



# *TE RŪNANGA O NGĀI TAHU GROUP*

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CLIMATE IMPLEMENTATION PLAN

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# EXECUTIVE SUMMARY

- **REDUCE** | Methane 17% by 2035
- **HELP** | Solarise whānau homes and Marae
- **REMOVE** | Nitrogen Fertiliser by 2035
- **DEVELOP** | Marae as strong safe climate hubs
- **FIND** | Clean alternatives to diesel
- **INVESTIGATE** | Marine biodiversity initiatives
- **REINSTATE** | Climate focused Mahinga Kai programme
- **EXPLORE** | Native Tree planting
- **INCENTIVISE** | EV's, biking and public transport
- **RESTORE** | Ecosystems
- **INNOVATE** | By electrifying jetboats
- **FUTURE PROOF** | With renewable power projects







# Climate Change Overview



# Overview

- **2016:** NZ signs Paris Agreement to keep global warming **below 2 degrees Celsius**, as close to 1.5 degrees as possible
- **2018:** He Rautaki mō te Huringa o te Āhuarangi
- **2018:** NTHC joins NZ Climate Leaders Coalition committing business to Paris Agreement targets
- **2019:** First Ngāi Tahu **Climate Change Symposium**
- **2019:** Zero Carbon Bill sets NZ target of **net zero carbon** emissions and **24-47% methane** reduction by **2050**
- **2020:** NZ Parliament declares a **Climate Emergency**
- **2021:** **Climate Change Commission** delivers final report to NZ Government.

