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**MARLBOROUGH
DISTRICT COUNCIL**

24 January 2024

Record No: 248430
File Ref: D050-001-C04
Ask For: Nicole Chauval

Notice of Committee Meeting – Tuesday, 30 January 2024

A meeting of the Climate Change Sub-Committee will be held in the Council Chambers, District Council Administration Building, 15 Seymour Street, Blenheim on Thursday, **30 January 2024 commencing at 1.00 pm.**

BUSINESS

As per Agenda attached.

**MARK WHEELER
CHIEF EXECUTIVE**

**Meeting of the CLIMATE CHANGE SUB-COMMITTEE
to be held in the Council Chambers, District Administration Building, Seymour Street,
on TUESDAY, 30 JANUARY 2024 commencing at 1.00 pm**

Committee Clr G A Hope (Chairperson)
Clr A R Burgess
Clr R J Innes

Staff Richard Coningham (Assets & Services Manager), Pere Hawes
(Manager Environmental Policy), Alan Johnson (Environmental
Science & Monitoring Manager), Kaye McIlveney (Solicitor),
Jamie Sigmund (Strategic Planner - Implementation and Review),
Rachel Baggs (Data Analyst), Mark Lucas (Solid Waste Manager) and
Nicole Chauval (Committee Secretary)

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1. Climate Change – Emissions Inventory Report 2022/23

(also refer to separately attached report)

(Report prepared by Richard Coningham)

C315-20-185, E320-003-001, W470-04-02

Purpose of Report

1. To receive Council's Emissions Inventory reports for the years 2022/23 for Council controlled operations.

Executive Summary

2. In March 2020, Council approved its Climate Change Action Plan. The first task in the action plan was for Council to generate an emissions inventory report on operations it has control over to set a baseline by which to measure initiatives moving forward to reduce emissions in Council operations. This paper summarises / outlines Council's emissions inventory for the year 2022/23.
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RECOMMENDATION

That the report be received.

Background/Context

3. Council's Climate Change Action Plan has a number of actions that Council staff are currently undertaking on an ongoing basis.
4. The first measurable task requiring external advice was the generation of an Emissions Inventory Report on Council's operations.
5. To ensure the reports generated are unbiased, independent third-party consultants have been contracted to produce the emissions inventory reports.
6. Reports were presented to Council for the 2018/19 and 2019/20 financial years in February 2022.
7. Delays were experienced in the production of these two reports due to the Covid lockdowns that occurred in 2020.

Staff now present the Emissions Inventory Report for the financial year 2022/23. (Refer to separately attached Appendix 1)

Assessment/Analysis

8. Table 7 from the 2022/23 emissions inventory report shows a comparison of Council's measurable emissions between 2018/19, 2019/20 and 2022/23. Refer to separately attached Appendix 1 for the full report.

Table 7 - Comparison of emissions FY19, 20, 23

Source	FY19 tCO ₂ e	FY20 tCO ₂ e	Change FY19-20	FY23 tCO ₂ e	Change FY20-23
Scope 1					
Waste - Landfill	29,329.80	34,340.80	17.1%	30,425.60	-11.4%
Wastewater Treatment	4,437.10	4,728.00	6.6%	3,997.67	-15.4%
Transport Fuels	231.9	210.1	-9.4%	296.33	41.0%
Stationary Fuels	3.17	3.58	13.1%	3.44	-3.9%
Fugitive Emissions (Refrigerants)	67.2	0		53.35	
Scope 1 Total	34,069.17	39,282.48		34,776.39	
Scope 2					
Purchased Electricity	1,326.00	1,444.90	9.0%	1,046.35	-27.6%
Scope 2 Total	1,326.00	1,444.90		1,046.35	
Scope 3					
Capital goods	3,966.30	2,962.80	-25.3%	1,965.14	-33.7%
Purchased goods and services	1,517.60	1,446.40	-4.7%	684.00	-52.7%
Fuel and energy-related activities	155	159.2	2.7%	188.18	18.2%
Business travel	135.3	97.3	-28.1%	55.19	-43.3%
Upstream Transportation & Distribution	44.2	49.1	11.1%	46.01	-6.3%
Scope 3 Total	5,818.40	4,714.80		2,938.52	
Total tCO₂e	41,213.57	45,442.18		38,761.26	

Note: Results from FY2020 and FY2019 are from the report Corporate GHG Emissions for FY2019-2020 prepared by CarbonEES, May 2021.

