

**Notice of Meeting:**

I hereby give notice that an ordinary meeting of the Dunedin City Council will be held on:

**Date:** Tuesday 27 August 2024  
**Time:** 10.00 am  
**Venue:** Council Chamber, Dunedin Public Art Gallery, The Octagon,  
Dunedin

Sandy Graham  
Chief Executive Officer

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**Council**  
**SUPPLEMENTARY AGENDA**

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**MEMBERSHIP**

**Mayor**  
**Deputy Mayor**

Mayor Jules Radich  
Cr Cherry Lucas

**Members**

Cr Bill Acklin	Cr Sophie Barker
Cr David Benson-Pope	Cr Christine Garey
Cr Kevin Gilbert	Cr Carmen Houlahan
Cr Marie Laufiso	Cr Mandy Mayhem
Cr Jim O'Malley	Cr Lee Vandervis
Cr Steve Walker	Cr Brent Weatherall
Cr Andrew Whiley	

**Senior Officer**

Sandy Graham, Chief Executive Officer

**Governance Support Officer**

Lynne Adamson

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Governance Support Officer

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***Note:** Reports and recommendations contained in this agenda are not to be considered as Council policy until adopted.*

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	<b>REPORTS</b>	
2	Proposed 2024/25 Zero Carbon Implementation Plan	4



*Moved (Mayor Jules Radich/Cr Brent Weatherall):*

*That the Council:*

- c) **Notes** the Zero Carbon implementation plan for the current financial year

**Division**

*The Council voted by division*

*For: Crs Sophie Barker, David Benson-Pope, Christine Garey, Carmen Houlahan, Marie Laufiso, Cherry Lucas, Mandy Mayhem, Jim O'Malley, Steve Walker, Brent Weatherall, Andrew Whiley and Mayor Jules Radich (12).*

*Against: Crs Bill Acklin, Kevin Gilbert and Lee Vandervis (3).*

*Abstained: Nil*

*The division was declared CARRIED by 12 votes to 3*

**Motion carried (CNL/2023/212)**

**Zero Carbon Plan**

- 6 The Zero Carbon Plan sets out the key shifts Dunedin as a city will need to become a Zero Carbon city (excluding biogenic methane), and the actions the Dunedin City Council (DCC) will take to help bring about those changes. The Zero Carbon Plan built on work already underway and identified additional actions for the DCC to take to help Ōtepoti Dunedin achieve its emissions reduction goals.
- 7 The modelling used to develop the Plan showed that while there is a long way to go for Dunedin to achieve emissions reduction targets, net zero emissions by 2030 is possible if organisations, businesses and communities in Ōtepoti Dunedin collectively pull all the available levers as hard as possible to achieve the scale of change required. Ōtepoti Dunedin's emissions reduced between 2018/19 and 2021/22. Fewer emissions were generated, and the city's forests grew, absorbing more carbon. However, to reach net zero, Plan modelling confirmed much more needs to be done.
- 8 The Zero Carbon Plan 2030 was developed in an environment of central government co-funding for activities relating to climate adaptation and response, particularly in the Transport sector. A change in government priorities means that much of that co-funding is no longer available.

**Implementation Plans**

- 9 The 2023/24 Zero Carbon Implementation Plan included actions that could be progressed with existing resources. Alongside these, indicative actions for 2024-2034 were identified. It was anticipated that future years' Implementation Plans would be determined through the 10 year plan process. Due to the decision to prepare an Annual Plan for 2024 / 25, an Implementation Plan for 2024/25 is required.

**DISCUSSION**

- 10 Since the indicative actions for 2024-2034 were developed, the change in Government has led to changes in government policy and removal of some co-funding opportunities.

- 11 The draft 2024/25 Zero Carbon Implementation Plan only includes actions that can be progressed with existing resources and reflects the context of current government policy.
- 12 Transport and Urban Form chapter actions have been the most impacted by government policy changes. The transport sector is the second highest emitting sector in Dunedin after agriculture, and marked shifts from business-as-usual will be required by 2030 to achieve targets. The indicative actions for 2024-34 presented to Council in September 2023 therefore had a strong emphasis on projects that would support increased walking, cycling and use of public transport, as well as electrification of the vehicle fleet.
- 13 The draft 2024/25 Zero Carbon Implementation Plan reflects that changes in government policy and the availability of funding have delayed, deferred or stopped a number of these actions. The changed context also impacts other Plan chapters, albeit to a lesser degree.
- 14 Most of the 2024/25 actions are ongoing from the 2023/24 year; either because they require several years to complete and / or are business-as-usual changes that will be enduring. Future actions that require additional resourcing will be subject to annual approved budgets.

### OPTIONS

- 15 There are no options, as this is a noting report only.

### NEXT STEPS

- 16 The 2024/25 Zero Carbon Implementation Plan will progress within approved 24/25 departmental budgets.

