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# Climate Action Plan

Implementation Plan 2021/22 and 2022/23



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## Introduction

The *Climate Action Plan (2021)* sets the direction for Council's response to the challenge of climate change over a ten-year period. This Implementation Plan defines the highest priority actions for implementation over the first two years. This Implementation Plan does not duplicate background information found in the Climate Action Plan, but presents tangible actions that will be undertaken by Council either alone or in partnership with our community or other organisations over the next two years.

Actions are grouped in tables according to the key themes of the Climate Action Plan. It is acknowledged that actions may support multiple themes and targets identified in the Climate Action Plan,

however to avoid duplication actions have been nominally placed against themes they appear to be most aligned with. In some cases, where an action has strong links to multiple themes, the action has been included in the Overarching actions section.

There is also a complementary activities section which highlights some of Council's many complementary activities that are consistent with the Climate Action Plan's vision and objectives.

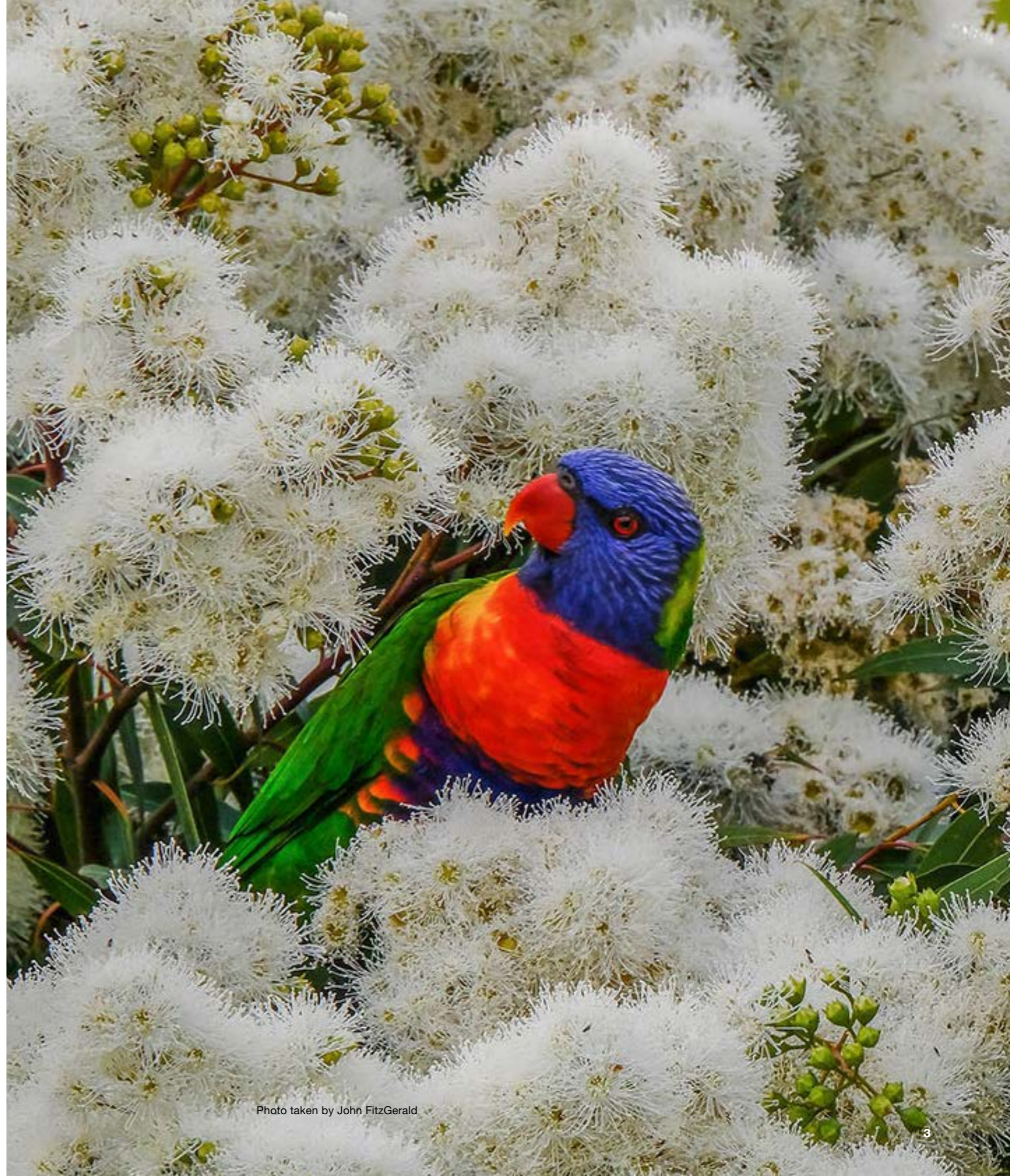
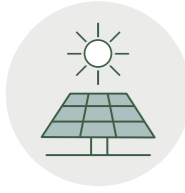


