7.10 Climate Action Plan - approve draft for consultation

Abstract

This report presents the Draft Climate Action Plan (refer attachment 1) for endorsement to release for community consultation. The Draft Climate Action Plan has been developed following significant engagement with the Boroondara community who provided strong feedback on the importance of the Climate Action through the consultation process for both this plan and the refresh of the Boroondara Community Plan. There is general recognition that our climate is changing and that Council and the community have the capacity to respond to this. The Plan sets targets for both Council operations and for the whole of Boroondara to reduce emissions. The Plan also responds to the relationship between climate change and Council's other sustainability priorities. A range of actions are proposed which will enable Council and the community to progress towards these targets.

Officers' recommendation

That Council:

- 1. Endorse the Draft Climate Action Plan as at **Attachment 1** for community consultation.
- 2. Receive a report detailing submissions and any proposed amendments to the Draft Climate Action Plan and a supporting Implementation Plan will be presented at a Meeting of Council to be held Monday 27 September 2021.
- 3. Appoint Councillor as Boroondara's representative on the Eastern Alliance for Greenhouse Action Executive Committee.

Responsible director: Daniel Freer, Director Places and Spaces

1. Purpose

The purpose of this report is to present the Draft Climate Action Plan seeking endorsement for the plan to be released for community consultation. Consultation undertaken to date for both this plan and the Boroondara Community Plan has highlighted the importance of climate action for the community. Adoption of the plan will respond to community feedback to make addressing climate change a clear priority for Council. The Plan includes actions and targets that will allow the organisation to deliver the plan successfully in partnership with the community.

2. Policy implications and relevance to community plan and council plan

The Boroondara Community Plan (BCP) 2017-27 articulates Council's overarching commitment to a vibrant and inclusive community. The Community Plan sets the long-term strategic directions for Council and informs the Council Plan, annual commitments and strategic indicators, and Council strategies, plans, policies and actions.

Development of a Climate Action Plan with the advice of the Climate Action Plan Advisory Group, supports the vision of the BCP for 'a vibrant and inclusive city, meeting the needs and aspirations of its community, particularly in relation to the following strategic objectives and relevant strategies:

Strategic Objective 2: Inviting and well-utilised community parks and green spaces

Strategy 2.1 - Sustainably design, manage and utilise parks and green spaces to foster a connected and healthy community for all ages and abilities.

Strategy 2.7 - Manage, renew and preserve the green canopy in our open spaces and playgrounds for the enjoyment of future generations.

Strategic Objective 3: Our natural environment is healthy and sustainable for future generations

Strategy 3.1 - Build community capacity to live sustainably through efficient use of energy and water, resource recovery and renewable energy generation.

Strategy 3.2 - Reduce the amount of waste generated and disposed of in landfill through initiatives to prevent, reduce and reuse waste.

Strategy 3.5 - Reduce the environmental impact of Council facilities and assets through continued greenhouse gas saving initiatives and stormwater treatment and re-use.

Strategy 3.7 - Lead our community through advocacy and action to mitigate and adapt to impacts of climate change to minimise impacts on community health and wellbeing, our natural environment and facilities and services.

Strategic Objective 4: Protect the heritage and respect the character of the City to maintain amenity and liveability whilst recognising the need for appropriate, well-designed development for future generations

Strategy 4.5 - Introduce environmentally sustainable design policies and principles into the Boroondara Planning Scheme to facilitate sustainable development.

Strategic Objective 5: Travel options that are connected, safe, accessible, environmentally sustainable and well-designed.

Strategy 5.4 - Promote and increase active and environmentally sustainable travel options, including cycling and walking and access to public transport.

There are also a number of other Council strategies, policies and initatives which relate to Climate including:

- o Integrated Water Management Strategy (IWMS) 2014-2024
- Waste Minimisation and Recycling Strategy (WMRS) 2017
- Urban Biodiversity Strategy (UBS) 2013-2023
- Integrated Transport Strategy (ITS) 2006
- Shade Policy 2017-2027 and Action Plan
- Living For Our Future Program
- Boroondara Tree Strategy 2017-2027 and Action Plan
- Sustainable Council Buildings Policy 2016
- Boroondara Bicycle Strategy 2008
- Car Share Policy and Care Share Procedures 2013
- Boroondara Health and Wellbeing Plan

3. Background

At a Special Council Meeting on 16 December 2019, Council resolved:

1. To note the wide range of policies, strategies, action plans and initiatives either being undertaken or planned in response to Council's commitment to the environment and combatting the impacts of climate change as set out below.

2. Noting the Our Low Carbon Future Strategy 2009 - 2020 which has been a key driver of Council's response to climate change is due to expire in 2020, Council officers are directed to bring forward a Climate Action Plan to replace the current strategy prior to finalisation of the 2020-2021 budget enabling consideration of new initiatives for the following financial year and beyond.

3. That the Climate Action Plan be drafted as an umbrella document focused on initiatives within Boroondara to bring together the wide range of existing and proposed commitments [included below] for Council's consideration.

4. That the community be consulted in relation to the Climate Action Plan prior to its final adoption by Council.

At the Special Meeting of Council on 23 March 2020 Council resolved that:

1. Continue development of the draft Climate Action Plan in accordance with the Notice of Motion No 49, and the proposed approach and consultation and engagement plan outlined in this paper.

2. Authorise officers to amend the proposed approach and consultation and engagement plan outlined in this paper in accordance with the latest Federal and Victorian Government and Council advice, as it evolves in relation to COVID-19 and to note the timing for delivery of the Climate Action Plan will be subject to these amendments.

3. Refer the capital budget bid for the additional \$985,000 to fund a range of new energy saving projects and initiatives that could be delivered in the 2020/2021 financial year to the 2020/2021 budget process.

Council also established a Climate Action Plan Advisory Group with a membership of six Councillors which commenced meeting in January 2021. This advisory group has met regularly and provided ongoing advice and feedback through its discussions on the development of the Draft Plan.

The development of a Draft Climate Action Plan has been based on the consultation undertaken over the past year, benchmarking against other Local Government Authority programs and officer knowledge of Council's existing programs and activities.

The Draft Climate Action Plan considers emissions and other sustainability issues beyond those currently included in Council's greenhouse gas inventory. Council's inventory does not include emissions associated with waste or construction. Emissions from Council operations equate to 1% of the emissions produced in Boroondara. The Draft Climate Action Plan considers how Council can influence reduction of those emissions it is not directly responsible for.

Community Consultation about the Climate Action Plan

In August and September 2020, officers undertook community consultation as the first step towards developing the Draft Plan. 1567 survey responses were received including 502 from a demographically representative randomly selected cohort.

This survey revealed 90% of respondents supported the development of the Climate Action Plan with only 5% opposed. When asked to rate the importance of different aspects of sustainability for the climate action plan the following was revealed:

- Energy efficiency and renewable energy 89 per cent said very/fairly important
- Sustainable water use and healthy waterways 89 per cent said very/fairly important
- Waste management and recycling 83 per cent said very/fairly important
- Sustainable community transport 75 per cent said very/fairly important
- Protecting and enhancing biodiversity 80 per cent said very/fairly important

Consultation also identified strong support for actions such as Council providing education, support and resources to support the Boroondara community in reducing emissions and living more sustainably. This support for action was confirmed through phase 2 consultation which engaged with more than 500 residents.

A detailed report about this consultation has been published on Council's website. This report will be progressively updated with details of subsequent consultation about the Draft Plan.

Boroondara Community Plan Refresh

Throughout the community workshops and consultation undertaken to date in refreshing the Boroondara Community Plan, environmental sustainability and climate related issues have presented as primary themes. In December and January, more than 4,700 people told us what's most important to them during Stage 1 of consultation to refresh the Boroondara Community Plan. In March and April, over 160 people, representative of Boroondara's diverse community, participated in the Boroondara Conversations workshops to deliberate on Stage 1 findings and key community issues.

These discussions and themes have helped guide the development of the Draft Climate Action Plan.

4. Outline of key issues/options

Framework of the Climate Action Plan

Officers have developed a Draft Climate Action Plan, Attachment 1, intended to provide a framework for Council's response to climate change and other sustainability issues over the next decade. The Draft Plan outlines Council's role and vision and includes targets and actions.

The Draft Plan presents a holistic response to the challenges of climate change. Greenhouse gas emissions are identified as a significant issue but not as the sole focus for the Plan. Climate change has a strong relationship to other sustainability themes which continue to be a focus for Council. Additionally, the Draft Plan has been developed to consider:

- Council's sphere of influence and what Council can reasonably control.
- Both Climate Change Mitigation (reduction in emissions) and Climate Change Adaptation (adapting to unavoidable climate change).
- Opportunities and challenges that are specific to Boroondara such as our extensive canopy cover, our open space and our FOGO program.
- Community feedback about the structure of the Plan.

