuring better outcomes for communities through prioritising local partnerships and iwi investment.



# Acknowledgements



The roadmap development benefited from the expertise and voluntary efforts of a large and diverse group of stakeholders from across New Zealand's energy system. The Leadership Group provided oversight and governance, and the Technical Advisory Group provided key skills and expertise to deep dive into energy system issues, barriers, and opportunities. External reviews and specialist input were provided by further contributors. Secretariat services were provided by EY.

## Co-Chairs

- Bella Takiari-Brame – ACC, The Lines Company, Maniapoto Māori Trust Board
- Chris Jewell – Genesis Energy, Lodestone Energy

## Leadership Group

- Alison Andrew – Transpower
- Andy Knight – Gas Industry Company
- Cristiano Marantes – Ara Ake
- Izzy Fenwick – The Aotearoa Circle, DNA
- Jane Taylor – The Aotearoa Circle, Silver Fern Farms, XRB, Orion
- Jason McDonald – Orion, Top Energy, Connetics, Mevo, Helios Energy
- Linda Mulvihill – Fonterra
- Shane Gowan – Beca
- Susan Paterson – Lodestone Energy, Reserve Bank of New Zealand, Arvida Group Ltd., Steel & Tube Holdings Ltd., ERoad, Theta Systems Ltd.
- Dr. Will Edwards – Tui Ora, Ageing Well NSC, Parininihi ki Waitotara
- MBIE (represented by Chris Bunny, Andrew Hume, Justine Cannon and Sharon Corbett)
- MfE (represented by Belinda Eyndhoven)
- MoT (represented by Ewan Delaney and Mieke Welvaert)

## Advice and guidance also provided by

- Bioenergy Association
- Building Research Association of New Zealand (BRANZ)
- Community Energy Network
- Electricity Authority
- Electricity Networks Association
- Generation Zero
- National Energy Research Institute
- NZ Green Building Council
- NZ Hydrogen Council
- NZ Wind Energy Association
- Sir Jonathon Porritt
- Te Tai Ōhanga – The Treasury
- Vehicle Importers Association

## Technical Advisory Group

- Andrew Clennett – Hiringa Energy
- Anne Probert – Venture Taranaki
- Cameron Burrows – Electricity Retailers Association (ERANZ)
- Cameron Jardine – Genesis Energy
- Catherine Soper – Genesis Energy
- Darren Gilchrist – Oji Fibre
- David Buckrell – Contact Energy
- Ezra Hirawini – Nau Mai Rā
- Jenny Sullivan – Air New Zealand
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- Mana Newton – Tauhara North No.2 Trust
- Mark Toner – Vector
- Nicholas Vessiot – Transpower
- Ray Hall – Ngā Tāngata Tiaki
- Richard Hobbs – Transpower
- Robyn Holdaway – Vector
- Rowan Hooper – Todd Corporation
- Sheena Thomas – Z Energy
- Simon Millar – Pure Advantage
- Stuart Dickson – PowerCo
- Steve Murray – Tuaropaki Trust
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- MfE (represented by Belinda van Eyndhoven)
- MoT (represented by Mieke Welvaert)
- EECA (represented by Marcos Pelenur and Murray Bell)

## Secretariat