### Signatories

Author:	Florence Reynolds - Acting Manager - Zero Carbon
Authoriser:	Scott MacLean - General Manager, Climate and City Growth

### Attachments

	<b>Title</b>	<b>Page</b>
<a href="#">↓A</a>	Draft 2024/25 Zero Carbon Implementation Plan	9

**SUMMARY OF CONSIDERATIONS**

***Fit with purpose of Local Government***

Implementation of the Zero Carbon Plan is anticipated to promote the social, economic and environmental wellbeing of communities in the present and for the future, by facilitating the transition to a low carbon economy.

***Fit with strategic framework***

	Contributes	Detracts	Not applicable
Social Wellbeing Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Economic Development Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Environment Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Arts and Culture Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
3 Waters Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Future Development Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Integrated Transport Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Parks and Recreation Strategy	✓	<input type="checkbox"/>	<input type="checkbox"/>
Other strategic projects/policies/plans	✓	<input type="checkbox"/>	<input type="checkbox"/>

Elements of the Plan have been assessed as directly contributing to the goals of all strategies and the DCC's Emissions Management and Reduction Plan.

***Māori Impact Statement***

A critical Treaty of Waitangi analysis was prepared previously as part of the Zero Carbon work programme. This indicated that, in general, taking action on climate change is aligned with Treaty of Waitangi obligations because a wide range of taonga are at risk from climate change. Individual Implementation Plan projects will need to consider the Māori Strategic Framework and incorporate mana whenua and mātāwaka inputs during planning and delivery.

***Sustainability***

Without cuts to emissions, climate change impacts will further accelerate, with commensurate negative impacts on the social, environmental, cultural, and economic wellbeing of New Zealand communities. Conversely, actions to reduce emissions generally have co-benefits in terms of community wellbeing.

***LTP/Annual Plan / Financial Strategy /Infrastructure Strategy***

The 2024/25 Implementation Plan includes actions that can be progressed within existing resourcing.

***Financial considerations***

There are no additional costs for the recommended option. The 2024/25 Implementation Plan includes only actions that can be undertaken within existing resourcing. Further Implementation Plans will be considered through the Long Term Plan process.

***Significance***

The 2024/25 Zero Carbon Implementation Plan is considered low significance as it relates to an existing Plan adopted by Council.

***Engagement – external***

Substantial external engagement was undertaken during development of the Zero Carbon Plan.

**SUMMARY OF CONSIDERATIONS**

***Engagement - internal***

Substantial internal engagement was undertaken in Zero Carbon Plan and Implementation Plan development. Teams have provided updates on the actions they are leading.

***Risks: Legal / Health and Safety etc.***

There may be reputational risks for the DCC associated with non-delivery on emissions reduction ambitions, given the target adopted by Council in 2019. Audit New Zealand currently has a focus on reporting on progress towards a emissions reduction targets.

***Conflict of Interest***

No conflict of interest has been identified.

***Community Boards***

A workshop involving members of all community boards was held to inform Zero Carbon Plan development.



Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
<b>Resource Use and Waste</b>							
Resources	<b>KS1</b>	<b>Use resources in a more circular way</b>					
Resources	<b>KS2</b>	<b>Divert more waste from landfill</b>					
Resources	<b>AA 1</b>	<b>Enable communities to re-use and recycle resources</b>				<b>Minor</b>	
Resources	R1.1.1	Continue to develop and support existing resource recovery parks: Green Island, Waikouaiti, Middlemarch	WES	DCC-led	Yes		Green Island RRP resource consent pending.
Resources	R1.1.4	Work with community partners to support three or more communities to establish new community-led resource/recycling centres in local neighbourhoods	WES with support from ZC	In partnership	Yes	Priority Action	Engagement across a range of communities has commenced and will continue. Community site opportunities and options pending. Refer R1.1.5 below.
Resources	R1.1.5	Complete business case for a wider network of community-led resource/recycling centres in local neighbourhoods	WES with support from ZC	In partnership	Yes		Work underway.
Resources	R1.1.8	Continue to support/run and grow a calendar of community events and education to divert household items from landfill, including repair cafes and Para Kore	WES	DCC-led / in partnership	Yes		Ongoing - from in-house resource, through contracted external providers and via waste minimisation community grants.
Resources	<b>AA 2</b>	<b>Support collaboration for circularity</b>				<b>Moderate</b>	
Resources	R1.2.1	Expand supports for waste minimisation education, projects, facilities, and services to include initiatives that support resource circularity, and to ensure that key services can access multi-year funding.	WES	DCC-led	Yes		Opportunities to expand in these areas is ongoing. Some actions would likely be included in the new WMMP for 2024-2030.
Resources	R1.2.3	Require DCC contracts with the potential for large waste volumes to minimise waste through standardised Zero Carbon approach – refer to Communities and Economies (Key shift 4)			Yes		
Resources	<b>AA 3</b>	<b>Enable food and garden organics to be composted</b>				<b>Moderate</b>	
Resources	R1.2.2a	Progress collaborative work on circular economy with partners	ZC with WES support	In partnership	Yes	Priority Action	Progressing through actions underway e.g. construction and demolition waste business case development (underway), and Zero Carbon Alliance. Waste minimisation community network established.
Resources	R1.3.1a	Work to secure resource consent for Green Island redevelopment for composting facility	WES	DCC-led	Yes		Organics receives building operating now. Resource consent pending for GI redevelopment.
Resources	R1.3.4	Encourage and support waste-related improvements to the Land and Water Regional Plan including improving provisions for composting	WES and ZC	Partner-led	Yes		Provisions in early draft, but timing dependent on LWRP programme.
Resources	<b>AA 4</b>	<b>Enable construction waste to be reduced, re-used and recycled</b>				<b>Moderate</b>	
Resources	R1.4.1a	Work to secure resource consent for Green Island redevelopment for storing and sorting timber diverted from landfill (refer to R1.1.1. and R1.2.2a)					
Resources	R1.4.2	Continue collaborating with other councils to identify or create solution for timber and other regional waste processing infrastructure	WES	In partnership	Yes	Priority Action	Regional waste officer appointed to progress Otago TA partnership projects.
Resources	R1.4.3	Explore with community partners the potential for construction waste re-use hub(s)	WES with ZC support	In partnership	Yes		Initial site assesment criteria developed. Discussions ongoing with community and C&D partners.
Resources	R1.4.5	Explore options for incentives to encourage low carbon, circular, low waste design for construction projects	WES with ZC support	DCC-led	Yes		Research underway to identify options.
Resources	R1.4.7	Explore ways to support the establishment and operation of building deconstruction services	WES with ZC support	In partnership	Yes		Exploring case study opportunities through Zero Carbon Alliance.