Photo taken by John FitzGerald





## Energy efficiency and renewable energy

Corporate action description	Time frame	Climate Action Plan linkage
1.1 Offset corporate greenhouse gas emissions to meet Council's carbon neutrality commitment.	21/22 22/23	This aligns with action 1.4 and supports the target of Council being net carbon neutral by 2022.
1.2 Install additional solar PV on five-eight buildings and conduct audit of remaining building portfolio to identify future PV sites.	21/22 22/23	This aligns with action 1.2 and supports the target to install 1MW additional solar PV on Council buildings by 2030.
1.3 Implement outstanding actions from audits completed prior to 2022.	21/22 22/23	This aligns with action 1.5 and supports the target of 90% Council actual emission reduction by 2030.
1.4 Undertake audits of four-six Council buildings to identify least cost of abatement energy efficiency upgrades (excluding buildings that have undergone recent renewal).	21/22 22/23	This aligns with action 1.6 and supports the target of 90% Council actual emission reduction by 2030.
1.5 Purchase electric small plant and equipment such as chainsaws and blowers.	21/22	This aligns with action 1.8 and supports the target of 90% Council actual emission reduction by 2030.
1.6 Implement electric upgrades at four sites (natural gas disconnection).	22/23	This aligns with action 1.3 and supports the target of a 50% reduction in the number of Council buildings using gas by 2030.
1.7 Purchase green electricity for Council's small sites (approximately 20% of electricity used by Council).	21/22	This action supports the target of 90% Council actual emission reduction by 2030.
1.8 Continue replacing residential streetlights with efficient globes and technology. Over 7000 lights have already been upgraded.	Ongoing	This action supports the target of 90% Council actual emission reduction by 2030.
1.9 Purchase 100% renewable energy for Council's main buildings and streetlights via a Power Purchase Agreement. Since July 2020, approximately 80% of Council used electricity is generated at a Victorian wind farm.	Ongoing	This action supports the target of 90% Council actual emission reduction by 2030.
1.10 Update major road streetlight feasibility study and seek State Government funding to implement.	21/22	This aligns with action 1.7 and supports the target of 90% Council actual emission reduction by 2030.

Partnership action description	Time frame	Climate Action Plan linkage
1.11 Implement a solar PV bulk buy program for homes and businesses. Subject to feasibility, program will include additional products such as batteries and heat pumps.	21/22 22/23	This aligns with action 1.9 and supports the target of 50,000kW additional solar PV (currently 27,000 kW) on buildings in the community by 2030.
1.12 Develop and deliver a home and business energy audit program.	21/22 22/23	This aligns with action 1.15 and supports the target of 60% community emissions reduction by 2030.
1.13 Provide sustainability resources for loan via the Boroondara Libraries. Items including: <ul style="list-style-type: none"> <li>Power monitors for electricity audits</li> <li>Simple thermal cameras to identify 'leaky' buildings.</li> </ul>	Ongoing	This aligns with action 1.12 and supports the target of 60% community emissions reduction by 2030.
1.14 Provide increased support for community leadership on climate action.	21/23 22/23	This aligns with action 1.12 and supports the target of 60% community emissions reduction by 2030.

Policy and advocacy action description	Time frame	Climate Action Plan linkage
1.15 Develop a natural gas transition plan for Council buildings with a focus on high emission sites including aquatic centres (subject to initial feasibility and analysis).	21/22	This supports target of a 50% reduction in the number of Council buildings using gas by 2030.



