

PALMY[®]
2021-31



TE MAHERE MŌ TE
ĀHUARANGI HURIHURI

CLIMATE
CHANGE PLAN

Ahunga rautaki



Strategic direction



Te āhuarangi hurihuri: Te ahunga rautaki a te Kaunihera

Climate change and Council's strategic goals

The Palmerston North City Council vision is He iti rā, he iti pounamu Small city benefits, big city ambition. The Climate change plan primarily contributes to the Palmerston North City Council's goal of becoming an Eco city. The plan describes Council's activities for the first three years of the 2021-2031 10-Year Plan.

Ngā tino Priorities

The priorities of Goal 4: An eco city are:

1. He kauanuanu, he hapahapai i te mauri o te awa o Manawatū

Respect and enhance the mauri of the Manawatū River
2. He mahitahi ki te hāpori ki te whakaiti i te tukutanga o te waro

Work with the community to reduce carbon emissions
3. He whakahaumanu i te kanorau koiroa māori

Regenerate native biodiversity
4. He whakapau pūtea ki ngā momo pūnahahanga e whakamarohitia ai, e whakapūmautia ai te taiao

Invest in infrastructure that services to protect, enhance and preserve the environment
5. He whakamahi i te mana ā-ture o te Kaunihera me ana kaupapahere kia toitū ai te whanaketanga o te tāone i te wātonu, ā, haere ake nei

Use Council's legislative powers and policies to ensure urban development is sustainable now and into the future

6. He whakaako i te hāpori, mātua rā ko ngā kaupupuri whare, ki te whaihua o te whakapau moni kia hoahoaina ai he whare toitū, whare kākāriki hoki

Educate the community, in particular, property owners, on the benefits of investing in sustainable building design and green buildings
7. He whakaatu i te hautūtanga me te mahi tika, mā te whakawhanake me te whakatinana i tētahi mahere taiao toitū mō te Kaunihera me ōna takunetanga, taiwhanga anō hoki

Demonstrate leadership and best practice by developing and implementing an environmental sustainability plan for the Council, Council-run events, and facilities

Te take o te mahere Purpose of the plan

The 10-Year Plan levels of service for this plan are:

- Foster sustainable practices and behaviours so that city residents and organisations become more sustainable
- Develop policies and plans and work with city stakeholders to achieve the target of a 30% reduction in greenhouse gas emissions by 2031 and continue to reduce greenhouse gas emissions from Council's own activities

Ngā hononga ki mahere kē Links with other plans

The actions of all other Council plans continue to the achievement of this plan. This is because all Council activities have an impact on carbon emissions. Most of Palmerston North's emissions come from transport, land-use, housing, and commercial/industrial activities. Consequently, the actions in the City growth plan, Economic development plan, Transport plan, and Environmental sustainability plan are particularly relevant.

Climate change is expected to create significant challenges for the city, particularly in the areas of water supply resilience and stormwater management. Adapting to these challenges is covered in the Waters plan.

Te mahitahi me Rangitāne o Manawatū Rangitāne o Manawatū partnership

Council will work in partnership with Rangitāne o Manawatū and:

- provide support to Rangitāne o Manawatū to achieve their own climate change aspirations
- work with Rangitāne o Manawatū to understand the impacts climate change may have on Māori

These commitments will guide the implementation of all aspects of this plan.

Ngā puka Kaunihera e whai wāhi mai ana ki tēnei mahere Council documents that contribute to this plan

The implementation of this plan is shaped by these Council-adopted documents:

- Palmerston North City Community Carbon Footprint
- Palmerston North City Council Emissions Inventory Report
- Palmerston North City Council Emissions Management and Reduction Plan (in preparation)
- Palmerston North Low Carbon Roadmap
- Stormwater Drainage Bylaw
- Waste Management and Minimisation Plan and Bylaw
- Water Supply Bylaw

Te ine i te angitutanga Measures of success

Council will monitor these measures of success and report on these through the City Dashboards:

- Decrease in Council's total organisational emissions
- Decrease in citywide emissions





Kupu whakataki Introduction

The climate is changing, bringing changes to long-term weather patterns and increasing the frequency of drought and flooding. The purpose of this plan is to understand the impacts of climate change and to reduce Council and citywide greenhouse gas emissions.

Kei hea tātou i tēnei wā? Where are we now?

- The climate is changing as a result of human greenhouse gas emissions.
- The pace of future change is uncertain, but climate change is likely to have significant impacts on the frequency and severity of droughts and flooding in our region.
- The impacts of future climate change can be mitigated by reducing greenhouse gas emissions (predominantly carbon dioxide and methane).

- New Zealand Parliament passed the Climate Change Response (Zero Carbon) Amendment Bill in late 2019, setting a national target of net zero carbon emissions by 2050.
- Palmerston North City Council has substantially reduced its annual emissions by 5,200 tonnes carbon dioxide equivalent (tCO₂e), or 20%, since it first began monitoring in 2016, with additional benefit of operational cost savings in many cases (for example, LED street lighting).
- In 2018, a citywide emission's inventory¹, found that Palmerston North emits roughly 500,000tCO₂e each year, or approximately 5.7 tonnes per person.
- Council has built upon this inventory and developed an emissions model which predicts citywide emissions out to 2050 under a wide range of scenarios.
- Following the release of the Palmy Climate Calculator to the public, Council developed a Low Carbon Roadmap, which breaks down the 2050 net zero target into a series of actions and interim targets.

¹ Palmerston North City Community Carbon Footprint 2016/17.



He aha ngā hiahia hei whakatutuki? What do we want to achieve?

- Reduce Council's organisational greenhouse gas emissions.
- Rangitāne o Manawatū achieve their own climate change aspirations.
- Work with residents and other city partners to implement the Low Carbon Roadmap and reduce citywide emissions.
- Work with Horizons Regional Council, mana whenua, and other regional partners to assess and adapt to climate change vulnerability.

He aha ngā mahi e tutuki ai ngā hiahia? What actions will we take to get there?

Ongoing actions	Start date	Involvement of partners
Monitor, and have externally audited, PNCC greenhouse gas emissions	All 2021/2022	Toitu Carbonreduce Programme
Prepare a Council Emissions Management and Reduction Plan		
Maintain citywide emissions model and monitor citywide emissions		
Estimate emissions impact of all major Council decisions		Rangitāne o Manawatū
Investigate options for further carbon reductions through the asset management process		
Implement the Palmerston North Low Carbon Roadmap		
Provide technical and other support to Rangitāne o Manawatū to achieve their own climate change aspirations		
Work with Rangitāne and the wider Māori community to understand the additional impacts climate change may have on Māori		
Provide support to schools developing their own emissions-tracking and reporting		
New and one-off actions	Completion date	Involvement of partners
Collaborate with regional partners to better understand climate change vulnerability and develop a coordinated adaptation response	2021/2022	Horizons Regional Council, and other territorial authorities within the region
Create a low carbon fund to allow Council the flexibility to respond to opportunities to reduce organisational emissions and, where possible, costs		Rangitāne o Manawatū, Massey University
Complete a feasibility study to determine process, actions and time required for PNCC to be carbon neutral	2021/2022	Toitu Carbonreduce Programme



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Our north arrow draws directly from “North” in our city’s name. An upward arrow perfectly symbolises our ambition for a city that’s smarter, continually growing and evolving, innovating, collaborating and finding enlightened ways to work with nature.