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Resources	R1.4.9	Deliver a pilot programme for construction waste separation	WES	DCC-led	Yes		Original skip pilot being expanded to include other construction site solutions e.g. fadge bags.
Resources	R1.4.10	Undertake and publish case studies on separating construction waste and reducing waste in design	WES	DCC-led	Yes		Two existing case studies, more being prepared.
Resources	R1.4.11	Publish information about best practice for reducing construction material use and waste through design and construction	WES	DCC-led	Yes		Webpage set up to enable publication of best practice resources.
Resources	<b>AA 5</b>	<b>Enhance waste minimisation education and facilities</b>				<b>Minor</b>	
Resources	R1.5.1	Continue to expand provision of waste minimisation information and education, including developing an online information hub, a mobile waste education unit and delivering a business education programme	WES	DCC-led	Yes		Opportunities to expand these services are being investigated.
Resources	R1.5.2	Work to secure resource consent for Green Island redevelopment to provide more infrastructure for waste diversion (refer to R1.1.1. and R1.2.2a)					
Resources	R1.5.4	Explore how to best support businesses to undertake waste audits and develop waste minimisation plans	WES	DCC-led	Yes		Opportunities for business waste minimisation education and support, including waste audits, are being investigated.
Resources	R1.5.5	Support business to undertake waste audits and develop waste minimisation plans	WES	In partnership	Yes	Priority Action	Dependent on outcomes of above investigation.
Resources	<b>AA 6</b>	<b>Improve data on resource use and waste</b>				<b>Minor</b>	
Resources	R1.6.3	Undertake study to determine source of paper sent to landfill	WES	DCC-led	Yes	Priority Action	To be scoped in 2024/25.
Resources	R1.6.5	Undertake study to determine source and composition of textiles sent to landfill	WES	DCC-led	Yes		To be scoped in 2024/25.
Resources	<b>KS 3</b>	<b>Improve landfill and wastewater gas management</b>					
Resources	<b>AA 7</b>	<b>Divert biosolids and minimise emissions from wastewater treatment</b>				<b>Minor</b>	
Resources	R3.7.1	Explore options for a long-term biosolids solution	3W / WES	DCC-led	Yes		Programme for development of a long term Bioresources Strategy, including interim solutions is in place. Steering Group has been established with Aukaha membership supporting iwi interests and communication.
Resources	R3.7.3	Build Zero Carbon considerations into 3 Waters Integrated System Planning	3W with support from ZC	DCC-led	Yes		Technical documents completed. Dynamic Adaptive Pathway Plan identified for each water with pathway to projects identified.
Resources	<b>AA 8</b>	<b>Improve landfill and wastewater gas capture</b>				<b>Minor</b>	
Resources	R3.8.2	Purchase and install gas engine at Green Island Landfill	WES	DCC-led	Yes	Priority Action	On track. Preparatory work likely to commence in 24/25, installation in 25/26.
Resources	R3.8.3	Continue work to optimise gas capture and destruction at Green Island Landfill	WES	DCC-led	Yes	Priority Action	Work continues as planned.
Resources	R3.8.4	Deliver a gas flare at Mosgiel Waste Water Treatment Plant	3W	DCC-led	Yes		Programmed for delivery. Construction delayed.
Resources	R3.8.5	Undertake monitoring and explore other improvements to the capture and destruction of greenhouse gases produced in wastewater treatment processes	3W with ZC support	DCC-led	Yes		Reporting dashboards developed to actively collate data, monitor and report GHG emissions at Tahuna, Mosgiel and GI WWTPs in near real time is complete
Resources	R3.8.6	Implement other improvements to the capture and destruction of greenhouse gases produced in wastewater treatment processes	3W with ZC support	DCC-led	Yes		Works programmed for some short - medium term improvements. (To increase incinerator efficiency/capacity and to decrease diesel consumption). Opportunity to implement improvements to incinerator not able to be realised in 2023/24. Requires additional long term funding.

