

Climate Emergency Plan progress report

2021



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Climate Emergency Plan Progress Report 2021



Acknowledgement of Country

Mornington Peninsula Shire acknowledges and pays respect to the elders, families and ancestors of the Bunurong/Boon Wurrung people, who have been the custodians of this land for many thousands of years. We acknowledge that the land on which we meet is the place of age-old ceremonies, celebrations, initiation and renewal; and that the Bunurong/Boon Wurrung peoples' living culture continues to have a unique role in the life of this region.

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Executive summary

The Climate Emergency Plan Progress Report 2021 is Mornington Peninsula Shire's (the Shire) first annual report since adoption of the Plan on 25 August 2020. This report provides a summary of progress against each target and all tasks in the Plan.

Since adoption of the Plan, the Shire has accelerated climate action in our policies, strategies, projects, services and decision making. Actions that address every summit of the Plan have been delegated across nearly all business units of the Shire, embedding climate emergency action across the organisation.

The Shire has made significant progress in the first year of delivery. Of the 172 tasks of our 10-year Plan:

- 121 (70%) of tasks have commenced (in progress, completed or ongoing)
- 38 (22%) are not due to start
- 13 (8%) were delayed due to COVID-19 and other unforeseen circumstances.

Detailed reporting against each target and task can be found in Tables 2 and 3, respectively.



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Key achievements from the last 12 months

- Successful advocacy by the community and the Shire to oppose the [AGL Gas Import Terminal](#)
- Successful implementation of the [Carbon Neutral Policy \(2016\)](#). The Shire is currently operating with zero net emissions and is expected to achieve Climate Active certification in October 2021
- 22ha of biolinks created and nearly 17,000 trees and shrubs planted, sequestering carbon and delivering on the objectives of the [Biodiversity Conservation Plan \(2018\)](#)
- The [Annual Budget FY21/22](#) included \$500,000 to implement the Climate Emergency Plan
- The inaugural [Climate Action Grant Program](#) was launched by the Mornington Peninsula Shire, with \$100,000 available for community groups, businesses and schools delivering climate action. Successful recipients will be announced in September 2021
- Launch of the first stage of [Food Organics Garden Organics \(FOGO\) collection](#) in June 2021
- Expansion of the Shire's school and community environmental education program, with multiple webinars, workshops and new lessons offered
- Launch of the Community Energy Program to support the formation of a community energy group in the Shire
- Direct support for community energy efficiency, including [Solar and Energy Bulk Buy and a partnership with the Department of Environment, Land, Water and Planning to deliver the Energy Savvy Upgrades](#)
- Investigation and research on climate resilience and adaptation, which will inform key documents, such as the Health & Wellbeing Plan and the Climate Adaptation Strategy
- Adoption of key strategies, plans and policies:
 - [Beyond Zero Waste Strategy \(Aug 2020\)](#)
 - [Single Use Plastics Policy \(Aug 2020\)](#)
 - [ESD Policy for Council Building and Civil Works \(Sept 2020\)](#),
 - [Waste Contamination Policy \(Feb 2021\)](#).
- Development of key strategies, plans and policies:
 - A draft Integrated Water Management Plan has been developed
 - A draft Flood Resilience & Integrated Stormwater Management Strategy has been developed
 - A draft Food Economy & Agroecology Strategy has been developed
 - The development of a draft Integrated Transport Strategy has commenced.

In this first annual report, we are unable to report on the progress towards our peak goal and some of the targets due to the lack of available data. The complexity of capturing emissions data means there is 12-18-month lag. The most recent data available for emissions is for 2019, before the Plan was adopted. The process for capturing and calculating data is constantly improving, and our reporting will be refined and improved over time. Where data is available for target reporting, it is provided. Where it is not, we have included detail on the actions and progress we have taken.

Following adoption of the plan, our community has reaffirmed its support for the objectives and goals. This is evidenced by the [Community Vision](#), wholly created by a representative Citizens Panel of community members and presented to Council in July 2021. The vision strongly aligned to our Climate Emergency, with the first principle being: "Addressing climate change - Take a proactive stance on climate change through initiatives that support decarbonisation and renewable energy with a set of given targets." The need for urgent action is shared globally. The Intergovernmental Panel on Climate Change's (IPCC) recently released report highlights and reinforces the need for urgent action to avoid catastrophic consequences. It is clearer than ever that climate change can only be addressed by everyone working together. **We need all levels of government, local, state and federal, to coordinate and work together to ensure our future.**

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Background

Mornington Peninsula Shire Council adopted [Ensuring Future: Our Climate Emergency Response](#) on 25 August 2020. The Plan guides the Peninsula towards zero carbon emissions by 2040 through actions described in seven summits and 21 action steps. It is a collaborative plan that can only be achieved by the community, the Shire and other levels of government working together.