The development of the plan also considers that Council emissions have reduced 80% since 2007/08 (baseline reporting year). Of the remaining 20% approximately:

- 8% of remaining emissions are from fleet (Based on baseline emissions).
- 8% of remaining emissions are from natural gas.
- 4% of remaining emissions are from electricity at small sites.

Many of Council's best least cost of emission abatement opportunities are:

- Further building and public lighting upgrades.
- Further Solar PV installation.
- Energy efficiency upgrades to reduce electricity demand.

The majority of energy use reduction opportuntiies are at sites covered by the green electricity Power Purchase Agreement adopted by Council in 2020.

Electricity savings at these sites have a financial and environmental benefit but they won't count towards an emissions target. The Plan supports actions that both reduce net emissions and overall energy use.

Council's implementation and expansion of FOGO waste service will continue to yeild environmental benefits and contribute to Council's environmental measures. Auditing and certification of this program is being finalised in the 2021/22 financial year.

The Draft Climate Action Plan is not intended to replace all existing sustainability strategies and plans. It is intended to support the delivery of the Boroondara Community Plan and support the development and update of theme specific strategic documents.

Targets

The Draft Climate Action Plan includes targets for Council as a corporate operating business and for the municipality as a whole. Targets have been set for emissions reductions and for supporting environmental actions that will also have a postive impact on our climate, our environment and the Boroondara community.

The community targets reflect aspirational emissions reductions required to avoid the worst impacts of climate change and may only be achievable if other levels of government are committed to the same path. Unlike Federal or State Governments, Council does not have anywhere near the remit or breadth legislative powers to directly influence the level of emissions in the broader community.

Community targets are described as Aspirational Targets to recognise that they cannot be achieved by Council alone and require productive partnerships with community members, businesses and institutions.

The targets are summarised in the tables below.

Council Corporate Targets

Council is net carbon neutral from 2022 Actual emissions from council operations are reduced by 90% compared with 2007/2008 by 2030

Supporting Measures by 2030

- 50 hectares of land is managed for biodiversity
- Canopy Cover is increased on Council Managed Land
- Council to install 1 MW additional solar PV
- 50% reduction in number of Council buildings using gas
- Council harvests 80 ML of alternative water per annum
- Council passenger fleet is 90% electric (or alternative low emissions option)

Aspirational Community Targets Boroondara community emissions are reduced 30% by 2030 compared with 2020 Boroondara is net carbon neutral by 2035 Boroondara community actual emissions are reduced 100% by 2040

Supporting Measures by 2030

- Canopy cover in Boroondara increased from 28% to 30%
- 10,000 extra trees planted
- 50,000 kW additional solar PV (currently 27,000 kW)
- Triple number of buildings with solar energy systems from 6000
- Access to EV charging within 2km of all activity centres
- Target 130 litres of water used per person per day
- 3000 annual participants in sustainability workshops/education opportunities

Achieving the Primary Council Target

A Council target is currently set to achieve carbon neutrality in 2022. This target is deffered until 2022 to allow time for Council to determine the best mechanism to achieve the target. Priority will be given to approaches including offsets that are robust, measurable, cost effective and maximise local benefits.

Vision Statement and Roles for Council for the Climate Action Plan

A vision statement has been developed to clearly articulate Council's position and also to provide reference language for Council to utilise in advocacy work. It also serves to highlight the focus on climate and to indicate that it is a priority for action for Council. Council's role in delivering the Plan is also described.

Actions

To achieve the targets, actions are required across a broad range of areas. Given the proposed ten-year timeframe for the plan and the need to further develop methodologies to meet the proposed targets, the proposed actions are broad. These are summarised at a high level in the table within the Draft Plan. These actions will be defined in more detailed in a supporting two-year implementation plan and in implementation plans for other related strategies. The first implementation plan for the CAP will align with Council's adopted budget for 2021-22 and the broad actions identified in the Plan. The Implementation Plan will be presented to Council at a future Council meeting.

Eastern Alliance for Greenhouse Action (EAGA)

Boroondara is a member of EAGA which brings together eastern suburb councils in Melbourne who work together to deliver programs to reduce greenhouse gas emissions. EAGA has an Executive Committee to which most Councils have appointed a Councillor, Boroondara has been represented by an Officer up until now but has the option to appoint a Councillor at any time.

5. Consultation/communication

Development of the Draft Climate Action Plan has been based on extensive community consultation.

The first phase of the consultation was conducted in August and September 2020 prior to the commencement of the Local Government caretaker period.

Phase 2 of community engagement was conducted in March and April 2021. This consultation stage made use of a brief survey and public online forums and sought to 'check in with our community' about the results of the first stage of consultation.

The Draft Climate Action Plan will be the subject of further community consultation during July and August 2021.

6. Financial and resource implications

Consistent with other long term strategic plans such as the Boroondara Community Plan (BCP), it is not viable to accurately account for all financial impacts over the ten-year life of this plan. Also consistent with plans such as the BCP, there will be ongoing opportunities to consider the financial and other impacts as part of Council's annual budget process. A number of the actions outlined in this plan require further detailed feasibility work prior to Council considering the scale and timing of investment. Furthermore, many of the actions can be delivered within existing budget allocations.

The potential financial implications of actions and targets have been broken down into categories to facilitate consideration.

Greenhouse Gas Offsets

Officers are investigating approaches including offsets that are robust, measurable, cost effective and maximise local benefits. The current market rate greenhouse gas offsets from Australian Revegetation projects is \$16.50 per tonne.

Council Energy Efficiency and Renewable Energy Projects

Funding in the proposed 2021-2022 budget will support energy efficiency audits and the development of specifications to undertake works in future finacial years. Council's Long Term Financial Plan foreshadows \$1M p/a for Climate Action Plan Projects from 2022-2023 onwards. Officers estimate that approximately \$600,000 of this would be invested in energy efficiency and renewable energy at Council's buildings and assets. Projects of these types currently have simple paybacks of 5-10 years on energy savings alone. Where these projects bring forward replacement of aging infrastructure, future expenditure is avoided. These projects are expected to have a positive impact on Council's long term financial position.

Community Engagement and Support Projects

\$250,000 from the \$1M p/a for Climate Action Plan Projects from 2022-2023 onwards is nominally aligned with community engagement and support programs such as Solar Bulk Buy Programs, Community EV charging infrastructure and Climate Change Adaptation Support.

Other Actions

\$150,000 from the \$1M p/a for Climate Action Plan Projects from 2022-2023 onwards is available to be allocated to additional actions supporting the vision and targets.

Tree Planting and Biodiversity

Tree planting has been allocated an additional \$240,000 in the proposed 2021/22 budget and further funding is identified in the foreshadowed expenditure which will enable increased street and park tree planting.

Sustainable Council Buildings, Urban Forest Strategy, Climate Change Adaptation Plan and Procurement Policy

The Plan outlines updates to existing strategies and development of new strategies. Funding in the proposed 2021-2022 budget will support the development of these strategic documents. The financial implications of these strategies will be considered as part of their development and endorsement by Council. In developing the original Sustainable Council Buildings Policy in 2016, an additional cost of approximately 5% for enhanced sustainability was identified, with a simple payback of approximately 5 years, with additional benefits of more comfortable buildings offering a better experience for occupants.

An update to the Procurement Policy that recognises the additional value in purchasing sustainable goods and services is expected to have an impact on Council's Long Term Financial Strategy. The scale of this impact will depend on the parameters included in the updated Policy. In most cases, officers expect that choosing more sustainable products and services will be cost neutral or only have a small incremental impact on project costs.

Transition to Low Emissions fleet

Over the ten-year life of the Climate Action Plan, the Electric Vehicle (EV) market is expected to mature substantially. At 2021, the cost to lease an electric passenger vehicle is higher than an equivalent petrol vehicle but the EV will typically have lower running costs. For passenger vehicles traveling less than 20,000 km per annum petrol is more cost effective. For passenger vehicles travelling over 30,000 km per annum, EVs are more cost effective.

The transition to remote working and online meetings presents an opportunity for Council to reduce the size of its passenger fleet and minimise the financial impacts of bringing forward a shift to low emissions vehicles.

The transition of Council's waste and other larger vehicles will be investigated as part of implementation of this Plan. At 2021 there are only limited operational examples of larger waste vehicles with a current trial of a side load waste collection vehicle underway in South Australia. This technology is in a rapid development phase and will evolve during the life of the plan.

The cost to purchase or lease a large electric vehicle is around three-fold that of the equivalent diesel vehicle. The cost to operate an electric vehicle under typical operating conditions are in the order of one fifth of the equivalent vehicle. Further work is required to develop a business case for the transition of Council's waste and other large fleet but preliminary analysis indicates that this will deliver a net saving to Council over time. The financial case for transition to EV is also expected to improve substantially during the life of the Plan.

Transition from Natural Gas

The transition away from natural gas usage presents the most significant obstacle to reducing Council's greenhouse gas emissions. Council's smaller facilities can generally be taken off gas as part of Council's capital renewal process. Provision of all electric services can be completed within renewal expenditure and provides the ongoing benefit of avoiding service charges for an additional utility.