## Biodiversity and trees

Corporate action description	Time frame	Climate Action Plan linkage
2.1 Develop a plan to increase tree canopy and biodiversity plantings over a two hectare area of the Freeway Golf Course and begin implementation of that plan.	21/22 22/23	This aligns with action 2.3 and supports the target for canopy cover in Boroondara to increase from 28% to 30%.
2.2 Increase the area managed for biodiversity by one hectare a year and continue maintain existing area (currently 51 hectares).	21/22 22/23	This aligns with action 2.1 and supports the target to have 61 hectares of land managed for biodiversity by 2030 (compared the current 51 ha).
2.3 Undertake annual street tree planting and renewal of 1000 trees per year.	21/22 22/23	This aligns with action 2.3 and supports the target to increase the number of street trees to 80,000 by 2030 (compared to the current 66,000).
2.4 Undertake a review of mowing frequencies to align with good turf practices, improved turf health and reduced resource use and increased carbon sequestration. Aim to decrease mowing by approximately 40%.	21/22	This action supports the target of 90% Council actual emission reduction by 2030.
2.5 Design and rebuild Maranoa Botanic Garden office space to include an environmental education facility (will be completed 2023/24).	21/22 22/23	This action supports the target to have 3,000 annual participants in sustainability workshops/ education opportunities.

Partnership action description	Time frame	Climate Action Plan linkage
2.6 Provide increased support for community groups working in biodiversity areas.	21/22 22/23	This aligns with action 2.2.
2.7 Deliver the Backyard Biodiversity Project annually to encourage and support residents to create indigenous habitat gardens.	21/22 22/23	This aligns with action 2.5 and supports the target for residents and schools to plant 50,000 new indigenous plants including 10,000 trees by 2030.
2.8 Develop a self-guided walking tour for Maranoa Botanic Gardens.	22/23	This action supports the target to have 3,000 annual participants in sustainability workshops/ education opportunities.
2.9 Provide 5,000 indigenous tube stock to schools, community groups and residents.	21/22 22/23	This aligns with action 2.4 and supports the target for residents and schools to plant 50,000 new indigenous plants including 10,000 trees by 2030.
2.10 Develop and deliver a weed swap initiative that allows residents to access free indigenous plants in return for removing environmental weeds from their garden.	21/22	This aligns with action 2.4 and supports the target for residents and schools to plant 50,000 new indigenous plants including 10,000 trees by 2030.

Adaptation action description	Time frame	Climate Action Plan linkage
2.11 Undertake a comprehensive audit of Council's tree population, including canopy cover, identification of planting opportunities, and assessment of tree health. This information is essential for future renewal and planting, and the development of an effective Urban Greening Strategy for Boroondara.	21/22 22/23	This aligns with action 2.11 and supports the target for canopy cover in Boroondara to increase from 28% to 30%.
2.12 Develop an Urban Greening Strategy for Boroondara.	22/23	This aligns with action 2.11 and supports the target for canopy cover in Boroondara to increase from 28% to 30%.
2.13 Establish tree selection criteria for new and replacement tree planting based on environmental performance, site suitability and adaptation to climate change.	21/22	This aligns with action 2.6 and supports the target for canopy cover in Boroondara to increase from 28% to 30%.
2.14 Review and promote the Naturestrip Guidelines to facilitate use of these spaces to enhance biodiversity.	21/22	This aligns with action 2.10 and supports the target for canopy cover in Boroondara to increase from 28% to 30%.
2.15 Expand our log hollow habitat enhancement for sugar gliders program to include the installation and monitoring of log hollows for hollow dependent birds.	21/22 22/23	This aligns with action 2.7 to deliver a program of habitat restoration and install nest boxes.

Policy and advocacy action description	Time frame	Climate Action Plan linkage
2.16 Engage a Landscape Compliance Officer to audit planting required on private property as per conditions of planning permits.	21/22 22/23	This aligns with action 2.14 and supports the target for canopy cover in Boroondara to increase from 28% to 30%.