9. Landfill emissions make up circa 78% of total measurable emissions for Council in 2022/23.
10. The increase in landfill emissions from FY 2019 to FY 2020, is attributable not only to growth in the region but also to the rebuild of the waste sorting centre in FY 2020 meaning more greenwaste was sent to the landfill than is occurring now. Also during the covid lockdown of 2020 an increased level of waste was sent directly to the landfill without any sorting as well.
11. The report also make recommendations on where focus can be given to try to reduce Council's emissions.
12. The main area where reductions in Council emissions could be made is in relation to the landfill emissions.
13. Council announced in early 2022 that it had selected LMS Energy Pty Limited to progress investigations on increasing the efficiency of methane capture in the landfill and converting it to electricity. These investigations are still ongoing currently.
14. To provide some context on Council's emissions, an update provided by the Department of Statistics estimated New Zealand's total emissions for 2020 at 78.8 million tonnes of CO₂ equivalent.

Author	Richard Coningham, Manager Assets and Services
Authoriser	Mark Wheeler, Chief Executive

2. Climate Change Action Plan Update – January 2024

(Report prepared by Richard Coningham)

E320-003-001

Purpose of Report

1. To receive the staff progress update on Council's Climate Change Action Plan.

Executive Summary

2. In March 2020, Council approved its Climate Change Action Plan. The plan contains a number of actions which for the most part staff have been addressing over the past 2.5 years as a part of their BAU workloads. This report provides an update on what has occurred against each item listed in the Climate Change Action Plan.

RECOMMENDATION

That the report be received.

Background/Context

3. Council's Climate Change Action Plan has a number of actions that Council staff are currently undertaking on an ongoing basis.
4. The first measurable task requiring external advice was the generation of an Emissions Inventory Report on Council's operations.
5. To ensure the reports generated are unbiased, independent third-party consultants have been contracted to produce the emissions inventory reports.
6. Reports were presented to Council for the 2018/19 and 2019/20 financial years in February 2022.
7. Staff have now presented the Emissions Inventory Report for the financial year 2022/23. Refer separate agenda item to this meeting.
8. Council has also undertaken an initial sea level rise mapping exercise for Marlborough as part of the Climate Change Action Plan.
9. This report was presented to the Environment Committee on 5 October 2023 and sea level rise projection maps are available on Council's website for the public to view based on various scenarios.
10. This work is informed by national planning instruments such as:
 - a) Ministry for the Environment (MfE) sea-level rise projections which include transitional planning procedures (August 2022, updated from the 2017 advice)
 - b) The New Zealand Coastal Policy Statement (2010)
 - c) and actions for local government found within the National Adaptation Plan (August 2022).
11. Adapting to the effects of climate change will be a continuous process. Council, Iwi, and the community will need to assess climate risks, plan and implement adaptation actions, then determine actions to reduce risks. Before we can do this Council needs information to support and guide future considerations.
12. As a result of the need for further information part of the recommendations when the sea level rise assessment was presented was for Council to adopt the NIWA recommendation to undertake

hydro-dynamic modelling for the Lower Wairau Plain, to more fully inform the community of potential effects in this area from sea level rise.