Council's larger facilities (Aquatic and Leisure Centres and Civic buildings) account for the majority of natural gas use. Industry estimates vary widely about the capital costs, operational costs, suitability (noise emission) and viability of heat pump technology for aquatic centres. Future decisions about transitioning these facilities will be informed by the outcome of work currently underway by other Victorian Local Governments, developments in the industry and the timing of potential opportunities.

Planning

The majority of actions in the Planning and Building space relate to advocacy and Council's internal processes.

The 2021-22 Draft Council Budget includes \$60,500 for an Environmentally Sustainable Design Policy and a dedicated Environmental Sustainable Design Officer. This allocation will support the assessment of planning application to facilitate sustainable design outcomes.

Major Road Streetlighting

A proposed action to partner with the Victorian Government to upgrade major road steetlighting is included. Metropolitan local governments have previously advocated to the Victorian Government to co-fund the upgrade of these lights from legacy technologies to LED. A feasibility study completed in 2018 identified total project costs of \$2.69M for Council and a payback of 7.6 years. This analysis assumes the Victorian Government contributes funding consistent with their share of proportional responsibility. This work is scalable across different lighting categories. An update to the business case would be completed prior to committing funding as part of a future budget process.

7. Governance issues

The implications of this report have been assessed in accordance with the requirements of the Victorian Charter of Human Rights and Responsibilities.

The officers responsible for this report have no direct or indirect interests requiring disclosure.

8. Social and environmental issues

The Climate Action Plan will provide a framework for Council to plan and deliver actions to reduce harmful emissions from Council's operations, facilitate the reduction of emmisions by the community and preserve and protect our natural assets to meet the challenges of a changing climate. The Plan will help guide Council's climate related actions into the next decade, and deliver wide ranging social and environmental benefits for our community.

9. Evaluation and review

Council will provide an annual report on its delivery of actions through the Climate Action Plan. A two-year Implementation Plan will be developed to support the delivery of the Climate Action Plan, this will be reviewed and updated every two years. The Plan will have a life of 10 years however will be fully reviewed and updated after five years.

10. Conclusion

The Draft Climate Action Plan has been developed in response to Council's resolutions in December 2019 and March 2020 and its development has been strongly supported by the community through consultation results. Endorsement for release for public consultation in June 2021 will enable the plan to be refined and finalised in preparation for adoption by Council in September 2021.

Manager: David Shepard, Manager Environmental Sustainability & Open Spaces

Report officer: Mathew Dixon, Coordinator Environmental Sustainability









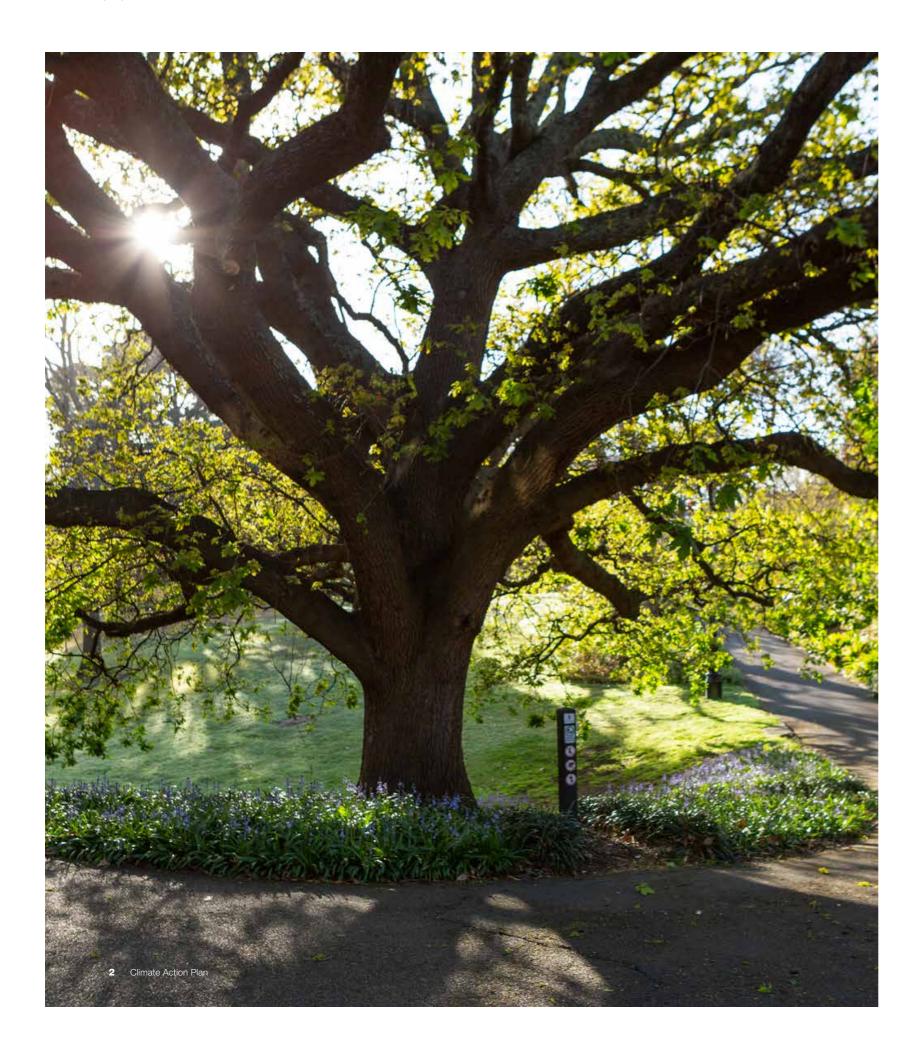




Climate Action Plan

Our plan to deliver what is important to our community to further reduce our city's environmental footprint.





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Our plan

We have developed Boroondara's Climate Action Plan to deliver what is important to our community and in recognition of the real and increasing threat to our environment, to our health and wellbeing, and to the quality of the lives of current and future generations as the result of our changing climate.

In 2017, Council produced the Boroondara Community Plan, responding to the needs and aspirations of our community. It reflects major themes from the associated community consultation, including supporting sustainability and our natural environment. Since then, we have heard from our community more and more often that environmental sustainability, specifically climate change, is an important issue for Boroondara.

During 2020 and 2021, we consulted our community about refreshing the Boroondara Community Plan and about this Climate Action Plan. The feedback showed enthusiastic support for this Plan and for Council to prioritise action for our environment.

A successful response to climate change requires a holistic approach, new ways of thinking and shifts in how we live, work and play. It requires action by individuals, businesses and all levels of government.

This Plan outlines how Council will respond to this challenge and how we will work with our community and other levels of government to do the same.

At Council, we have already made big improvements, but we can build on these as we continue to adapt our own practices. As a local government, our role extends beyond our own buildings,

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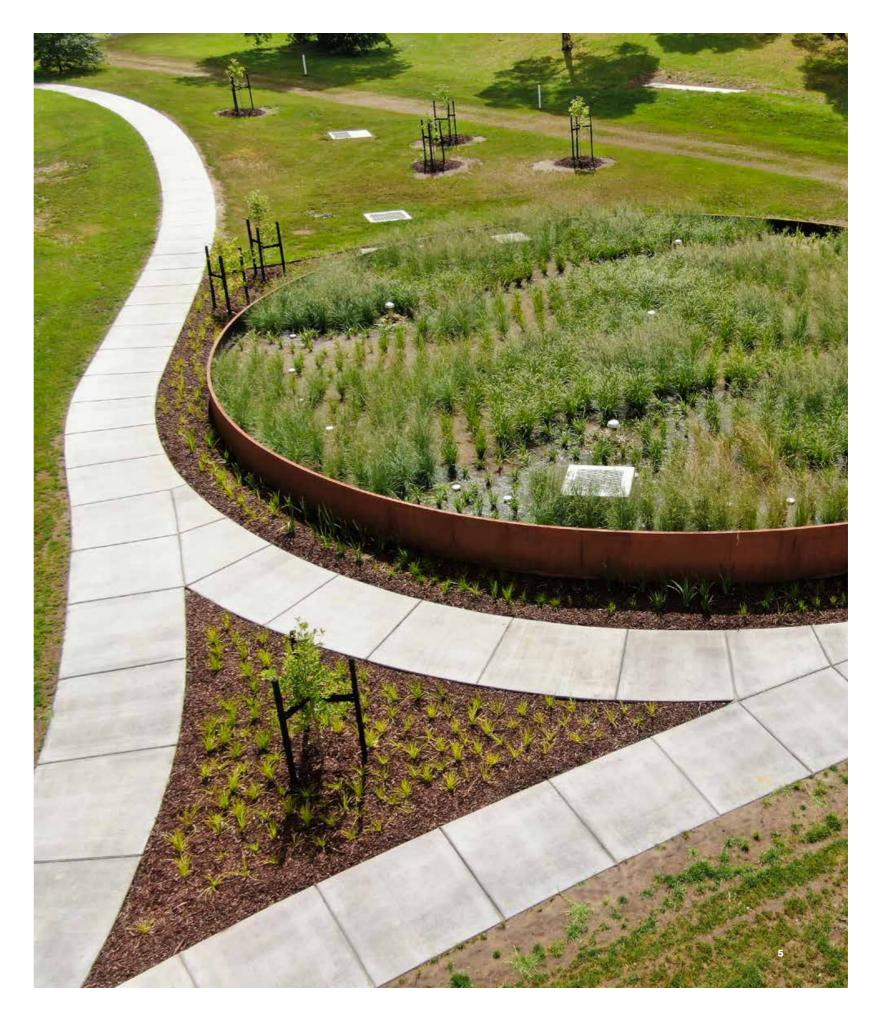
assets and operations to serve and support our community to mitigate threats, adapt and become more resilient.