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
<b>Transport and Urban Form</b>							
Transport	<b>KS1</b>	<b>Nurture low emissions urban form</b>					
Transport	<b>AA 1</b>	<b>Encourage density close to centres and public transport</b>				<b>Moderate</b>	
Transport	T1.1.1	Build Zero Carbon considerations into the 3 Waters growth capital programme	3W with support from ZC	DCC-led			Prioritisation tool for 3W Growth Capital Programme has been developed.
Transport	T1.1.2	Deliver the 3 Waters growth capital programme	3W	DCC-led			Implementation of prioritisation tool for 3W Growth Capital Programme part of 2024/25 Capex and ongoing.
Transport	T1.1.3	Build Zero Carbon considerations into 3 Waters Integrated System Planning – Refer Resources Key shift 3					
Transport	T1.1.5a	Undertake a review of 2GP provisions and develop associated guidance documents to support Zero Carbon outcomes including related to the following: •Improved on-site amenity for multi-unit residential developments •Shared transport options for multi-unit residential and commercial developments •End of trip facilities for commercial developments •Shared infrastructure for EV charging in multi-unit residential and commercial developments	City Development	DCC-led			The City Development team are currently reviewing the rules that manage the design of multi-unit housing, this review will look at whether the Plan should manage on-site amenity beyond the current standards in the Plan. The other elements are not currently included in the forward work programme and would require funding or additional resourcing to progress.
Transport	<b>AA 2</b>	<b>Strengthen neighbourhood centres</b>				<b>Minor</b>	
Transport	T1.2.2	Consider actions to promote the use and reuse of vacant spaces, including through residential use, as part of Heritage Action Plan implementation plan development	City Development	DCC-led			Heritage Action Plan complete. Implementation Plan in development, to be considered as part of 9YP. The actions that may get undertaken or funded are unclear at this stage. The building incentives review (report to 9YP) being led by Principal Policy Advisor Housing is also covering this topic.
Transport	T1.2.6	Complete South Dunedin Library	Property	In partnership			Project continuing as planned.
Transport	T1.2.7	Build Zero Carbon considerations into aquatic, reserves management plans, sports facilities, and open space network reviews	PARS with support from ZC	DCC-led			Reserve Management Plans underway, currently in draft. Zero Carbon considerations built into process.
Transport	<b>AA 3</b>	<b>Design urban form for connectivity</b>				<b>Minor</b>	
Transport	T1.3.2	Continue to improve DCC pre-application and consent processes to achieve better outcomes for connectivity and urban design, with an initial focus on major subdivisions and developments	City Development Engineer with support from PARS, Transport, City Development	In partnership			Pre-application meetings between DCC and developers have resulted in positive outcomes for larger subdivisions, reducing rework and confusion. The pre-application meetings are still a work in progress and are being refined every time DCC use them.
Transport	T1.3.3	Encourage and support ORC to involvement in pre-application and consent processes for major subdivisions and developments to maximise potential integration with the public transport network (including through RLTP and RPTP processes, and Otago Climate Strategy development, as appropriate)	Transport and City Development with support from ZC	In partnership			All consent processes for major subdivisions involve a transport assessment (or if they are larger a full integrated transport assessment). As part of that assessment there is an evaluation of the available public transport to support the area in question. As part of the FDS, the Transport team alongside City Development identified the areas of growth and what additional public transport infrastructure would be needed. The ORC were also part of the FDS so they could consider the growth in their planning for bus routes.
Transport	T1.3.5	Undertake a review of 2GP provisions and develop associated guidance documents - Refer Transport AA1					