## Water and waterways

Corporate action description	Time frame	Climate Action Plan linkage
3.1 Develop a new Integrated Water Management (IWM) infrastructure program: a prioritised plan to develop and implement new IWM projects (stormwater treatment, harvesting and reuse, litter management).	22/23	This aligns with action 3.3 and supports the target that Council harvests 65 ML of alternative water per annum.
3.2 Construct Councils next priority Water Harvesting Project – nominally at Macleay Park subject to community consultation in 2021/22.	22/23	This aligns with actions 3.2 and 3.7 and supports the target that Council harvests 65 ML of alternative water per annum.
3.3 Conduct an annual program of water efficiency retrofits.	Ongoing	This action will improve water efficiency across Council buildings.

Policy and advocacy action description	Time frame	Climate Action Plan linkage
3.4 Develop a program of winter irrigation of parks and open space using surplus water from our current and future raingardens and water harvesting facilities.	21/22 22/23	This aligns with action 3.13.
3.5 Develop a cleaner building site program, targeting sediment runoff from development sites, and an engagement and enforcement program.	22/23	This aligns with actions 3.6 and 3.12 and will prevent sand, soil, cement and other building materials from reaching waterways, resulting in a healthier environment.



## Transport

Corporate action description	Time frame	Climate Action Plan linkage
4.1 Conduct electric vehicle charging feasibility analysis at Council's Camberwell offices and Kew and Riversdale depots.	21/22	This aligns with actions 4.1 and 4.24 and supports the target that Council fleet is 90% electric (or alternative low emissions option) by 2030.
4.2 Install fast charging stations at two community locations.	21/22	This aligns with action 4.7 and supports the target that there is access to EV charging within 2 km of all activity centres by 2030.
4.3 Develop a fleet transition plan for the transition of Council's and contractor operations fleets to EV.	21/22 22/23	This aligns with action 4.24 and supports the target that Council fleet is 90% electric (or alternative low emissions option) by 2030.
4.4 Incorporate use of commercial and/or operational EVs into Council's fleet (or contracted waste services).	21/22	This aligns with action 4.1 and supports the target that Council fleet is 90% electric (or alternative low emissions option) by 2030.
4.5 Develop an EV charging plan for Boroondara to support uptake of EV use in Boroondara particularly for: <ul style="list-style-type: none"> <li>residents unable to access off street parking</li> <li>residents in multi-unit development</li> <li>visitors to activity centres.</li> </ul>	22/23	This aligns with action 4.7 and supports the target that there is access to EV charging within 2km of all activity centres by 2030).
4.6 Complete feasibility study on connecting the off-road cycling network through new links (on and off road) including improved crossing facilities on main and local roads (e.g. Box Hill to Hawthorn Trail, Back Creek Bridge investigation and design).	21/22	This aligns with action 4.9 and supports the target of 60% community emissions reduction by 2030.

Policy and advocacy action description	Time frame	Climate Action Plan linkage
4.7 Release a bicycle strategy to set a framework to advance the cycling infrastructure and mode share in the Boroondara over the next 10 years.	21/22	This aligns with action 4.16 and supports the target of 60% community emissions reduction by 2030.
4.8 Develop a policy position about EV and e-bike charging infrastructure in all Council, State and Federal projects in Boroondara.	21/22	This action supports the target of 60% community emissions reduction by 2030.
4.9 Review Council's Car Share Policy and Procedures to identify options to support take up of EV and low emission vehicles by the Boroondara community.	22/23	This aligns with action 4.21 and supports the target of 60% community emissions reduction by 2030.



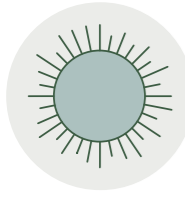
## Circular economy (waste)