We acknowledge the important global movement towards zero net emissions and that the City of Boroondara should be part of this movement.

Climate change is about more than just greenhouse gas emissions and this is reflected in this Plan. Switching to renewable electricity, as Council already has, is an important step but is not enough to avoid further changes to our climate. Even if all countries substantially reduce emissions now, it is too late to avoid some long-term changes to our environment. We must prepare to adapt to a warmer, more variable climate with more extreme weather events.

This will impact both on our people and our biodiversity. It will affect how we travel, how we use water and how we live our lives. This Climate Action Plan will support the delivery of the Boroondara Community Plan and it will inform all other related strategies and actions, and set Boroondara on a path to a holistic response to these broad challenges.

Delivery of the Climate Action Plan will be reported on an annual basis, and it will be reviewed and updated in five years.



Our vision

Boroondara is a vibrant and thriving city that lives within its means. We set an example through our vision and actions that others aspire to achieve. Our vision is that:

- Council and all those that live, work and play in Boroondara will come together in partnership to achieve our goals.
- Boroondara is a green and leafy city with healthy trees, plants and other thriving biodiversity. Our trees and plants absorb and store carbon dioxide emissions, provide habitat and our canopy provides shade and urban cooling.
- Our homes, businesses, schools and other buildings are efficient and resilient to the extremes of our environment. They make efficient use of renewable energy and they are constructed from sustainable materials.
- We travel using a range of convenient, reliable and healthy options. Walking and cycling provide safe and convenient exercise and transport. We use electric vehicles, powered by renewable energy, and other low emission forms of transport.

- We conserve our valuable drinking water and make use of alternatively harvested water in our efficient buildings, gardens and parks.
- Our environment is clean and unpolluted. The quality of our air and waterways is substantially improved.
- We make efficient use of our valuable resources. We avoid single-use items, and we reuse and repurpose. We recycle into a circular economy and make new things from our recycled resources.
- We are ready to incorporate new and evolving technologies that help us mitigate and adapt to climate change.
- We have a flourishing local economy that provides sustainable goods and services to our community.

Our role

We have an essential role to play in climate action. We can:

- Build on our existing efforts to reduce . greenhouse gas emissions from Council-run buildings and services.
- Continue to lead, facilitate and • support our community to also reduce emissions.
- Act on the growing expectation of our community to take holistic action to reduce the impacts of climate change.
- Support our community to mitigate the threats and outcomes of climate change.
- Keep working towards sustainability and resilience within our organisation and for the broader community.
- Partner with councils, governments, agencies and groups to carry out or create opportunities for actions to reduce emissions.
- Play a role in emergency management where appropriate.

- Promote and provide opportunities to learn about climate change mitigation and adaptation through programs and partnerships.
- Take action to achieve net zero carbon neutrality in Council operations by 2022 and support the community to achieve net zero carbon neutrality by 2035.
- Advocate to other levels of government to take climate action.
- Actively incorporate climate change mitigation and management into any new Boroondara Council strategy and policy.
- Support staff to understand the targets and apply the actions of this plan.
- Prepare to adopt and adapt to new and evolving technology.

28/06/2021

⁶ Climate Action Plan

Our response so far

Strategy

At Council, we have policies and programs that seek to embed environmental sustainability into our operations and services, while also supporting our community to do the same.

The Boroondara Community Plan 2017-2027 (BCP) is Council's overarching strategic document. It guides our decisions and directly informs our annual plans and budgets, as well as all of our strategies, policies and actions.

The BCP has seven priority themes. Theme Three is The Environment and its strategic objective is: Our natural environment is healthy and sustainable for future generations.

Lead our community through advocacy and action to mitigate against and adapt to the impacts of climate change to minimise adverse impacts on community health and wellbeing, our natural environment and facilities and services.

Strategy 3.7 of the Boroondara Community Plan



8 Climate Action Plan Other themes and strategies from the BCP also guide our response to environmental sustainability and climate change.

These include:

- Theme Two: Your Parks and Green Spaces
- Theme Five: Getting Around Boroondara
- Theme Seven: Civic Governance and Leadership

The BCP includes the Boroondara Public Health and Wellbeing Plan (MPHWB). The Victorian Government Climate Change Act 2017 requires that local governments must have regard to the potential impacts of climate change when preparing a MPHWB.

Council has policies and strategies that guide us to meet the objectives of the BCP.

These include:

- Our Low Carbon Future Strategy (2009–2020)
- Boroondara Urban Biodiversity Strategy • (2013-2023)
- Boroondara Integrated Water Management • Strategy (2014-2024)
- Boroondara Waste Minimisation and Recycling • Strategy (2017)
- Boroondara Integrated Transport Strategy (2016)
- Boroondara Tree Strategy (2017-2027) ٠
- Boroondara Sustainable Council Buildings Policy (2016)

The adoption of Council's Our Low Carbon Future – City of Boroondara Strategy (OLCFS) in 2009 set the direction for our climate change mitigation response. The strategy has been supported by three action plans, including the most recent Action Plan Update 2017-2020.

The 2009 strategy had core objectives:

targets

6. Increase local energy security through investment in renewable energy sources.

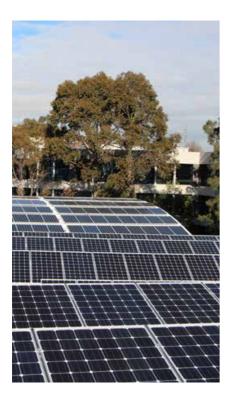
programs and projects.

- 1. Reduce Council's own greenhouse gas emissions
- 2. Reduce aggregate emissions for Australia
- 3. Reduce the impact of increasing energy prices on Council's budget
- 4. Reduce the impact of increasing energy prices on vulnerable sectors of the community
- 5. Support the Australian Government to introduce more ambitious greenhouse gas reduction
- The strategy set us a target to reduce our corporate greenhouse gas emissions by 30 to 40 per cent below 2007/08 levels by 2020, and to support the reduction of community emissions by at least 50,000 tonnes of CO2-e by 2020 through community

Projects

Actions from Our Low Carbon Future strategy focused on addressing key sources of greenhouse gas emissions from our buildings, street lighting and fleet vehicles.

We have made substantial progress in increasing the energy efficiency and low carbon technologies in Council-owned buildings. Significant initiatives and policies that we have delivered include:



- Powering more than 12,000 streetlights and 16 major City of Boroondara buildings with 100 per cent local renewable energy from a Gippsland wind farm until 2030. This accounts for over 85 per cent of Council's total electricity use.
- Upgrading over 7,000 streetlights with more efficient technologies.
- Installed cogeneration at Ashburton Pool and Recreation Centre in 2011 and at Hawthorn Aquatic and Leisure Centre in 2014. This technology uses natural gas to 'co' generate both heat and electricity onsite where and when it is needed.
- Installing solar PV (rooftop solar) on our buildings including our four aquatic centres. By June 2021, we installed, or had committed to, over 1133 kW of Solar PV on all Council office, depot and community buildings.
- Delivering a broad suite of cost-effective energy efficiency upgrades at Council's largest buildings via an Energy Performance Contract (EPC) model as used in the Victorian Government's Efficient Government Building Program. This \$2.5M project is now saving 1700 tonnes of CO2-e per year and delivering annual savings of over \$250,000.
- During 2020-21 alone, Council implemented over \$1M in additional energy-saving initiatives drawing on what we learned from the EPC project.

Other initiatives

We also run other projects and programs that support environmental sustainability within Council and for our whole community. Key examples include:



- for our Future program.
- divert organic waste from landfill.
- Teacher Environment Network

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• The Council Climate Change Risk Assessment (2020)

• The Sustainable Buildings Policy (2016) which ensures that all new or upgraded buildings are environmentally sustainable while still providing high quality spaces for the community. This policy requires that all Council building projects are equivalent to the 5 Star standard set by the Green Building Council of Australia's Design & As Built Tool.

• The launch in May 2020 of the Food Organics Garden Organics Program (FOGO), providing a huge boost to the diversion of organic materials away from landfill. This is one of the most significant changes in municipal waste management since the introduction of kerbside recycling.