The publication of this report achieves the target to “produce and publish the first ‘Climate Emergency Plan’ annual progress report by 2021”. The report details progress on all Targets, Actions and Tasks in the Plan and will be updated annually. A dynamic web page is also being developed to provide more regular progress updates as well as opportunities for involvement, collaboration and education. To keep involved, please sign up to the Climate Change Newsletter: [Register | Shape our Future \(mornpen.vic.gov.au\)](#)

IPCC Report

The Intergovernmental Panel on Climate Change (IPCC) has released its sixth assessment with updates on climate change projections. The report emphasised that we have only a narrow window of action to prevent catastrophic impacts of climate change. Global warming is now expected to increase to 1.5°C by about 2030, based on our current trajectory. Fires, droughts, storms, sea level rise and other impacts are expected to worsen. The full report can be found [here](#) and a summary prepared by the Climate Council can be found [here](#).

stance on climate change through initiatives that support decarbonisation and renewable energy with a set of given targets.”

The Community Vision, along with the Climate Emergency Plan and other key policy and strategy documents, will inform the Council Plan for 2021-2025. This is currently being developed and is intended to be presented for adoption late in 2021.

Community Vision

In July 2021, Council was presented with a [Community Vision](#) wholly created by a representative Citizens Panel of community members. The vision reaffirmed support for the objectives of the Climate Emergency Plan. More than 3,000 responses from community members were received during the development of the Vision. The first principle of our Community Vision is “Addressing Climate Change - Take a proactive

COVID-19

COVID-19 has had significant impacts on our community and our plans. Whilst we have identified reductions in local, national and global emissions as a result of the way we are currently living, they are expected to bounce back and continue rising. At the same time, the Shire’s focus has had to shift to management of the pandemic and economic recovery which has caused delays in the delivery of some of the tasks.

Progress report

This progress report is a snapshot of the work that the Shire, the community and our partner organisations have been doing since the Climate Emergency Plan adoption in August 2020. There are 21 actions and 172 tasks that contribute to achieving the 43 targets within the Plan. We have prioritised the tasks and actions and acted on according to their cost, complexity, impact and available support. Of the 172 tasks, 121 of them (70%) have commenced (in progress, completed or ongoing), whilst 38 (22%) are not due to start (Table 1). A further 13 (8%) were delayed, due to COVID-19 and other unforeseen circumstances.

Table 1 Progress of tasks

In Progress	Not due to start	Completed	Ongoing	Delayed	Total
74	38	2	45	13	172

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Our Plan needs everyone to work together, including all levels of government, businesses, communities and individuals. There are many things happening outside the Peninsula that are helping us reach our targets. Notably:

- [Victorian Government Interim targets](#), published May 2021, which legislated emissions reductions targets of 28-33% by 2025 and 45-50% by 2030.
- The Victorian Government's [Zero Emissions Vehicle Roadmap](#), published in May 2021, which set a target of 50% of light vehicle sales to be zero emission by 2030.
- In July 2021, the Australian Renewable Energy Agency (ARENA) [announced \\$24.55m of funding to expand Australia's fast charging network](#). The proposed chargers include locations in Sorrento, Rosebud, Mornington and Hastings.
- Following the [Recycling Victoria Policy](#) released in 2020, the Victorian Government has released a large number of grants aimed at building capacity, reducing waste to landfill and transitioning to a circular economy
- The Victorian Government announced plans to develop Renewable Energy Zones in Victoria, supported by a \$540 million package to invest in network infrastructure and the establishment of a new coordinating body, VicGrid. This allows the Government to target investment towards strengthening the transmission network in Victoria to enable an orderly and coordinated transition to renewable energy.

Targets

The targets represent our goals in each summit and are critical to direct our response. In the last 12 months, work has begun to address gaps in knowledge, data availability and difficulties in measuring and reporting.

In this first annual report, we are *not* able to report on progress towards achieving the peak goal and some of the targets. Progress against the target has been detailed where possible. However, not all data is available for this reporting period due to the complexity and availability of data, which carries about a 12-18 month time lag. For emissions, the most recent data available is for 2019, before the Plan was adopted.

Detailed reporting on the progress of all targets is in Table 2.

Actions and tasks

Each of the 21 actions within the Climate Emergency Plan help contribute to the targets outlined in our Seven Summits to guide us to our peak goal of net zero emissions. Detailed tasks sit underneath each action. The implementation of these tasks is the shared responsibility of all Shire teams, who will engage with key stakeholders including our community, businesses, organisations, schools and other government bodies in their delivery.

Many of the actions and targets are interlinked and complement each other. Some rely on other work to commence. Where possible, detail and examples have been provided.