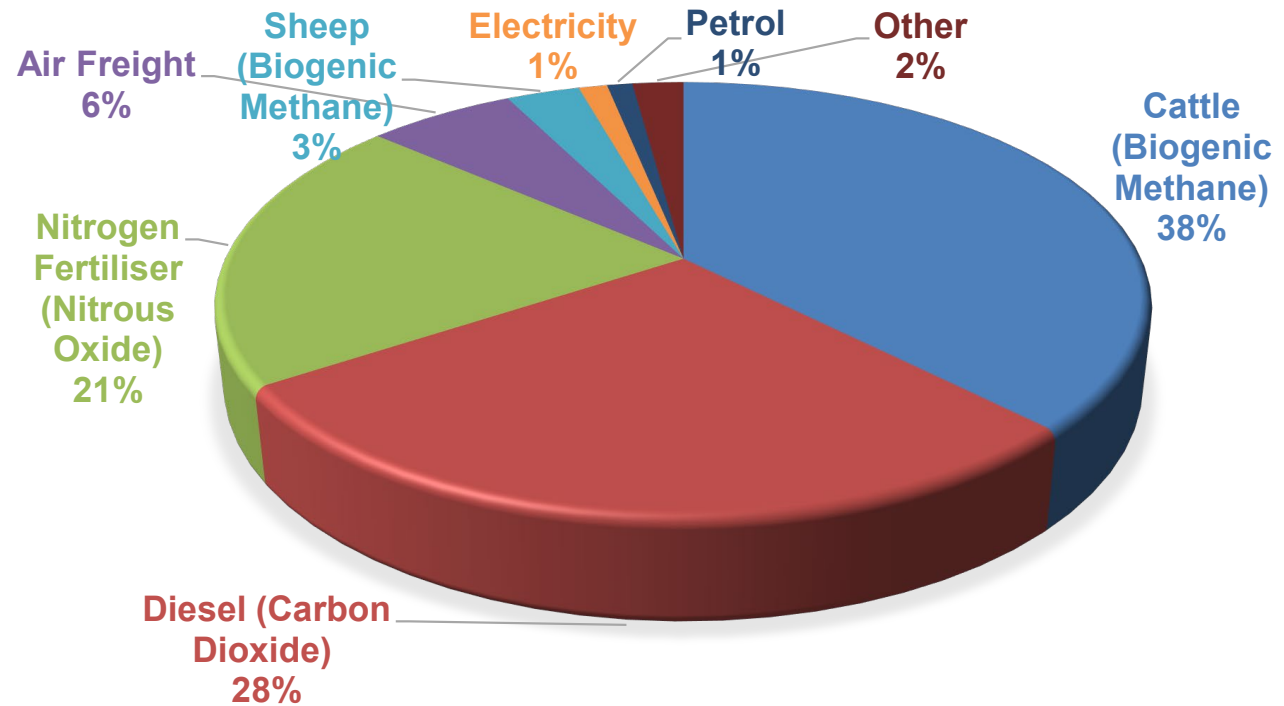




A photograph of a rural landscape. In the foreground, a dark, textured dirt road stretches from the bottom center towards the middle ground. To the left of the road is a green field enclosed by a wire fence with wooden posts. In the middle ground, there is a farm complex including a large white barn and several tall, silver metal silos. Some dark-colored cows are visible near the barn. In the