Supporting the uptake of behaviours and technology to improve residential energy efficiency through community education and incentives via programs such as our Living

Engaging the Australian Energy Foundation to provide upto-date and impartial energy efficiency and renewable energy advice and one-to-one support for residents and businesses.

Discounts for residents on products such as worm farms and compost bins through our Compost Revolution program to

Supporting schools to embed sustainability in their operations and curriculum via programs such as the

Constructing roads using recycled asphalt. Council uses asphalt containing materials such as recycled soft plastic bags, glass and leftover cartridge toners. We also reuse recovered asphalt from other Council road projects.

Participation in the Eastern Alliance for Greenhouse Action where Boroondara is a member of the alliance of eastern suburb councils in Melbourne, combining to deliver programs to reduce greenhouse gas emissions and provide support for adapting to the impacts of climate change in our region.

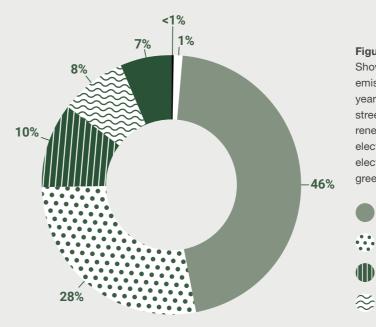
Emissions in Boroondara

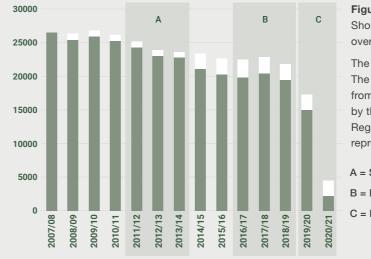
Council corporate emissions

As part of Boroondara's *Our Low Carbon Future Strategy*, we have monitored greenhouse gas emissions since 2007– 2008 across all Council-run buildings and services. In the baseline year these emissions were 26,837 tonnes of CO2-e.

Due to ongoing efforts to reduce our greenhouse gas emissions and environmental footprint, corporate emissions are now below¹ 6000 tonnes CO2-e which represents a reduction of over 80 per cent compared with our baseline year. Though this an excellent effort, a comparison of the municipal emissions and Council's corporate emissions reveals that Council is directly responsible for less than 1 per cent of municipal emissions. For this reason, we have an important role to play in supporting our community to tackle the greenhouse gas emissions of the broader municipality.

We have reduced greenhouse gas emissions from Council-run buildings and services by 80 per cent since FY 2007-08





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Figure one

Shows the breakdown of Council's corporate emissions by source. The 2007/08 baseline year is used for reference. At 2021, streetlighting electricity is 100 per cent renewable and over 90 per cent of building electricity is also renewable. Renewable electricity does not contribute to our greenhouse emissions total.

Scope 3

Taxi and air

Refrigerants

- Buildings: electricity
- •••• Streetlighting: electricity
- (Buildings: Gas
- \approx Vehicles: Fuel

Figure two

Shows Council's corporate emissions over time.

The columns represent actual emissions. The unshaded portion represents emissions from vehicle use which have been offset by the purchase of Australian Biodiversity Regeneration Offsets. The shaded portion represents net emissions after offsetting.

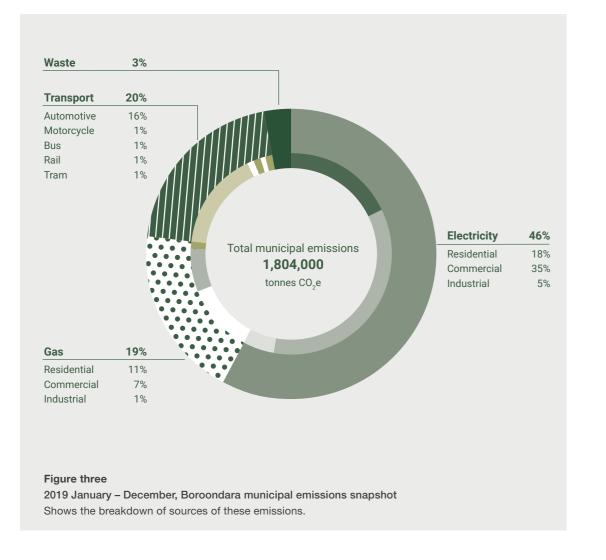
A = Streetlights

- B = Energy Performance Contract
- C = Power Purchase Agreement

¹ Actual emissions for 2020-21 will be calculated prior to final endorsement of this Plan. From 1 July 2020, Council has purchased 100 per cent renewable electricity for the majority of buildings and street lighting. From 1 July 2020 annualised emission are calculated to be 4500 tonnes of CO2-E. This result is partly driven by atypical Council operations in response to the COVID-19 pandemic.

Municipality-wide emissions

The Snapshot² database provides information on a subset of the greenhouse gas emissions for the Boroondara municipality. This includes emissions associated with electricity, natural gas, road transport and some elements of waste management. This data also provides a breakdown of emissions according to sector.



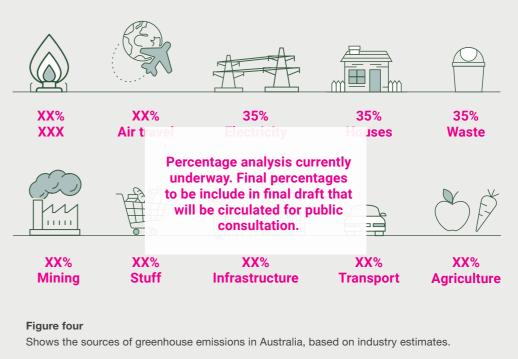
The corporate greenhouse gas emissions inventory and Snapshot data that we have tracked at Council mostly highlight the emissions related to the purchase of energy in the forms of fuel, natural gas and electricity by individuals, businesses and organisations. This provides a useful indicator of our collective environmental impact and is a useful tool to track our progress.

It is important to recognise that our environmental impact is made up of far more than our energy use alone. Decisions we all make every day contribute to our carbon footprint and impact on the environment. These include what we buy and use, how our food is produced, how we dispose of things and the materials used to build our homes, roads and cities.

In order to truly respond to the challenges of climate change, all of these factors should be considered when developing any plan or action to support environmental sustainability. It is also important to consider opportunities that are particularly relevant

to Boroondara. Boroondara is well known for its leafy tree canopy. Our trees and plants provide an important carbon sink, provide shade and urban cooling and are vital habitat for our wildlife. The Plan gives significant consideration to our trees and ways that we can not only protect our existing canopy cover but actually improve on current levels.

Council's recent implementation of our Food Organics Garden Organics Program also has substantial implications for climate change. Diversion of organic material from landfill not only preserves a valuable resource, it also prevents the formation of methane which is a potent greenhouse gas.



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Though we don't have a good estimate of average individual greenhouse gas emissions in Boroondara - as such analysis would be difficult, time consuming and expensive to undertake - we do know that there are many actions that we can take as a Council and as a community to reduce our collective impact and create a sustainable, vibrant future.

² https://snapshotclimate.com.au/explore

Community consultation informing the plan

We undertook consultation with our community about this Climate Action Plan in 2020.

During the first phase of the consultation, we heard from more than 1,500 community members who shared their feedback online, over the phone and in writing. One third of these community members were randomly selected to participate.

In March/April 2021 we did a follow up survey and workshops. This second phase of consultation told us we were mostly on the right track and that action to mitigate the Boroondarawide contribution to climate change is important and necessary, and that our community broadly supports Council to take bold action.

This survey report will be provided as an appendix. It will be amended to capture remaining community consultation outcomes.

During 2021, we undertook consultation on the refresh of the Boroondara Community Plan. Community feedback during this process has been considered and incorporated in the development of this Climate Action Plan. The details of the consultation will be publicised during 2021.