Attachment

Attachment 1 – MDC Climate Change Action Plan 2020 – Update December

page [5]

Author	Richard Coningham, Manager Assets and Services
Authoriser	Mark Wheeler, Chief Executive

Climate Change Sub-Committee 2020

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
1. Council contributes to NZ's efforts to reduce greenhouse gas emissions (including net carbon emissions).	(a) Contribute to the reduction of emissions as directed by the Climate Change (Carbon Zero) Amendment Act 2019, emissions budgets and other applicable regulation.	(i) Undertake a baseline inventory of Council emissions by end of 2020; and the regular monitoring of Council's greenhouse gas emissions.	\$	Regular monitoring of emissions and review targets.	Refer Emissions Inventory Reports – 2019, 2020, 2023
		(ii) Identify and prioritise activities to reduce emissions from Council offices (e.g. refrigeration emissions from air-conditioning, reduce travel by holding virtual meetings, working from home etc), Council operations (e.g. methane from landfill) and Council vehicle fleets.	Staff time	Implement emissions reduction programme.	Refer Emissions Inventory Report 2023
		(iii) Assist the private sector to provide a higher number of strategically located electric vehicle charging stations and electric bike docks/charging stations across the district. Continue to increase the number of plug-in hybrid vehicles in Council's fleet and investigate use of electric vehicles.	Staff time \$	Investigate opportunities to transition the majority of Council's fleet away from fossil fuels (i.e. replace with plug-in hybrid and electric vehicles).	Council is currently exploring opportunities for fleet replacement with EV and Hybrid cars as leases fall due. Council currently has: 1*Plug in Hybrid vehicle

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
					4*Hybrid vehicles
		(iv) Review Council's Procurement Policy to include consideration of emissions as a factor.	Staff time	Implement reviewed Procurement Policy.	BAU work
		(v) Continue to invest in forest plantations and participate in the Emissions Trading Scheme programme. Explore opportunities to undertake carbon sequestration planting on Council land.	BAU	Continue to invest in forest plantations and participate in the ETS programme. Explore opportunities to plant carbon forests on Council land (e.g. river berm land).	Marlborough Regional Forestry continues to operate for the benefit of Marlborough. Plantings on river berm land are subject to the safe operation of the flood protection system Council has in place for Marlborough.
		(vi) Continue to work with communities to develop catchment care programmes (e.g. riparian margin restoration, habitat enhancement, land stability, planting in Council parks & reserves and within roading corridors), to sequester carbon in conjunction with the Indigenous Biodiversity National Policy Statement (once in force).	BAU	Continue to work with communities on catchment care and biodiversity programmes.	Progress has been made with several programmes under MDC 'catchment care programme' SNA Programme, essentially incentivising and enabling riparian margin protection and restoration, planting for soil stabilisation. Reference 'Environmental Committee' reports on Catchment Care, Hill Country Erosion programme, Te

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
					Hoiere Restoration Project and SNA annual report.
		(vii) Continue to support landowner applications to the government's Billion Trees fund (and other relevant funds).	BAU	Continue to support landowner applications to the government's Billion Trees fund (and other relevant funds).	The one Billion Trees Fund is now closed. Council had advocated and encouraged the community to apply for funding. The East Coast Protection Group was successful in an BBT application coordinated by Council for the planting among the coastal margin. Funding opportunities for communities and farming are advocated through our Catchment care and Biodiversity teams, along with support from Landcare Trust.
		(viii) Investigate energy efficient design and renewable energy options for Council buildings.	\$	Implement energy efficiency and renewable energy generation actions (e.g. solar panels on Council's buildings).	Engineers advise that the most effective time to include energy efficiency and generation options is when a building is being designed prior