Table 3 contains the detailed reporting on all tasks that sit under the 21 action steps. This is reported by relevant officers responsible for delivering or coordinating the delivery of the task. Indicative timelines have been provided where possible, based on best estimates.

Table 4 contains a summary of tasks that are not due to start, along with an indicative timeline where known.

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Progress update - targets

Table 2: Reporting on targets



Peak goal		
#	Target	Detail
Peak Goal	Reach net zero-emissions Shire-wide by 2040	Update of community emissions data is not yet available for this reporting period. Indicative trends show a small reduction in emissions due to COVID-19, however this is likely to rebound. Comprehensive emissions profiles will be included in future reports when data becomes available.

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Leadership and governance

#	Target	Detail
Key target	By 2021, responsibility for climate emergency action will be shared across the entire organisation and our community, led by a Climate Oversight Group composed of Shire executive and key staff.	Delayed due to impacts of COVID-19 and the focus on recovery. The Climate Oversight Group will be formed in early 2022.
1.1	Each year the Shire will review and update our 21 action steps	A review of the 21 action steps was conducted during the creation of the Climate Emergency Plan Progress Report 2021 (this document). No update to the action steps required for this year. A full update is planned for late 2022.
1.2	By 2021, establish a deliberative panel of community representatives, including Traditional Owners, to inform and review Climate Emergency decisions with a clear 'Terms of Reference'	Delayed due to the engagement of a deliberative panel to develop the Council Vision. Likely timeline is early-mid 2022.
1.3	From 2021, establish a reference group of suitable strategic partners and experts to guide solutions, as required	Delayed due to impacts of COVID-19 and the focus on recovery. Likely timeline is early-mid 2022.
1.4	By 2021, produce and publish the first 'Climate Emergency Plan' annual progress report	2020-2021 Annual Progress Report completed and published.

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Increase climate advocacy

#	Target	Detail
Key target	Each year the Shire will work with the community towards shared advocacy goals and advocate powerfully with community and key partners to leverage leadership to all levels of government and business.	This target for ongoing collaboration between the Shire is on track. This has been highlighted by the advocacy campaign against the development of the AGL Gas Import Terminal in Crib Point
2.1	By 2021, develop and publish the 'Climate Emergency Advocacy Plan', advocate on the priority actions within the plan and review it every two years	Delayed due to impacts of COVID-19 and focus on recovery.
2.2	By 2021, develop and publish the first 'Annual Advocacy Report' for transparency and accountability	Delayed due to impacts of COVID-19 and focus on recovery.
2.3	From 2023 onwards, the Shire will develop at least three case studies annually. These case studies will include measurable indicators, benefits and lessons learnt of projects and activities undertaken by the community and the Shire that have worked towards stopping climate change	Planning for case studies will commence during and following the development of the Climate Emergency Advocacy Plan.

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Zero carbon energy

#	Target	Detail
Key target	By 2030, 200MW of renewable electricity will be generated locally. That's enough to power approximately 50,000 homes on the Peninsula.	Target 45% complete. As of April 2021, 91 MW of known renewable energy generation capacity is installed on the Mornington Peninsula. 90 MW of the total capacity is comprised of residential, commercial and large-scale solar PV and 1 MW of the total capacity is comprised of electricity generation from biogas.
3.1	By 2021, Mornington Peninsula Shire will reduce emissions within its operational boundary to net zero, and achieve Carbon Neutral accreditation	Target 95% complete. The Shire has achieved zero net emission for 2020/2021 financial year and has submitted an application to Climate Active to be certified under the Climate Active Carbon Neutral Standard. Certification is expected to be received in September 2021.
3.2	By 2023, the Shire will source all electricity from renewable generation	Target 10% complete. The Shire currently generates over 1.4 GWh of zero-emission electricity per annum from the 1.2 MW of solar PV installed on the rooftops of its buildings, but purchases an additional 9 GWh of electricity from the grid which is not classed as zero-emission or renewable energy.
3.3	By 2030, 50% of all buildings on the Peninsula will have solar panels installed	Target 40% complete. As of April 2021, the Australian PV Institute estimates 20% of buildings on the Mornington Peninsula have solar PV installed.
3.4	By 2030, carbon emissions from all residential buildings and businesses will be reduced by 70% from 2018 levels	Data not yet available. This will be updated once the next community emissions profile for the Mornington Peninsula is generated.