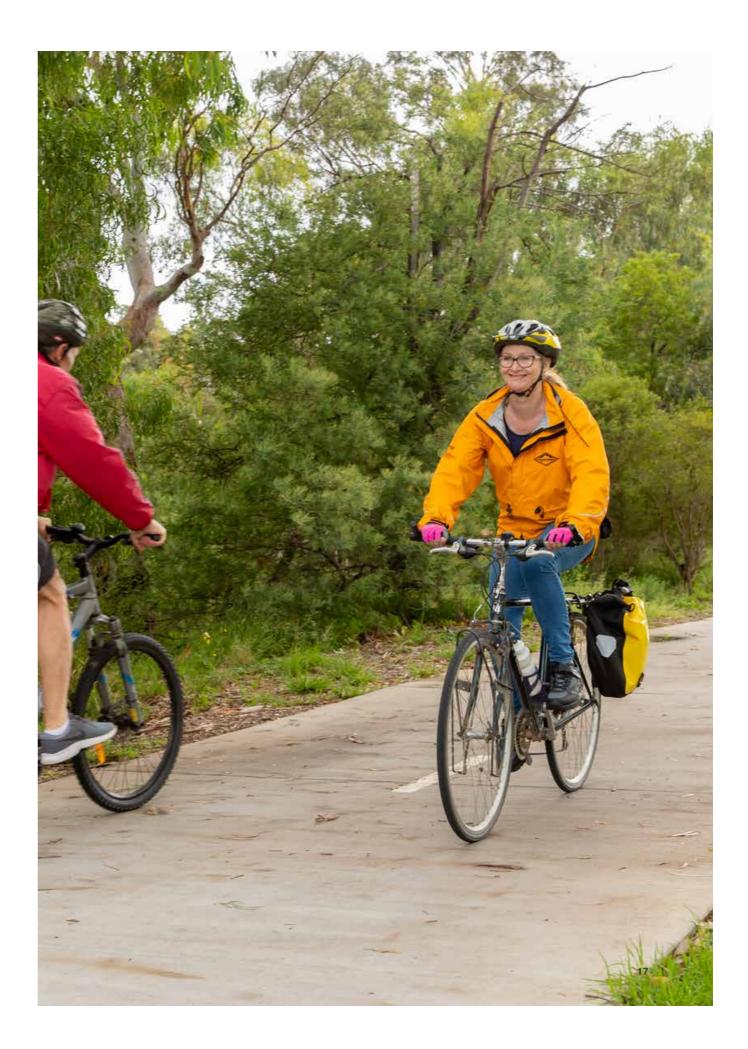
Considerations in developing this plan

This Climate Action Plan seeks to guide the City of Boroondara on the most effective path to reduce emissions and to a more sustainable environment.

In developing this plan, Council has considered:

- Community feedback
- Contributions to greenhouse gas emissions by operations managed by Council
- Contributions to greenhouse gas emissions by the Boroondara community
- The relationship between climate change and other previous and future environmental issues such as our biodiversity and the availability of water
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- The sphere of influence and capacity to contribute to climate change mitigation and adaptation that Council has beyond our own operations
- Emission reductions required to avoid the worst impacts of climate change
- Metrics where data is available to us to track and report on the progress of Council and community emissions, and metrics where monitoring and reporting is unfeasible.



Targets

This Climate Action Plan defines targets for both Council and the municipality of Boroondara as a whole.

Council corporate greenhouse gas emissions target

The majority of Council's electricity now comes from renewable energy. This has been an important factor in reducing our own corporate emissions by more than 80 per cent compared with our baseline year of 2007/08. Many of the most cost effective and best future opportunities for Council to further reduce energy use and costs are at facilities which are supplied by renewable electricity. Improvements at these facilities are important and will continue to be a priority for Council but will not help us achieve our new emissions target on their own.

In setting a corporate greenhouse gas target, Council's approach aligns with the following objectives:

- Reduce energy use and pollution
- Prioritise cleaner energy alternatives
- Pursue cost effective approaches
- Pursue options that invest locally and offer lasting benefits for Boroondara

In delivering the Plan, Council will continue to invest in energy efficiency, renewable energy and other local projects and programs that reduce our energy use and any emissions.

Council has set a target to be carbon neutral by 2022. This will be achieved through an investment in meaningful greenhouse gas offsets that are measurable and verifiable. Carbon neutrality has been deferred until one year after adoption of this Plan to allow Council to determine the most appropriate mechanism for achieving it.

As Council continues to improve our own operations, the requirement for offsets will reduce in line with reductions in our actual emissions prior to offsetting.



Community greenhouse emissions aspirational target

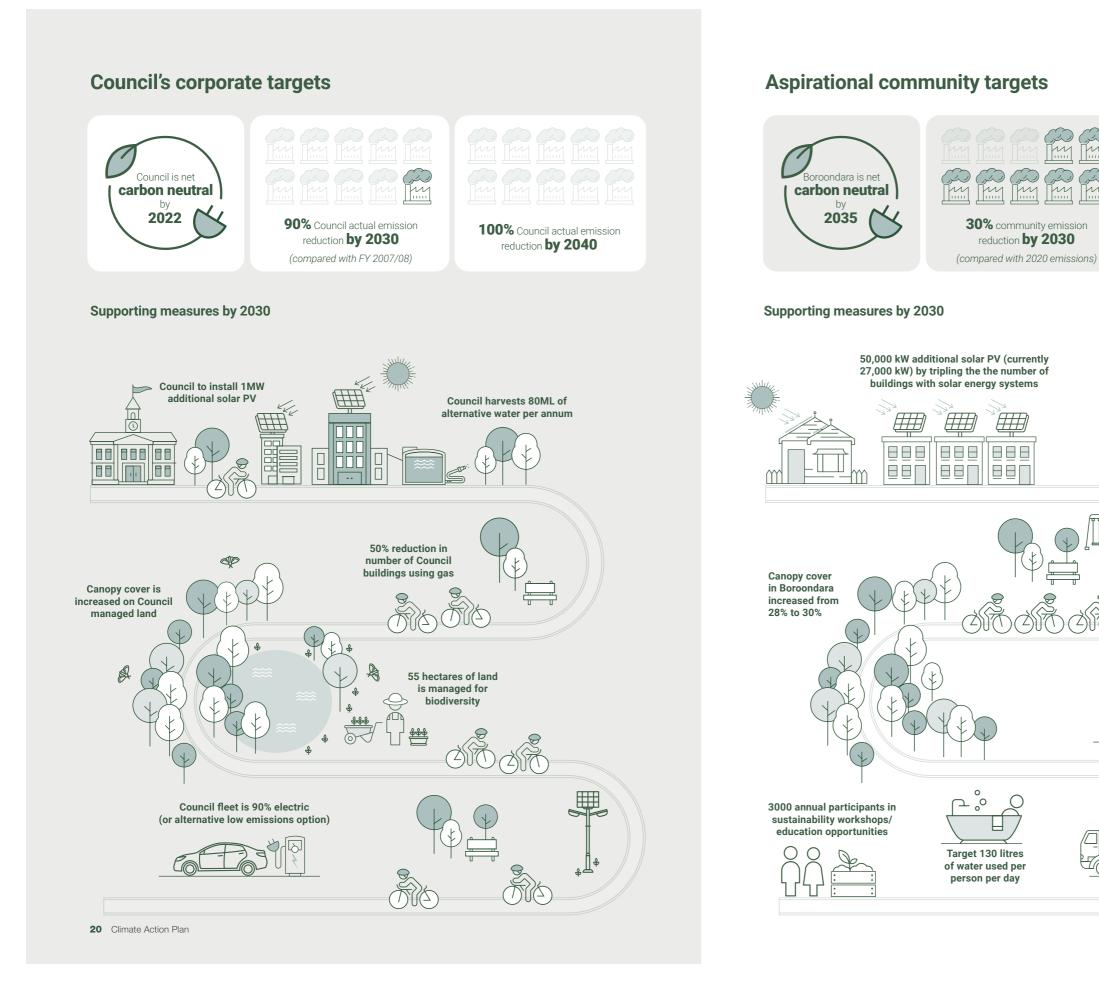
Unlike Federal and State Governments, local governments do not have broad legislative or financial control over major community emissions sources. For example, electricity generation and distribution, Transport Policy, Planning Controls and Agricultural Regulations are mostly controlled by the State and Federal Governments. Additionally taxation and levies along with associated financial incentives are less available to local governments. Council recognises a role in all of these matters but can only partner in solutions and is not able to enforce an outcome.

The aspirational targets for the whole Boroondara community will be more difficult to achieve and will require efforts from Council and the whole community.

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These targets reflect where we need to be to avoid the worst impacts of climate change, and will only be achievable if other levels of government and the the Boroondara community are committed to the same path. Council cannot mandate a target like other levels of government, due to the different powers they hold that enable them to make decisions which directly influence the level of emissions. Meeting these targets will require productive partnerships with community members, businesses and institutions.

We have set targets that are challenging but achievable.



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Actions

The actions identified in this Climate Action Plan will set the municipality on a path to meet our targets.

Some of these actions are ready to roll out, and some require more planning and development. Other actions define how new or updated policy frameworks should be developed in order to allow us to meet our objectives and targets.

These actions have been identified as achievable priorities by our community and staff, and through researched best practice to mitigate and adapt to the effects of climate change.

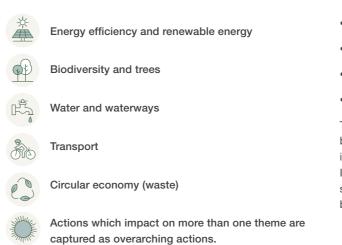
Though some items require commitments from partners, or some technology to be more widely available, our action plan includes taking steps towards the implementation of those items when possible to do so.

As an example, around 8 per cent (based on 2007/08 levels, and making up a total of 40 per cent of emissions in 2021) of Council's greenhouse gas emissions from natural gas is used primarily to heat buildings and pools. A further 8 per cent (also based on 2007/08 levels) is from Council's vehicle fleet which includes large waste collection vehicles.