Corporate action description	Time frame	Climate Action Plan linkage
5.1 Continue to implement the FOGO program and identify opportunities to expand the service.	21/22 22/23	This aligns with action 5.5 and supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.2 When tendering for kerbside recycling collection and processing contract, seek options for the supply of EV as part of the service fleet.	21/22	This aligns with action 4.1 and supports the target that Council fleet is 90% electric (or alternative low emissions option) by 2030.
5.3 Review Council's public place waste and recycling infrastructure to identify efficiencies and gaps in service delivery. Implement recommendations from review.	21/22 22/23	This action supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.4 Monitor the market and seek opportunities to continue to expand the use of recycled materials in asphalt roads and path projects (currently approximately 20% recycled asphalt material is used in new asphalt projects).	Ongoing	This aligns with action 5.2 and will reduce the amount of virgin materials required in our road projects.
5.5 Review and deliver additional diversion through hard waste collection service improvements.	22/23	This aligns with action 5.9 and supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.6 Implement standard recycling bin materials acceptance list (subject to release by State Government).	22/23	This action supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.7 Participate in an Australian first recycled glass sand trial to determine if it is a suitable growing medium for natural turf.	21/22	This is aligned with action 5.2.
5.8 Develop kerbside recycling/FOGO contamination management program.	21/22	This action supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).

Partnership action description	Time frame	Climate Action Plan linkage
5.9 Provide additional community support and advice through a program of circular economy education and initiatives.	22/23	This aligns with action 5.6 and supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.10 Deliver a Plastic Free Pilot Program in Camberwell to support approx. 15 hospitality traders to reduce and eliminate appropriate single use plastics.	21/22	This is aligned with action 5.7 and supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.11 Develop and trial a modern cloth nappies education program.	21/22	This action supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).

Policy and advocacy action description	Time frame	Climate Action Plan linkage
5.12 Develop a Circular Economy Strategy for Boroondara to replace the current Waste Minimisation and Recycling Strategy.	22/23	This aligns with action 5.10 and supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.13 Develop Corporate Green Event and Single Use Plastic Minimisation Policy.	22/23	This aligns with action 5.3 and supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.14 Advocate for Container Deposit Scheme network operator to establish Container Deposit Scheme drop off network locations in Boroondara.	22/23	This action supports the target of 80% diversion of waste from landfill by 2030 (currently 69%).
5.15 Participate in the submission process for the National Construction Code 2025.	22/23	This aligns with action 5.11 that supports the target of 60% community emissions reduction by 2030.





## Overarching

Corporate action description	Time frame	Climate Action Plan linkage
6.1 Update Council's Sustainable Council Building Policy.	21/22	This aligns with actions 1.1 and 3.1 and supports target of 90% Council actual emission reduction by 2030. The updated policy will enable progressive improvement to the environmental sustainability performance of Council buildings.
6.2 Engage an officer to increase support for community sustainability education and initiatives.	21/22 22/23	This aligns with actions 1.12, 2.5, 3.4, 4.6, 5.6, 6.11 and 6.15 and supports the target to have 3,000 participants each year in sustainability workshops or education opportunities.
6.3 Develop and implement a Climate Action Plan community engagement strategy.	21/22	This action supports the target of 60% community emissions reduction by 2030.
6.4 Promote and provide updates on performance in delivering the Climate Action Plan.	Ongoing	This action will communicate our progress to the community.
6.5 Report annually on Council's Climate Action Plan activities.	Ongoing	This aligns with action 6.1 and will communicate our progress to the community.
6.6 Update Council's staff induction process to include climate change.	21/22	This aligns with action 6.2 and will ensure new staff are aware of climate change and Councils commitment to action.

Partnership action description	Time frame	Climate Action Plan linkage
6.7 Expand on the Living for Our Future workshop program, covering a diverse range of sustainability topics (circular economy, energy, electric vehicles, water, biodiversity, climate change).	21/22 22/23	This aligns with actions 6.11, 6.12, 1.12, 2.5, 3.4, 4.6 and 5.6 and supports the target to have 3,000 annual participants in sustainability workshops or education opportunities.
6.8 Develop and roll out a School's sustainability engagement program.	22/23	This aligns with action 6.15 and supports target to have 3,000 annual participants in sustainability workshops or education opportunities.