background, a range of rolling mountains is visible under a clear, light blue sky. The right side of the image is partially covered by a dark grey curved shape containing the title text.

# NGĀI TAHU EMISSIONS PROFILE

# NGĀI TAHU EMISSIONS 2020



**Cattle (Biogenic Methane) 38%**

**Diesel emissions (Carbon Dioxide) 28%**

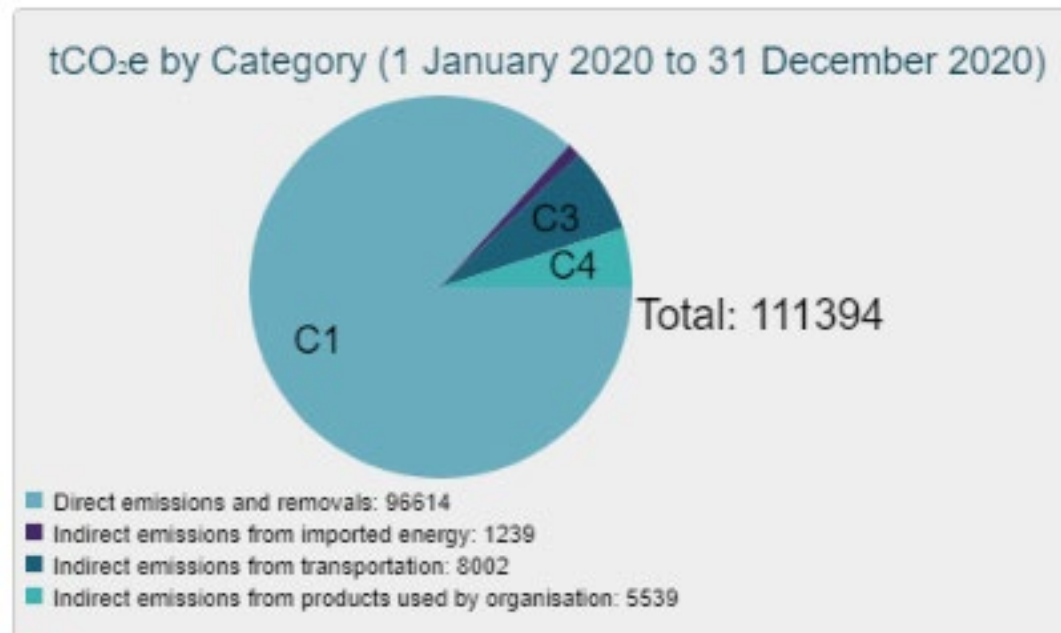
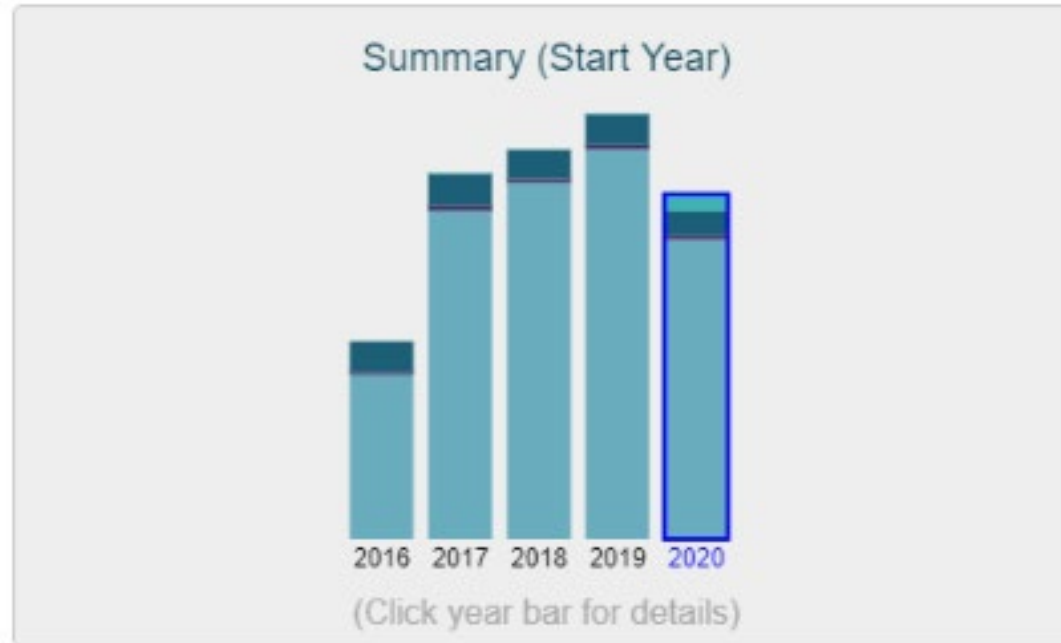
**Synthetic Fertiliser (Nitrous Oxide) 21%**