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Transport	<b>KS2</b>	<b>Target closer markets, encourage local destinations, and inspire longer stays</b>					
Transport	<b>AA 4</b>	<b>Align destination and events management</b>				<b>Moderate</b>	
Transport	T2.4.1	Build Zero Carbon considerations into Destination Management Plan implementation and other Regional Tourism Organisation (RTO) activities	ED with support from ZC	In partnership		Priority Action	Activity commenced and will continue to be delivered in 2024/25.
Transport	T2.4.2	Establish a baseline for emissions from cruise vessels	ZC	In partnership			Nearing completion.
Transport	<b>AA 6</b>	<b>Encourage low carbon recreation</b>				<b>Minor</b>	
Transport	T2.6.1	Implement the <i>Play Spaces Plan 2021</i> and <i>Recreation Tracks Plan 2022</i>	PARS	DCC-led			Upgrades to playgrounds at St Clair and Botanic Garden scheduled.
Transport	T2.6.2	Explore opportunities to optimize promotion of local destinations and recreation opportunities to local people, and implement options identified.	PARS with support from ED	DCC-led			Work is ongoing.
Transport	T2.6.3	Support community groups developing and implementing regional cycleway connections: - Waiholā to Wingatui cycle trail connection - Cycle trail connecting coastal communities north of Dunedin	Transport and ZC	Partner-led			
Transport	<b>KS 3</b>	<b>Unlock remote solutions</b>					
Transport	<b>AA 8</b>	<b>Provide virtual and low-emissions mobile solutions</b>				<b>Minor</b>	
Transport	T3.8.3	Deliver DCC eServices programme	BIS	DCC-led			First large release has successfully gone live with 'Solicitors Portal' allowing our solicitor community to organise the day of sale transfer through the new portal.
Transport	<b>KS 4</b>	<b>Develop convenient and attractive cycling and walking networks and public transport services</b>					
Transport	<b>AA 9</b>	<b>Complete urban cycleway networks and improve priority pedestrian networks</b>				<b>Moderate</b>	
Transport	T4.9.1	Develop <i>Otepoti - Dunedin pathways: A walking and cycling plan</i> that aligns with Zero Carbon goals	Transport / Zero Carbon	DCC-led			Plan drafted, presenting to ISCOM in October 24 with a costed programme of works for consideration in the 9YP.
Transport	T4.9.3	Deliver Dunedin Tunnels Trail	Transport	In partnership			Work underway. Ongoing work to be considered in 9YP.
Transport	T4.9.8	Deliver Transport Choices - South Dunedin Schools programme (behaviour change elements only)	Transport	DCC-led			Infrastructure changes were cancelled, behaviour change (Transport Choices Schedule 2, which remained funded at a 90% FAR rate) is currently being delivered.
Transport	T4.9.11	Plan and deliver remaining stages of the Central City Plan	PPSO / Transport	DCC-led			Report to be tabled with council in September 2024. Funding decisions to form part of 9YP.
Transport	T4.9.15	Deliver SFDT Central City Cycle and Pedestrian Improvements – St Andrew St	Transport	Partner-led			Currently working on this with NZTA, as part of the revocation process of swapping SH88 from St Andrew St to Frederick St.
Transport	T4.9.21	Consider planning phase walking/cycling/public transport improvement projects (including relevant Shaping Future Dunedin Transport programme projects, additional stages of the Central City Plan, Dunedin Tunnels Trail) through 9 Year Plan development	Transport, ZC	DCC-led			
Transport	<b>AA 10</b>	<b>Support improvements in public transport service frequency, operating hours and quality, while maintaining affordability for users</b>				<b>Moderate</b>	

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Transport	T1.10.1a	Encourage and support the ORC to improve public transport service frequency, especially on key routes, while maintaining affordability for users (including through RLTP and RPTP processes and the Otago Climate Strategy development, as appropriate)	Transport with support from ZC	Partner-led			
Transport	T4.10.5	Encourage and support the ORC to align public transport services to better meet the needs of students and staff travelling to school and after-school sports (including through RLTP and RPTP processes and the Otago Climate Strategy development, as appropriate)	Transport with support from ZC	Partner-led			Integrated into BAU.
Transport	T4.10.6	Complete feasibility study into passenger rail, with an initial emphasis on a service between Mosgiel and Dunedin	Transport	DCC-led			Study almost completed. Costing available for consultation on rail passenger services as part of the 9Y plan.
Transport	<b>AA 11</b>	<b>Support extensions to the geographic reach of public transport services</b>				<b>Moderate</b>	
Transport	T4.11.1	Encourage and support ORC to investigate, trial and implement new network units (routes) as per the RPTP (including through RLTP and RPTP processes and Otago Climate Strategy development, as appropriate)	Transport with support from ZC and ED	Partner-led			Integrated into BAU.
Transport	T4.11.3	Encourage and support central government and other agency investigation and implementation of inter-regional public transport (including through changes to government regulatory and investment processes, RTO activities, and Otago Climate Strategy development, as appropriate)	ZC with support from Transport and ED	Partner-led			Integrated in BAU. DCC has also been working with Otago University through the Zero Carbon Alliance to investigate events-based train service.
Transport	<b>AA 12</b>	<b>Support improvements in the quality and consistency of bus stops and bike facilities</b>				<b>Minor</b>	
Transport	T4.12.1a	Respond to any opportunities to improve the quality and consistency of bus stops and bike facilities (including through changes to government regulatory and investment processes, RTO activities, and Otago Climate Strategy development, as appropriate)	Transport	DCC-led		Priority Action	No funding available.
Transport	<b>KS 5</b>	<b>Boost travel demand management to support use of active and public modes</b>					
Transport	<b>AA 13</b>	<b>Align parking management and consider other pricing mechanisms</b>				<b>Moderate</b>	
Transport	T5.13.1	Develop a Parking Management Policy that aligns with Zero Carbon goals	Transport with support from ZC	DCC-led			
Transport	T5.13.2	Implement the Parking Management Policy, including through area-based parking management plans	Transport	DCC-led		Priority Action	Delayed due to resourcing constraints. However, will be completed in the 2024/25 year.
Transport	T5.13.3	Encourage and support central government to expand and align pricing and enforcement tools and provide best practice guidance on their application by local government	Transport / ZC	Partner-led			Central Government proposed parking fee increases. Due to short submission timeframe (3 working days), DCC did not submit. BAU to submit for future opportunities if possible.
Transport	<b>AA 14</b>	<b>Establish and promote car share</b>				<b>Minor</b>	
Transport	T5.14.1	Facilitate establishment of commercial car share in Dunedin	Transport with support from ZC	In partnership		Priority Action	In progress.
Transport	T5.14.2a	Undertake a review of 2GP provisions and develop associated guidance documents - Refer Transport AA1 (T1.1.5a)					
Transport	<b>AA 15</b>	<b>Expand workplace and school travel planning and road safety promotion</b>				<b>Moderate</b>	