Council has set a target to halve the number of Council buildings using natural gas by 2030. This will initially be achieved through the transition of smaller facilities and buildings using electric power exclusively. Council will also pursue opportunities to transition our larger facilities and aquatic centres off natural gas. Heat pump technology is currently the most viable solution for heating these facilities, but further work is required to demonstrate the operational and cost effectiveness of this type of technology in the Melbourne climate. The timing for conversion of these larger facilities will largely be determined by the development of viable technological solutions. Council will work with other Victorian councils to build knowledge and trial appropriate technologies.

Council has set a target to convert 90 per cent of our passenger fleet to electric vehicles (EVs) or an alternative low emissions technology by 2030. This transition will initially focus on light vehicles but will progressively include heavier vehicles where appropriate. Small EV and other low emissions vehicles are now readily available but further development is required before replacement of Council's larger vehicles is viable. Supporting infrastructure will also be required to make the transition feasible. Council will respond to opportunities presented by industry transformation throughout the life of the Plan.

Council's actions over the ten year life of the Plan are summarised under five key themes:





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Under each theme the actions are classified as:

- Council corporate actions
- Partnership actions
- Adaptation actions
- Policy and advocacy actions

These long term and broad actions will be supported by more detailed actions identified in the Climate Action Plan Implementation Plans, theme specific strategies and as part of Council's annual budget process.



Energy efficiency and renewable energy

Corporate actions

natural gas

- Implement and update Council's Sustainable Council Building Policy to progressively enhance the energy performance of Council buildings
- Install solar PV on all suitable Council buildings
- Progressively transition Council buildings off
- Offset residual Council emissions from 2022
- Convert remaining Council legacy lighting to LED technology
- Progressively audit Council's building stock to identify energy efficiency opportunities.
- Progressively upgrade major road streetlights to LED (subject to State Government co-funding and an updated business case)
- Transition Council's small machines to fuel efficient and less polluting alternatives.

Partnership actions

- Implement a community solar PV bulk buy program
- Assist large energy users to switch to renewable energy via Power Purchase Agreement or other mechanism
- Deliver energy efficiency workshops, advice and support programs for community and businesses
- Support businesses to reduce the environmental impact of their operations
- Encourage community to offset residual emissions
- Develop a program to support energy efficiency and renewable energy upgrades for Boroondara homes and businesses

Adaptation actions

- Maintain an Emergency Management Plan that considers likely impacts of climate change
- Progressively enhance the Environmentally Sustainable Design (ESD) in Council buildings
- Promote the benefits of cool roofs
- Support vulnerable and low-income residents to upgrade home energy efficiency.

Policy and Advocacy

- Support increased ESD in Council's Planning Scheme through Council policy and advocacy
- Advocate for the enhanced environmental sustainability standards for new commercial and residential developments
- Advocate to State and Federal Government for the adoption of ambitious emission targets
- Develop a Natural Gas Transition Plan to support the adoption of low emissions alternatives to natural gas use at Council buildings.



Biodiversity and trees

Corporate actions

- Increase area managed for biodiversity by 10 hectares from the current 45 hectares
- Enhance habitat for biodiversity
- Enhanced tree planting program to support transition of our urban canopy to one that is resilient and future proofed and provides shade and urban cooling
- Implement a program of winter irrigation of parks and open space using surplus water from our current and future raingardens and water harvesting facilities.

Partnership actions

- Provide tree giveaways to schools, community groups and residents
- Deliver education workshops and programs that support protection and enhancement of our biodiversity.
- for developers



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Adaptation actions

- Include climate change criteria in Council's tree renewal and plant selection guidelines
- Deliver a program of habitat restoration and the installation of nest boxes
- Provide support for increasing the number of canopy trees and shade to reduce urban heat
- Increase open space in gap areas
- Review the Naturestrip Guidelines to facilitate using these spaces.

Policy and Advocacy

- Develop an Urban Forest/ Urban Greening Strategy for Boroondara with an associated planting plan
- Expand and implement policies to protect trees on private land
- Advocate to the Victorian Government to enhance tree protection on private land
- Expand and enforce tree protection regulations
- Update the Boroondara Open Space Strategy.

Water and waterways

Corporate actions

- Implement and update Council's Sustainable Council Building Policy to progressively enhance efficient water use at Council buildings
- Continue to increase water harvesting at Council buildings, parks and sports grounds
- 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).

Partnership actions

- Deliver sustainability workshops to enhance community capacity to use water sustainably
- Provide water efficiency advice and support programs for businesses.

Adaptation actions

- Progressively increase harvesting of alternative water and increase efficiency of water use to reduce reliance on mains water
- Update and implement Council's Integrated Water Management Plan
- Continue to build capacity of our infrastructure to withstand storm and flooding events.

Policy and Advocacy

- Maintain an Integrated Water Management Strategy and Action Plan for the Boroondara
- Implement and promote actions to reduce urban stormwater runoff including permeable surface requirements
- Improved building site management preventing pollution to our waterways
- Develop a winter irrigation strategy for Boroondara
- Develop and implement updated soil management and irrigation management plans for healthier open space.



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Corporate actions

- Reduce the total number of vehicles in Council's fleet and accelerate the transition to electricpowered or other low emissions options
- Identify and set aside land for fast charging stations including car-sharing models
- Pursue opportunities to include electric vehicle and bicycle charging in all relevant Council civil works
- Support flexible working arrangements for Council staff to reduce trips by motor vehicles
- Require contractors to use low emission vehicles where practicable in new contracts.

Partnership actions

- Promote sustainability programs and events to encourage more sustainable modes of transport
- Support installation of electric vehicle and bicycle charging infrastructure
- Support improved off-road shared or separated bicycle and pedestrian infrastructure
- Connect the off-road cycling network through new links (on and off road) including improved crossing facilities on main and local roads
- Investigate and support more on-road bike lane facilities
- Create and enhance walking routes to transport hubs
- Deliver a range of sustainable transport events and programs for schools.
- transport

idling

cycling.

- commuter travel
- operations.

Adaptation actions

- Implement Council's Shade Policy and pursue opportunities to enhance shade on walking routes

- Install lighting for shared paths and paths in reserves and parks to encourage walking and

Policy and Advocacy

- Review and update Council's Integrated Transport Strategy

- Develop a Bicycle Strategy

- Develop a Public Transport Strategy

- Advocate for the reduction of freight emissions including incentives for electric trucks and anti-

Advocate for all Victorian transport projects to provide ready to use electric vehicle and bicycle charging infrastructure

- Advocate for fast charging in service stations

Review Council's Car Share Policy and Procedures to provide support for sustainable

- Advocate for the construction of locationappropriate DDA-compliant tram stops

Support local business hubs which reduce

Develop a Council Fleet Transition Plan to support the adoption of low emission vehicles in Council

Circular economy (waste)

Corporate actions

- Increase recycling options available to the Boroondara community and support new recycling options for items such as solar PV panels
- Increase the use of recycled materials in Council projects
- Eliminate non-essential use of single-use plastic at -Council-sponsored and organised events
- Develop opportunities to use FOGO compost in Council's open spaces and parks
- Investigate opportunities to expand the FOGO program.

Partnership actions

- Deliver workshops and support for:
 - Increased use of recycled materials
 - Reduced food waste
 - Increased composting
- Deliver business focused programs to: -
 - Reduce food waste
 - Reduce packaging waste.



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Adaptation actions

- Support increased home food gardening and community gardening and composting
- Explore options for waste disposal other than landfill.

Policy and Advocacy

- Develop a Circular Economy Strategy for Boroondara to replace the current Waste Minimisation and Recycling Strategy
- Advocate for greater environmental sustainability in the National Construction Code.



Corporate actions

- Report annually on Council's on climate action performance
- Include climate action education as part of staff induction
- Increase funding for climate action grants as part of Council's grant program
- Promote Council action on climate and the benefits of community action
- Embed climate action into staff roles and responsibilities and performance management
- Collaboration with other councils to increase collective impact
- Introduce interim targets at least equal to those set by the State and Federal Governments
- Consider environmental sustainability in investment decisions
- Pursue opportunities to use smart technologies and IOT (Internet of Things) to achieve greater environmental sustainability
- Provide training and resources for Councillors about climate change and other sustainability issues relevant to Boroondara.

Partnership actions

- Provide workshop programs and sustainability festivals
- Develop a cleaner building site program, targeting sediment runoff from development sites, and an engagement and enforcement program
- Provide regular sustainability education and advice through Council's communication channels including the Boroondara Bulletin
- Support greater sustainability measures through the planning permit assessment process including a new Environmentally Sustainable Development (ESD) Planning officer position at Council

Policy and Advocacy

- for Boroondara

- schools
- and impacts.

- Continue to participate in the development of an Environmentally Sustainable Development (ESD) policy to include in the Boroondara Planning Scheme as part of Council's membership in the Council Alliance for a Sustainable Built Environment (CASBE)

Provide a program of sustainability support and advice for schools and young people

Adaptation actions

- Develop options for the use of alternative permeable and/or heat-reducing surfaces in roadways and pathways

- Develop a Climate Action Plan/Risk Management Strategy for Boroondara

- Implement actions to respond to climate change risks identified for Boroondara.