Source: Toitu emissions audit



Te Rūnanga o NGĀI TAHU

# NGĀI TAHU EMISSIONS PROFILE







# IMPLEMENTATION PLAN 2021

# EIGHT KAUPAPA

- Tahi | Greenhouse Gas Emissions
- Rua | Marae and Whānau Resilience
- Toru | Water
- Whā | Operational Emissions
- Rima | Ecosystems
- Ono | Waste
- Whitu | Renewable Energy
- Waru | Education





# 1 | GREENHOUSE GAS EMISSIONS





# AIM TO EMIT NET ZERO EMISSIONS

- Baseline assessments of emissions
- NT Farming cutting **methane** 8% by 2025  
13% by 2030 17% by 2035
- NT looking hard at **diesel alternatives** such as biofuel and green hydrogen
- Reducing **car use** by staff
- Passenger fleet 50% EV by 2025, **100 per cent EV by 2030**
- Investigating **EV procurement** options for whānau and staff.
- **Rental cars and taxis** will be expected to be all EV in 4 years
- Half of Tourism's **jet boat fleet will be electric** by 2030 and fully electrified 5 years later.



## 2 | RESILIENCE

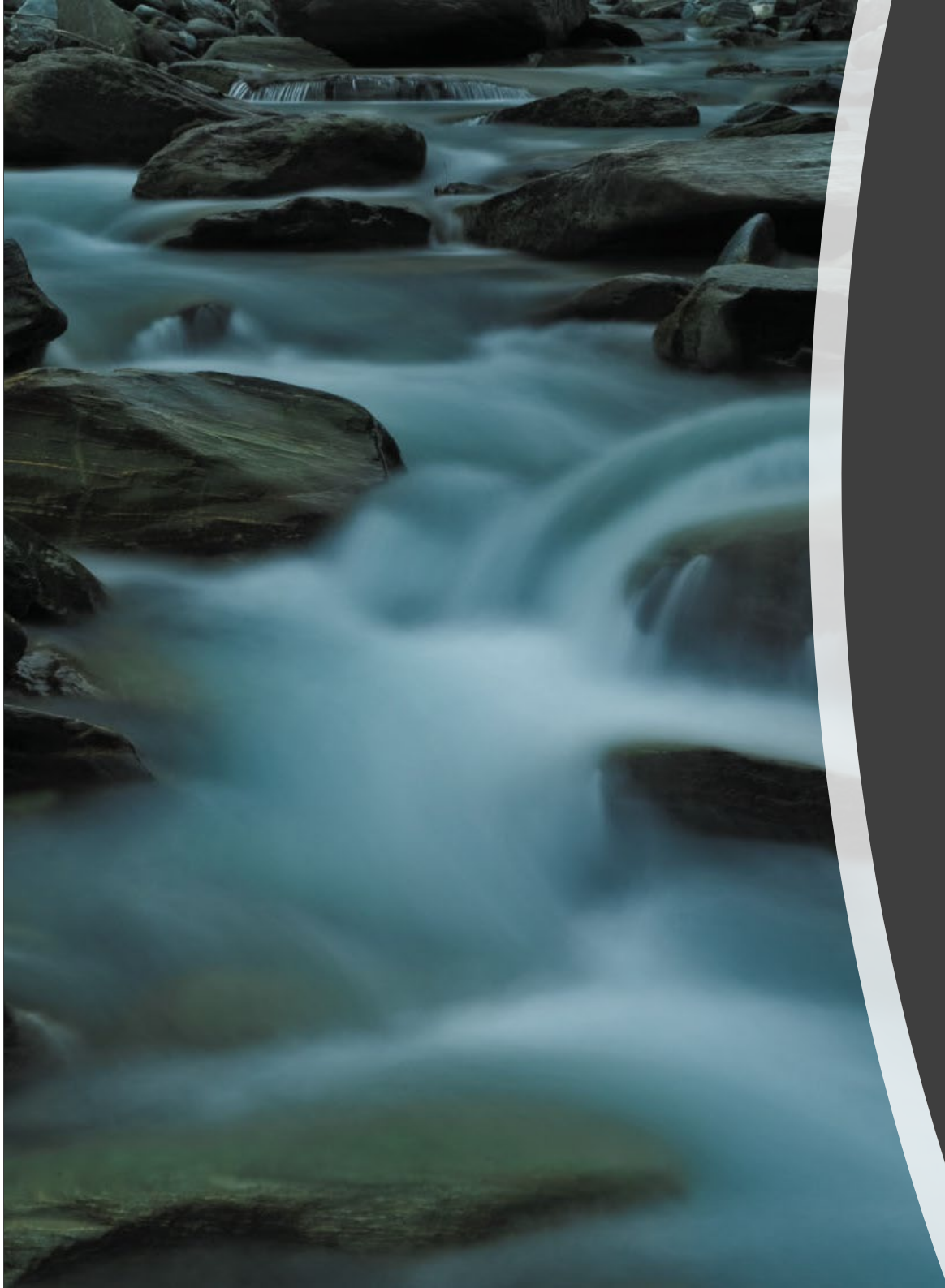


# AIM TO MAKE MARAE HUBS OF SAFETY

- **Marae resilience** embedded in the Climate Strategy
- Critical area from first tribal Climate symposium in 2019.
- In times of climate emergency Marae can serve as **safe and strong** community hubs.
- We will assist Papatipu Rūnanga to establish **climate response plans**, working alongside Government.
- Identify **green-tech solutions** for Marae.
- Continue encouraging self-sufficiency in **energy, water and waste**
- Going beyond defensive survival plans to ensure **thriving whānau** in a climate-changed, low-emissions world.







## 3 | WATER



# THE AIM IS THAT WATER USE IS ENVIRONMENTALLY RESPONSIBLE

- Water also identified by both the tribal symposium and future fit wānanga as **area of concern**.
- NIWA report describes **temperature increases** across the takiwā by **up to 3C** by the end of the century.
- Some areas will experience **drought** while others extreme rainfall and **flooding**, affecting freshwater availability.
- **Water management plans** developed across the group.
- NT farming will introduce **variable rate irrigation** and real time water monitoring
- **Surveys of critical waterways** within commercial operations will be carried out to monitor aquatic life.