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Transport	T5.15.2a	Continue to deliver existing travel demand management programmes, including for schools.	Transport	In partnership		Priority Action	
Transport	T5.15.4	Develop the Dunedin Road Safety Plan	Transport	DCC-led			
Transport	<b>AA 16</b>	<b>Improve access to bikes and e-bikes</b>				<b>Minor</b>	
Transport	T5.16.1	Explore with community partners the potential for a local initiative that improves e-bike access	ZC with support from Transport / Community Development	In partnership	Yes		Early exploration through the Zero Carbon Alliance is being undertaken on options that improve access to e-bikes for commuting purposes. Further work will be a priority for 2024/25.
Transport	<b>AA 17</b>	<b>Improve connections between modes</b>				<b>Minor</b>	
Transport	T5.17.2	Encourage and support the owners/operators of existing transport infrastructure to improve connections between modes: - Dunedin bus hub - Dunedin Airport - Port Otago (including through RTO activities, the DCHL Carbon Roadmap, and Otago Climate Strategy development as applicable)	ZC with support from ED / Transport	Partner-led			Integrated in BAU.
Transport	<b>KS 6</b>	<b>Shift freight to low emissions modes</b>					
Transport	<b>AA 18</b>	<b>Support freight to shift to rail and coastal shipping</b>				<b>Minor</b>	
Transport	T6.18.1	Complete a feasibility study of inland freight hub(s)	Transport	DCC-led			Freight hubs are being investigated. To be aligned with Zero Carbon, it would need to result in reduced truck movements.
Transport	<b>AA 19</b>	<b>Support growth of e-bikes and micro-mobility for last mile delivery</b>				<b>Minor</b>	
Transport	T6.19.3	Consider the needs of low emissions last-mile delivery modes in the Central City Upgrade and other centers upgrades	PPSO with support from Transport, City Development	DCC-led			As part of the George St Retail Precinct Upgrade, DCC ran a trial with e-bike courier services and provided incentives for businesses to participate. Lack of Waka Kotahi co-funding may constrain further action.
Transport	<b>KS 7</b>	<b>Electrify light vehicles</b>					
Transport	<b>AA 20</b>	<b>Facilitate a network of EV charging infrastructure</b>				<b>Moderate</b>	
Transport	T7.20.1	Develop and implement an EV charge infrastructure policy that makes provision for the use of DCC land, facilities, and roads to support public EV charging, subject to certain criteria being met	Transport, with support from ZC	DCC-led		Priority Action	In progress.
Transport	T7.20.2	Work with relevant stakeholders to identify investment needs for public EV charge infrastructure, promote electricity network capability, and ensure regional coverage of electric vehicle charging infrastructure	Transport	In partnership		Priority Action	Note, to progress EV charge infrastructure policy first.
Transport	T7.20.3a	Undertake a review of 2GP provisions and develop associated guidance documents - Refer Transport AA 1					
Transport	<b>AA21</b>	<b>Support electrification of service vehicles and last mile delivery</b>				<b>Moderate</b>	