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
					to construction. The most recent Council building is the Library which has solar panels installed.
		(ix) Continue to develop Council's Waste Management & Minimisation Plan to reduce total waste to landfill (including promotion of the circular economy, education, service changes, etc).	\$	Develop further programmes to support waste reduction.	We are continuing the education programme – with the introduction of the wheelie bins this will change the Waste Management & Minimisation Plan requirements as it was required to be revised in 2024, this will be reviewed.
		(x) Investigate options for reducing green waste to landfills.	Staff time	Review programmes for reducing green waste to landfills and composting.	This is an ongoing process. Staff are in discussions with three companies that are interested in starting up in Marlborough.
	(b) Council decisions for planning and infrastructure design supports private individuals and businesses to reduce their emissions by 80% by 2050.	(i) Collaborate with central government initiatives for incentivising: (a) low carbon footprint buildings; (b) highly energy efficient buildings; (c) renewable energy use in	Staff time	Implement preferred options.	Building of infrastructure creates waste and the more the industry increases this the waste increases – Looking at investigating implementing construction waste sorting and recycling

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
	<p><i>Targets are based on Zero Carbon Act and will be adjusted if necessary to meet the legislation.</i></p>	<p>buildings;</p> <p>(d) reductions in refrigeration emissions from air conditioning and disposal of refrigerants;</p> <p>(e) enhanced urban/subdivision design.</p>			
		<p>(ii) Through the Marlborough Environment Plan (MEP) and other means, continue to explore housing intensification to reduce the need for car travel.</p>	\$	Implement the MEP.	<p>A review of the UR1 spatial extent and rules for residential development commenced in 2023. The review is considering planning impediments to intensification and the outcome of the review will be reported to Council. At this point in time, Council is consulting with interested and affected parties on draft recommendations. A set of recommendations will be reported to Council in early 2024.</p>
		<p>(iii) Investigate options for further promoting the Warmer Homes programme.</p>	Staff time	Support & promote the Warmer Homes programme.	Council Supports & promotes the Warmer Homes programme.

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
		(iv) Review renewable energy generation provisions in the MEP.	BAU	Planning documents enable renewable energy generation.	Planning documents enable renewable energy generation.
	(c) Year on year, use of alternative modes of transport increases, whereas use of single-occupancy internal combustion engine vehicles on Marlborough roads declines.	(i) Through the Regional Land Transport Plan, and in conjunction with NZTA, investigate options for increasing use of public transport (where this will provide the best outcome) and prepare action plan to increase public transport use.	BAU	Implement action plan to increase public transport use.	Council has trialled additional public transport services for the community. Picton to Blenheim was the only trial that proceeded to a permanent service.
		(ii) Investigate ways to incentivise use of alternative transport modes, such as ride sharing and EVs.	Staff time	Investigate ways to incentivise use of alternative transport modes, such as ride sharing and EVs.	Council supports promotions such as cycle to work month and has programmes in place to train people to ride safely on bikes.
	(d) Use of active transport (e.g. walking, cycling etc) as a form of transportation increases year on year.	(iii) Through the Regional Land Transport Plan, continue investment in new and (maintenance of) existing active transport networks.	BAU	Increased investment in new and maintenance of active transport networks. Impediments to use of network are steadily removed.	Council has budgets in place to develop active transport networks further
		(iv) Through the MEP and implementation of the Bike/Walk strategy, implement requirements on new developments to provide for active transport.	BAU	Effectiveness of provisions are monitored and reviewed as necessary.	This is carried out during discussions with developers as they progress their consent applications