- Update our Procurement Policy, emphasising greater sustainability

Develop a Litter and Pollution Reduction Plan

- Consider climate change impacts in relevant Council reports and decision-making

- Embed climate action into all new and revised Council policies, processes and strategies

Advocate for, and support greater Environmentally Sustainable Development (ESD) through the planning scheme

Pursue opportunities to improve air quality in Boroondara such as anti-idling education around

Pursue opportunities for enhanced data collection and monitoring for reporting on climate actions

How this plan links to other work and polices

The broad nature and impact of climate change means that it is not possible to capture all actions in a single document.

The Climate Action Plan will be supported by a range of other specific strategic documents, as outlined below. Some of these strategies already exist, and others will be developed or refreshed as part of the actions of this plan.

Our Boroondara Community Plan incorporates the Health and Wellbeing Plan which is required to respond to climate change under the Local Government Act 2020.

Strategic links will include:

- Urban Forest Strategy (New strategy as an action of this plan.)
- Open Space Strategy
- Integrated Water Management Strategy
- Urban Biodiversity Strategy
- Sustainable Transport Policy
- Sustainable Procurement (Refresh of our current policy to better integrate sustainability.)
- Council Fleet Policy (Refresh of our current policy to better integrate sustainability.)
- Circular Economy Strategy (Refresh of our Waste Minimisation and Recycling Strategy.)
- Climate Change Adaptation Plan (New strategy as an action of this plan.)

Monitoring and reporting on our actions

This plan will be periodically monitored to track our progress.

Annual monitoring and reporting will include:

- Greenhouse gas emissions for Council
- Snapshot emissions for community
- Waste, recycling and FOGO data
- Tree planting and renewal
- · Water use and harvesting
- · Biodiversity actions
- · Workshops and community support programs.

The Climate Action Plan will be reviewed and updated in five years and the implementation plan will be updated every two years. These updates will include a community check-in survey.



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Community suggestions for future action plans

During our consultation and planning for the Climate Action Plan, we received many ideas and suggestions from the Boroondara community, Council staff and technical experts.

require further investigation and planning, some have been tried before, some are currently being tried by other Councils and others do not align with Council priorities. Whether these suggestions are able to be enacted or not, they are all worth recording for future consideration³.

Not all of these ideas could make it into the plan. Some are included, some



3.	Many of the comments have been paraphrased or combined with similar suggestions
	Feedback opposing action was also received but has not been included in this list.

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- Adapt infrastructure to • climate change
- Backyard chickens
- Buying from bulk food shops
- Buying second hand
- Promote Clean Up • Australia Day
- Clean up our local waterways •
- Councillors and Council staff should use sustainable transport
- Declare a climate emergency
- Divest from fossil fuels
- Dog poo composting
- Efficient glazing
- Energy efficient public lighting
- Expand FOGO
- Get rid of all plastic bags
- More focus on good • building design
- Growing our own fruit and • vegetables

Increase permeable surfaces •

Household batteries

- Keep cats inside at night •
- LED lighting
- Less fast fashion
- More community gardens •
- More nesting boxes for biodiversity

•

- More sharing, possibly • sharing cafes
- More sustainable planning • and building controls

the location

- Plant appropriate trees for •
 - Plant native gardens
- Reduce air travel •
 - Reduce chemical and other pollution
 - Reduce concrete use •
 - Reduce meat consumption
 - Reduce the use of gas

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Repair broken items

- Simplify recycling
- Support a container deposit scheme
- Support bees and insects
- Support cycling
- Support edible plants on nature strips
- Support for apartments dwellers
- Support for renters
- Support schools and students
- Undertake cost benefit analysis before making decisions
- Use more renewable energy
- Using grey water
- Worm farms and home composting

Glossary

Actual carbon emissions total carbon emissions without offsets

Carbon emissions amount of carbon dioxide released into the atmosphere by coal-fired power generators, transport, forest burning, slash-and-burn agriculture, etc.

Carbon-neutrality a state in which an organisation or country balances its carbon emission against its carbon reductions to achieve zero net emissions of carbon dioxide.

Circular economy an economy in which all the elements in the production cycle are reused or recycled, so that there is no pollution or waste.

Climate change a significant change in the usual climatic conditions persisting for an extended period, especially one thought to be caused by global warming.

CO2-e or carbon dioxide

equivalent a term used to describe a standard unit used to measure carbon footprint. CO2-e includes carbon dioxide (CO2) and other more potent greenhouse gases such as methane. These gases are expressed as equivalent (-e) to CO2. 1kg of methane has an equivalent contribution to global warming to 25-28kg of CO2.

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Cogenerator technology that uses natural gas to generate both heat and electricity, and is significantly more efficient than using energy from a single source.

Emissions offset a reduction in emissions made in order to compensate for emissions made elsewhere.

Electric vehicle a car or other vehicle that is powered using an electric motor, unlike traditional vehicles that use fuel and/or gases.

ESD Ecologically Sustainable Development or Environmentally Sustainable Design. These terms or other variations are often used interchangeably.

FOGO food organics and garden organics, often referring to collection services of these items.

Greenhouse gas one of a number of gases found in the atmosphere that contribute to the retention of heat by the process known as the greenhouse effect.

IOT The Internet of Things is the network of physical objects that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet.

IWM Integrated Water

Management – the coordinated management of all components of the water cycle including water consumption, rainwater, stormwater, wastewater and groundwater, to secure a range of benefits for the wider catchment.

Net carbon emissions actual carbon emissions minus emissions offsets

Renewable energy energy from a renewable source, such as solar energy, wind energy, or biomass. Sometimes also referred to as 'green energy' or 'green electricity'.

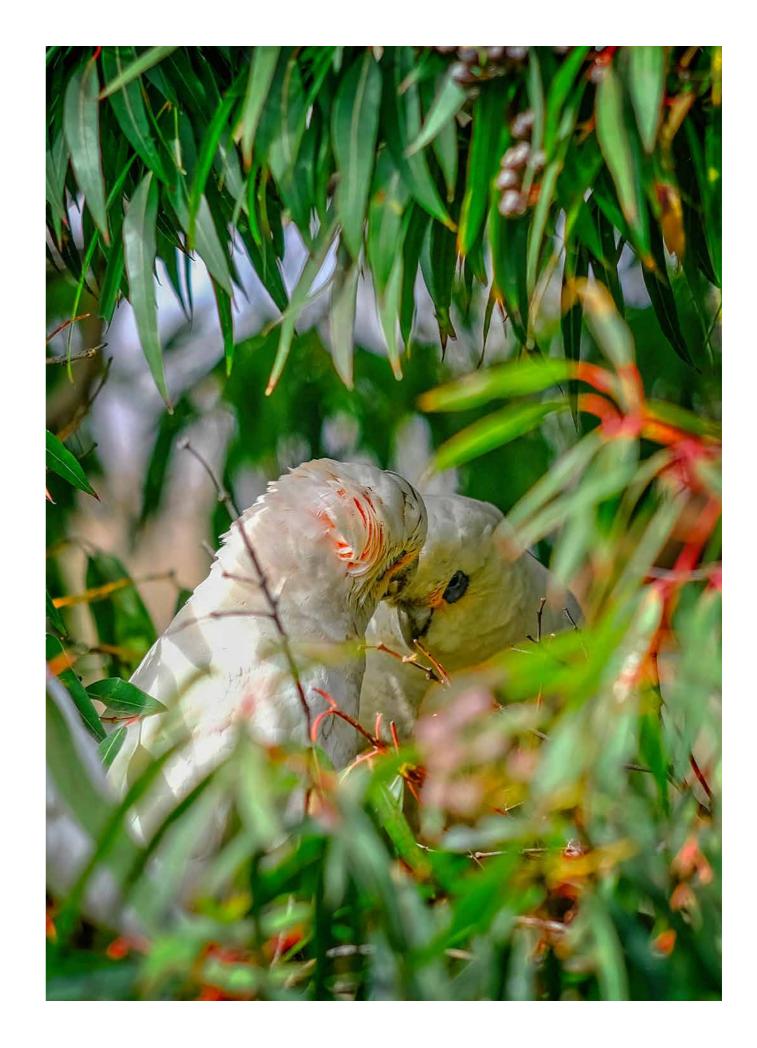
Snapshot database CO₂ emissions snapshots for municipalities in Australia at snapshotclimate.com.au

Single-use items intended for disposal after only one use.

Solar PV (also known as solar photovoltaic) is technology that converts sunlight into electricity.

Urban cooling reducing heat levels in urban areas through efforts such as increased vegetation, shade and tree canopies.

Zero net emissions achieving a balance in the amount of greenhouse gas produced and the amount removed from the atmosphere.



For more information on the Climate Actio	n Plan:
www.boroondara.vic.gov.au/CAP	
boroondara@boroondara.vic.gov.au	
() 9278 4444	
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City of Harmony	> to you