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Transport	T7.21.3	Invest in infrastructure to support continued DCC fleet electrification	Fleet / Property with ZC support	DCC-led	Yes		Detailed planning work to progress in 24/25, for delivery in 25/26 (dependent on 9YP funding for 25/26).
Transport	<b>KS 8</b>	<b>Decarbonise heavy vehicles, marine and aviation</b>					
Transport	<b>AA 23</b>	<b>Support transition to low- and zero-emission fuels for heavy vehicles</b>				<b>Minor</b>	
Transport	T8.23.1	Encourage and support the ORC to fast-track planned shifts to low emission vehicles or alternative fuels and technologies for contracted public transport services, as per the RPTP (including through RLTP and RPTP processes, Otago Climate Strategy development, and the ZCA, as applicable)	Transport with support from ZC	Partner-led			Integrated into BAU.
Transport	T8.23.2	Consider if freight needs should be included in planning for EV charging infrastructure	Transport	In partnership			
Transport	<b>AA 24</b>	<b>Support the transition to low- and zero-emission fuels for marine and aviation</b>				<b>Moderate</b>	
Transport	T8.24.1	Encourage and support central government to take action to reduce emissions from shipping and aviation	ZC	Partner-led			Submission made to Climate Change Commission on this topic in 23/24. Future opportunities to progress this action will be undertaken as they arise.
Transport	T8.24.2	Encourage and support key stakeholders to explore the provision of shore power at Port Chalmers (including through RTO activities, the DCHL Carbon Roadmap, and the Otago Climate Strategy, as appropriate)	ZC with support from ED	Partner-led		Priority Action	Port Otago have kept DCC updated on progress regarding this through 2023/24. The feasibility of shore power has been investigated, with no current plans to install shore power due to capacity constraints/considerable investment required and a lower activity base that does not enable cost recovery. DCC will keep in contact with Port Otago for updates on any changes to the investment/policy settings.
Transport	T8.24.3	Encourage and support Dunedin Airport to position for early adoption of low carbon aviation fuels (including through RTO activities, the DCHL Carbon Roadmap, and the Otago Climate Strategy, as appropriate)	ZC with support from ED	Partner-led		Priority Action	During 23/24 all members of the Zero Carbon Alliance, including DCC, submitted letters of support for the joint Southern Airport Alliance bid to host New Zealand's first commercial zero emissions plane. This bid was unsuccessful. DCC will progress this action as any opportunities arise.
<b>Buildings, Energy and Industry</b>							
Energy	<b>KS1</b>	<b>Switch to low carbon stationary energy sources</b>					
Energy	<b>KS2</b>	<b>Improve energy efficiency of buildings and industry</b>					
Energy	<b>AA 1</b>	<b>Support the transition to fossil-fuel free process heat</b>				<b>Moderate</b>	
Energy	E1.1.1	Encourage and support central government to progress planned decarbonisation of the national electricity grid	ZC	Partner-led			Integrated into BAU.
	E1.1.3a	Explore options to support businesses using fossil fuelled boilers/process heat with a capacity less than 500kW (especially LPG boilers) to develop decarbonisation plans	ZC	In partnership			EECA's Regional Energy Transition Accelerator programme identified a possible role for the DCC working to identify building owners/energy users with fossil-fuelled process heat smaller than 500kW, and supporting their transition. Possible approaches to progress this will be considered alongside the SME support programme.
Energy	E1.1.5	Build Zero Carbon considerations into the revision of the Economic Development Strategy, including by way of a low carbon future economy opportunities/innovation scan (see Communities and Economies chapter AA 6)					
Energy	<b>AA 2</b>	<b>Replace fossil fuels and improve energy efficiency of DCC facilities</b>				<b>Minor</b>	

Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Energy	E1.2.1	Deliver heat recovery system at Moana Pool	PARS	DCC-led	Yes		Decisions pending on timeframe to deliver second heat recovery system. Existing heat recovery system is still operational.
Energy	E1.2.3	Develop detailed cases to improve energy efficiency and displace LPG use at - Civic Centre - Dunedin City Library - Dunedin Public Art Gallery - Toitu Otago Settlers Museum - Dunedin Railway Station - Regent Theatre	Property	DCC-led	Yes		Civic Centre, Dunedin City Library, Dunedin Public Art Gallery, Toitu all progressing as planned, in the early stages of investigation and planning.
Energy	E1.2.7	Explore options to displace stationary diesel use at wastewater treatment plants	3W with ZC / Property support	DCC-led	Yes		Consideration within scope of Long Term Bioresources Strategy.
Energy	E1.2.11	Implement preferred option to improve the overall energy efficiency and displace LPG use at Andersons Bay Crematorium	PARS	DCC-led	Yes	Priority Action	Options to reduce LPG at Andersons Bay Crematorium were investigated in 2023/24. Upgrade to LPG boilers to improve energy efficiency to be delivered in 24/25.
Energy	E1.2.12	Explore and implement other upgrades to improve energy efficiency and displace stationary diesel and LPG use at other PARS facilities	PARS	DCC-led	Yes		Investigations into alternatives to LPG are ongoing. Smaller use sites with short periods of high demand for hot water (such as sportgrounds) are currently impractical and/or cost prohibitive to switch from LPG.
Energy	<b>AA 3</b>	<b>Support energy efficiency and the transition away from fossil fuels in homes</b>				<b>Minor</b>	
Energy	E1.3.1	Explore options to increase residential and community energy efficiency and address energy hardship through Housing Action Plan implementation, and design programme or solution	Housing, with ZC support	DCC-led			Forms part of wider incentives work programme. A report on options is due in time to inform 9YP.
Energy	E1.3.2	Pilot residential energy efficiency programme	Housing, with ZC support	In partnership			Original pilot proposal received insufficient co-funding from Central Government. Some significantly de-scoped actions undertaken.
Energy	E1.3.3	Explore options to promote or incentivise transition to low emissions solutions for heating and cooking in existing homes	Zero Carbon with Housing support	DCC-led			Forms part of wider incentives work programme. A report on options is due in time to inform 9YP.
Energy	E1.3.5	Explore options to promote or incentivise energy efficient, low emissions new builds and retrofits	Housing with ZC support	DCC-led			Forms part of wider incentives work programme. A report on options is due in time to inform 9YP.
Energy	E1.3.7	Publish information and case studies about the benefits and disbenefits of different residential energy solutions	ZC with Housing support	DCC-led			Not progressed in 2023/24. In 2024/25 work programme.
Energy	E1.3.8	Encourage and support improvements to the Otago Air Plan relating to energy use and associated emissions	City Development, with ZC support	Partner-led			Consultation recently opened, with DCC submission anticipated in 24/25.
Energy	E1.3.9	Support development of an Otago Climate Strategy – refer to Forestry, Land and Agriculture chapter					
Energy	<b>KS3</b>	<b>Increase local renewable generation</b>					
Energy	<b>AA 4</b>	<b>Grow renewable energy generation from DCC-owned assets</b>				<b>Minor</b>	



Chapter	Reference #	Description	DCC Lead/Support Teams	Role of DCC	DCC EMRP action	Emissions Reduction Potential	Comment on progress to date
Energy	E3.4.1	Consider opportunities for renewable generation associated with 3 Waters infrastructure as part of 3 Waters Integrated System Planning	3W	DCC-led	Yes		Delivery phase of ISP. No activity in this planning cycle.
Energy	E3.4.4	Explore options for renewable energy generation associated with other DCC assets, as part of other energy efficiency and decarbonization work programmes	Property	DCC-led	Yes		Investigation and detailed planning on use of wastewater thermal energy has occurred through 2023/24, continuing into 2024/25.
Energy	<b>AA 5</b>	<b>Grow renewable energy generation in the community</b>				<b>Minor</b>	
Energy	E3.5.1	Encourage and support implementation of the DCHL Carbon Roadmap (refer Communities and Economies Action Area 4)					
Energy	E3.5.2	Explore options to promote or incentivise renewable energy generation on community assets and residential property	ZC with Property support	DCC-led		TBC	Forms part of wider incentives work programme. A report on options is due in time to inform 9YP.
Energy	<b>KS4</b>	<b>Reduce emissions from refrigerants</b>					
Energy	<b>AA 6</b>	<b>Reduce refrigerant emissions and liabilities</b>				<b>Minor</b>	
Energy	E4.6.1	Continue to reduce the GWP of refrigerants on DCC property, as part of other energy efficiency and decarbonization work programmes	Property	DCC-led	Yes		Reducing reliance on refrigerants, and reducing the GWP of refrigerants required in new energy systems is part of BAU design and planning (see action E1.2.3).
Energy	E4.6.2	Publish information and case studies about high and low GWP refrigerant options and responsible disposal options	ZC w WES & Property support	DCC-led			
<b>Forestry, Land and Agriculture</b>							
FLAG	<b>KS1</b>	<b>Reduce emissions from agriculture</b>					
FLAG	<b>AA 1</b>	<b>Support emissions reduction in agriculture</b>				<b>High</b>	
FLAG	F1.1.1	Support the development of an Otago Climate Strategy that aligns with Zero Carbon goals	ZC	Partner-led		Priority Action	In progress.
FLAG	F1.1.4	Explore with relevant stakeholders ways to support innovation in the agricultural sector within the region (refer Communities and Economies KS1)					
FLAG	<b>KS2</b>	<b>Grow sequestration that aligns with mana whenua and community values</b>					
FLAG	<b>AA 2</b>	<b>Support growth of sequestration that aligns with mana whenua and community values</b>				<b>High</b>	
FLAG	F2.2.1	Support the completion of a regional sequestration study	ZC	Partner-led			DCC has co-funded work commissioned by ORC to study existing and potential capacity within the district.
FLAG	F2.2.2	Explore options to encourage and support growth in sequestration that aligns with mana whenua and community values, including the role of DCC and DCHL offsetting (if any)	ZC	DCC-led			Research phase ongoing, planning for engagement once ORC-led sequestration study results finalised and understood (see F2.2.1).