## 4 | OPERATIONAL EMISSIONS





# THE AIM IS TO TOTALLY ELIMINATE ANY HARMFUL GAS, SOLIDS OR LIQUID POLLUTION.

- NT will implement **soil reports**, construction guidelines, looking for **non-hazardous alternatives** for chemicals that are presently being used.
- This includes **farm fertiliser** which can have a polluting effect on freshwater.
- Huge plus here for **Greenhouse Gas reduction**.
- NT's profile shows 21% of our emissions are Nitrous Oxide from fertiliser.
- Cutting Synthetic Nitrogen fertiliser use by **10% year on year** will allow us to remove one fifth of our total emissions by 2035.





## 5 | ECOSYSTEMS





# THE AIM IS TO ENSURE THAT NONE OF OUR OPERATIONS ENCROACH ON ECOSYSTEMS

- Climate change will have a profound effect on the **ecosystems** especially the ocean - a big carbon sink
- Flow on effects for key **kaimoana species**.
- We will be identifying **biodiversity initiatives** in the marine environment.
- **Wetlands and Native Forests** too are crucial long-term absorbers of carbon
- Large scale **planting native trees** on marginal land being investigated
- Other initiatives ecological monitoring, working with mana whenua on ecosystem rejuvenation initiatives and reinstate the **Mahinga Kai fund** with a climate lens.





## 6 | WASTE



# THE AIM IS TO ELIMINATE ALL AVOIDABLE WASTE GENERATION

- **Reuse, recycle, or otherwise repurpose** any remaining waste.
- **Organic waste** at landfill a substantial producer of biogenic methane 9% of Aotearoa's emissions.
- Carry out a **baseline assessment** of waste outputs, including end of life disposal requirements in all purchasing.
- By 2025 **60 per cent of all operations and partners will have waste reduction targets** and monitoring and we are aiming for a paperless office by 2030 with digital publications only.





## 7 | RENEWABLE ENERGY





# AIM TO BE NET CONTRIBUTORS TO THE ELECTRICITY GRID

- Government aim is to build a 100% renewable electricity grid in **partnership with iwi/Māori**.
- **Solar power schemes** now cheapest source of power in history.
- Plan includes initiatives to produce our own **green energy**.
- Developing a sizeable source of renewable energy within the takiwā such as a **solar or wind farm**.
- Investigating funding options for **solarising** group buildings and whānau homes.
- With closure of Tiwai Point Smelter possibility of **Green Hydrogen production** - export earner as well as diesel alternative for freight trucks.



Te Rūnanga o NGĀI TAHU



## 8 | EDUCATION





# AIM TO ENSURE ALL STAKEHOLDERS ARE ON BOARD WITH NT'S CLIMATE DIRECTION

- An effective, targeted **Communications and Engagement Plan** is key to the internal and external success
- Educational and digital media to facilitate **two-way exchange** with whānau and Papatipu Rūnanga
- Socialise NT's response to the climate emergency to **stakeholders and the wider community**
- A bi-annual **Tribal Climate Change symposium** so office and holdings remain in touch with grass roots – next 2022
- Make sure implementation plan is regularly **revisited and reinvigorated**
- **Refresh the 2018 Strategy** to reflect the Tribe's evolved thinking, embodied in this plan.





# WE WILL:

- **REDUCE** | Methane 17% by 2035
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# NEXT STEPS:

- **Amend Draft Implementation Plan to incorporate feedback from Te Rūnanga**
- **Engage with Papatipu leaders to gather their reflections on the draft Implementation Plan.**
- **Final Plan will be provided to Te Rūnanga for endorsement at August 2021 hui.**
- **For each of the 86 action points costing bands and emissions impact will be established.**
- **Strategy and Influence and NTHC will continue mahi already underway to update 2018 Climate Change Strategy.**





# THOUGHTS AND QUESTIONS





## **BUT WE'RE SO SMALL**

Power of setting a good example to other organisations, companies and countries

## **WHY SHOULD NZ FALL IN LINE?**

Export markets might penalise us if we fail to take action

## **IT'S HAPPENING SO SLOWLY**

Yes, it's incremental – but your mokapuna will still ask what did you do to stop it

## **THIS WILL COST US**

Dragging our heels will cost more in the long run.