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
		(v) In conjunction with central government and local agencies, fund infrastructure programmes and activities that support increased use of active transport network.	\$	Fund active transport infrastructure programmes and activities.	Council has budgets in place to develop active transport networks further
		Continue to seek and obtain co-funding for active transport network development and maintenance.	BAU	Continue to seek and obtain co-funding for active transport network development and maintenance.	This is carried out as part of the funding application process to Waka Kotahi with each NLTP funding round
2. Marlborough District becomes more resilient to the impacts of climate change.	(a) Progressively improve network infrastructure resilience to climate change risks across all Council networks.	(i) Prepare infrastructure risk and resilience assessment Asset Management Plans (AMPs) identifying critical infrastructure (i.e. water supply sources, stormwater, wastewater, transportation, and solid waste) and their vulnerability to natural hazards and climate change. The plans will also identify what infrastructure will become redundant.	BAU	AMPs account for climate change risks, uncertainty, and resilience for the entire life of current and future infrastructure (i.e. future proof design). All assets should be assessed for climate change risks at their proposed location, before decisions on siting of a new asset/replacement of existing assets are made. Funding for repair or replacement of network infrastructure incorporates accounting for climate change risks and resilience.	AMP's are normally prepared as part of each 3 yearly LTP cycle, with climate change predictions factored into planned works as part of BAU. With the previous government, AMP's were to be prepared by the new water entities for three waters. We are now in a state of uncertainty with the new government in relation to this area and are awaiting guidance.

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
		<p>(ii) Review Council's policy on emergency funds, to ensure it anticipates repair/replacement and relocation costs that factor in climate change risks ("build back better").</p> <p>Investigate the potential funding requirements of implementing this policy.</p>	Staff time	The Long Term Plan 2021-2031 incorporates emergency funds that anticipate repair/replacement/relocation costs that factor in climate change risks.	Factored into AMP's and the LTP.
	(b) New coastal development and infrastructure accounts for climate change risks, including sea level rise.	(i) Develop a coastal hazard plan including consideration of the extent of the risks, options, and regulatory responses for adaptation, relocation, coastal structures etc.	BAU	Develop a coastal hazard plan.	An assessment of projected sea level rise was reported to the Environment and Planning Committee on 5/10/23 and adopted. That included future hydrodynamic modelling of sea level rise on the Lower Wairau Plains. This information can be accessed via the Council website or through a dedicated Smart Map. Further engagement on the assessment will occur with iwi and key stakeholders.

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
		(ii) Regulatory activities (resource and building consenting) continue to account for sea level rise based on the MEP provisions and the latest MfE Guidance.	BAU	Regulatory activities (resource and building consenting) continue to account for sea level rise based on latest MfE Guidance.	Refer 2.b.i above
		(iii) Undertake and support national initiatives to undertake mapping of the coastal margins.	\$	Undertake mapping	Refer 2.b.i above
		(iv) Use the Dynamic Adaptive Pathways Planning (DAPP) and other appropriate tools in decision-making where appropriate.	BAU	Use DAPP and other tools	Refer 2.b.i above
	(c) Ecological adaptation to climate change is taken into account when making decisions.	(i) Review options for how Council can be more agile and responsive to increased biosecurity risks (including marine pathway biosecurity risks) and pest management requirements, in response to the changing climate; including through the Regional Pest Management Strategy.	Staff time	Implement new options for biosecurity and pest management.	Council has always, and continues to be agile with respect to increased biosecurity risks that may present with climate change. There has not been a definitive alteration or review undertaken - rather a continued commitment to factor-in future climate scenarios when assessing risks to current programmes or risks from new

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
					<p>threats.</p> <p>On a somewhat positive note, winter minimums and/or temperature limitations may have played a role in the unsuccessful attempt to establish some biological control agents for pest plants, for example agents targeting tradescantia. Future climate scenarios may mean a renewed attempt can be made rather than discounting it as an option.</p> <p>Examples of how climate scenarios have been factored in:</p> <p>Engaging with Environment Canterbury who have undertaken a fine-scale climate modelling exercise for a range of pest plant species. This information has been made freely available</p>

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
					<p>and is being analysed in relation to the Marlborough landscape.</p> <p>In the marine biosecurity programme - Exotic Caulerpa is a major threat now present in the upper North Island. National modelling does not generate risks for water south of East Cape. However, the scale of such modelling means local intricacies around marine conditions, including possible future states, are not captured well. As a result, a conscious decision has been made to keep it on the radar and ensure it continues to be part of the suite of risks being monitored</p>
		(ii) Continue to support the Marlborough Environment Awards and seek opportunities to recognise climate change	BAU	Seek opportunities to recognise climate change initiatives through the Marlborough Environment	The Awards take into consideration climate change elements as a cross cutting theme when judging