6.9 Increase funding for climate action grants as part of Council's grant program.	22/23	This aligns with action 6.3 and supports target of 60% community emissions reduction by 2030.
6.10 Provide support for Environmentally Sustainable Development (ESD) in private development through a program of advice and support.	21/22 22/23	This aligns with action 1.11 and supports the target of 60% community emissions reduction by 2030.
6.11 Hold a Sustainable Living Festival to engage with the community.	21/22	This aligns with action 6.11 and supports the target to have 3000 annual participants in sustainability workshops/ education opportunities.
6.12 Support greater sustainability measures through the planning permit assessment process through the recruitment of an Environmentally Sustainable Design (ESD) Officer (EFT 0.4) to implement ESD tools for the assessment of planning applications and contribute to policy development.	21/22	This aligns with action 6.13 and supports the target of 60% community emissions reduction by 2030.

Policy and advocacy action description	Time frame	Climate Action Plan linkage
6.13 Develop a Litter and Pollution Reduction Plan for Boroondara including engagement activities.	22/23	This aligns with action 6.20.
6.14 Collaborate on a joint research project with twenty-seven other Victorian councils and the Council Alliance for a Sustainable Built Environment (CASBE) that aims to elevate Environmentally Sustainable Development targets for new development. Consider a planning scheme amendment to implement the planning policy developed as part of the CASBE joint research project.	21/22 22/23	This aligns with action 6.23 and supports the target of 60% community emissions reduction by 2030.
6.15 Update Council's Procurement Policy to have a greater emphasis on sustainability.	21/22	This aligns with action 6.19 and will ensure consistency in sustainability criteria for Council purchases.
6.16 Provide a submission to the State Government with proposed Environmentally Sustainable Development standards for inclusion in Victorian Planning Schemes.	21/22	This aligns with action 6.23 and supports the target of 60% community emissions reduction by 2030.

# Complementary activities

In addition to the above actions grouped by theme, we will continue to undertake complementary activities that support the broad goals and visions of the Climate Action Plan. Examples of complementary activities being undertaken by Council we will continue to undertake can be found in the table below.

Activities	Timeframe
Continue to participate in the Eastern Alliance for Greenhouse Action.	Ongoing
Maintain our Emergency Management Plan that considers likely impacts of climate change.	Ongoing
Pursue opportunities to use smart technologies and IOT (Internet of Things) to achieve greater environmental sustainability.	Ongoing
Continue to strengthen Council's emergency management preparedness through maintaining and building on existing relationships with external emergency management and response agencies and further enhancing the resilience of our community through community engagement initiatives.	Ongoing
Progressively increase the Environmentally Sustainable Design (ESD), including energy efficiency and renewable energy generation, at Council buildings via Council's renewal program in accordance with Council's Sustainable Council Building Policy.	21/22
Expand monitoring and detection programs to identify and repair leaks and water use inefficiencies.	Ongoing
Conduct annual inventory of Council's water use to track the success of our actions and inform future priority actions.	Ongoing
Review how we manage the entire tree lifecycle.	21/22 22/23
Collaborate with Melbourne Water and other local Councils on a Platypus Management Plan.	21/22


Continue to deliver and expand our biodiversity citizen science opportunities.	Ongoing
Develop a plan for the Boroondara section of the Gardiners Creek Corridor and partner with other stakeholders to deliver improvements.	21/22
Continue to facilitate the Teacher Environment Network in collaboration with City of Monash.	Ongoing
Promote and showcase businesses demonstrating leadership to become more environmentally sustainable - via Council's website, social media channels.	21/22
Convene a Local Government Circular Economy Network for council officers across Victoria for the purpose of sharing ideas, information and experiences in the circular economy space.	21/22 22/23
Incorporate environmentally sustainable initiatives into placemaking projects.	Ongoing
Continue to participate in the Metropolitan Waste and Resource Recovery Group South Eastern Alternative Waste Technology project.	Ongoing
Support improved off-road shared or separated bicycle and pedestrian infrastructure (Walmer St bridge, wayfinding strategy, pedestrian priority and accessibility on shared paths).	21/22 22/23
Advocate for improvements to tram stops and other public transport interchanges as part of the Glenferrie Road streetscape and station laneways upgrade.	Ongoing
Pursue opportunities to support community uptake of renewable energy or energy efficiency through Environmental Upgrade Agreements (EUAs) or alternative finance mechanisms.	21/22 22/23



For more information on the Climate Action Plan:

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