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
		initiatives through the Awards.		Awards.	<p>applicants. The Trust have been asked to be specific around 'climate change factors' in the judging criteria and expect that a review will occur.</p> <p>The trust is also investigating the option for a new Awards category focused on 'Energy Efficiency'.</p>
3. The Marlborough community is informed of climate change actions and options for response.	(a) Council leads the establishment of a climate change forum.	(i) Encourage community collaboration and active involvement with the Forum	Staff time	Establish and lead Forum.	Climate Change Sub-Committee established by Council
	(b) Encourage private adaptation and business adaptation to climate change by providing clear and applicable information.	(i) Obtain updated information on local climate impacts and collate and publicise relevant information.	BAU	Ongoing information gathering and publication.	Refer Council website Climate Change page for latest climate change reports
		(ii) Maintain Council's website climate change pages with relevant and up-to-date information on local impacts, options for Council and private mitigation, and Council's adaptation options and responses.	Staff time	Website maintenance and updates.	Refer Council website Climate Change page for latest climate change reports

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
		(iii) Incentivise and support ideas for innovation from the community	\$	Incentivise and support ideas for innovation from the community.	Council has \$110k budgeted for Environmental Grants for the public to apply to
		(iv) Continue to implement the Climate Change Integrated Work Programme.	BAU	Continue to implement the Climate Change Integrated Work Programme.	BAU work
4. Council shows clear leadership on climate change issues.	(a) Council's elected representatives demonstrate regional leadership.	(i) Promotion of innovations, changes and initiatives that individuals and businesses can take to reduce emissions, benefit from climate changes and improve resilience.	\$	Promotion of innovations, changes and initiatives that individuals and businesses can take to reduce emissions, benefit from climate changes and improve resilience.	BAU work
		(ii) Liaison and collaboration with local government agencies, iwi, central government and others to provide clear and consistent messaging and directions for change.	Staff time	Liaison and collaboration with local government agencies, iwi, central government and others to provide clear and consistent messaging and directions for change.	BAU work
	(b) Council's staff work collaboratively to implement the Climate Change Action Plan.	(i) Formation of a Climate Change Working Group comprising staff across Council to champion implementation of this plan which is supported by Council management and Councillors	Staff time	Climate Change Working Group continues to champion implementation of this Action Plan	BAU work
	(c) Decisions of Council consider	(i) Include assumptions for climate change in the Long Term Plan,	Staff time	Include assumptions for climate change in the Long	BAU work

Goals	Focus Areas	Actions (2019-2021)	Resources	Actions 2021-2024	Staff Comments Dec 2023
	the implications of climate change for current and future generations.	including provision for uncertainty, based on latest scientific evidence from the Intergovernmental Panel on Climate Change (IPCC).		Term Plan, including provision for uncertainty, based on the latest scientific evidence.	
		(ii) Incorporate funding provision in the Long Term Plan to implement this Action Plan.	BAU	Incorporate funding provision in the Long Term Plan to implement this Action Plan.	BAU work
		(iii) Develop an internal staff policy for guiding and informing agenda items, reports and projects.	BAU	Review and monitor implementation of the policy.	BAU work
	(d) Council reports on its progressive implementation of this Action Plan.	(i) Reporting on progress towards targets of this Action Plan is included in Council's Annual Report.	BAU	Annual reporting.	First report Jan 2024

Record No. 2012472

3. Climate Karanga Marlborough – Overview

(The Chair)

Purpose of Report

1. To provide the Committee with a general overview of Climate Karanga Marlborough.
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RECOMMENDATION

That the information be received.

Presentation

Members of Climate Karanga Marlborough will provide short presentation (10 mins)

4. General Business