Resilient and adaptive community (continued overleaf)

#	Target	Detail
Key target	By 2025, the resilience of our community will be strengthened by maximising social connections and meaningful engagement to increase understanding of the local impacts and risks of climate change.	Community resilience has been significantly impacted by COVID-19, through lack of social connection, impacts to businesses, tourism losses and financial hardships. The Shire is undertaking numerous actions to build strong connections, support community resilience and embed sustainability into the COVID-19 recovery response.
4.1	Each year the Shire will participate in at least 50% of the major community-led events on climate action	The Shire is currently identifying a process to quantify all community-led climate action events. Despite COVID-19, there have been a number of community events on climate action including the 'School Strike for Climate' (May 2021) and a climate-related meeting of the 'Flinders Community Association' (February 2021). Representatives from the Shire presented at these events.
4.2	By 2025, Shire infrastructure and services planning will consider climate change impacts.	The Shire's Environmentally Sustainable Design (ESD) Policy was adopted in September 2020, embedding climate change mitigation and adaptation into capital works design. An internal training and education program that encourages all staff to consider climate change in their work is in development.
4.3	By 2025, increase community deliberative engagement in the Shire's 'Climate Emergency Action' decisions	Delayed due to impacts of COVID-19 and focus on recovery.

Resilient and adaptive community (continued)

#	Target	Detail
4.4	By 2025, renewable energy is easily accessible to all sectors of the community, including tenants	Approximately 20% of buildings on the Mornington Peninsula have solar panels installed as of April 2021. The Shire has supported uptake through Energy Advice Service, Solar Bulk Buy and other programs. Low-income housing, short-stay accommodation and rental properties remain key focus areas for future work.
4.5	By 2030, community and business awareness of the local impacts of climate change and ability to prepare for extreme weather events is improved by 20%	Baseline data reporting is being collected as part of supporting plan and strategy development and consultation, e.g. draft Health & Wellbeing Plan, draft Food Economy & Agroecology Strategy and planned Economic Development Strategy.
4.6	By 2030, reduce the 'Annual Average Damage' (AAD) of flood prone areas on the Peninsula by 10%	Updated Annual Average Damage data is not yet available. A draft Flood Resilience and Integrated Stormwater Management (FRISM) Strategy will be presented to Council for approval to go on public exhibition in August 2021, and will outline key actions and objectives to deliver this target.

Sustainable travel and transport (continued overleaf)

#	Target	Detail
Key target	By 2030, transport emissions will be reduced by 50% from 2018 levels.	Target 59%* complete. Google Environmental Insights have estimated transport emissions in 2020 had decreased by ~29.5% from 2018 levels. This progress can be attributed to the reduction in transport in Victoria due to COVID-19 restrictions and is expected to regress in future years. <i>*Data used to inform the published emissions profile in this plan is not yet available. An alternative source of data, Google's Environmental Insights Explorer, has been used for this progress report. This data source has estimated transport emissions in 2018 to be 709,000 tCO₂-e, that's 67,000 tCO₂-e more than what was estimated in this Plan.</i>
5.1	By 2025, transition communities to active transport within townships by increasing pedestrian and cyclist traffic by 10% from 2019 levels	Data is not yet available. Possible indicators being investigated for accuracy and relevance. Baseline data and future reporting will be included in future reports.
5.2	By 2025, daily public transport usage will be doubled	Data is not yet available. Possible indicators being investigated for accuracy and relevance. Baseline data and future reporting will be included in future reports.

Sustainable travel and transport (continued)

#	Target	Detail
5.3	By 2025, electric vehicle charging infrastructure will be available at major activity centres to facilitate the use of zero-emissions vehicles	<p>The Victorian Government has adopted a target of 50% of all new light vehicles sales to be zero emission vehicles (EV's) by 2030.</p> <p>The public electric vehicle charging network is growing following a rollout of destination chargers at key tourist destinations. In July 2021, the Australian Renewable Energy Agency (ARENA) announced \$24.55m in funding for fast-charging EV infrastructure. The proposed locations include Sorrento, Rosebud, Mornington and Hastings. The Shire is currently investigating options for using Shire-owned land for charging infrastructure. Existing charging infrastructure can be tracked on Plug Share</p>
5.4	By 2030, all Shire fleet vehicles will be zero-emissions	<p>Target 3.6% complete. The Shire currently has 6 Electric Vehicles in its pool car fleet, as a trial of cost, effectiveness and reliability. The initial focus will be on pool cars and expanded to all fleet cars progressively, as well as building charging capacity at relevant facilities.</p>
5.5	By 2030, major economic hubs and schools will be more accessible by a network of footpaths, school walking bus lanes, bike lanes or public transport,	<p>The development and adoption of the Integrated Transport Strategy will be the primary guiding document for this target.</p> <p>Current implementation of the Pedestrian Access Strategy and RideSafe Strategy is delivering projects to connect communities and townships</p>
5.6	By 2030, smart technology public transport solutions are introduced, such as 'Movement as a Service' (MaaS)	<p>In the 2021-22, Council approved \$110,000 for an 'on demand' bus service trial, which will inform future 'smart' technology opportunities.</p>

Sustainable land use and natural environment

#	Target	Detail
Key target	Between 2020 and 2030, 1 million tonnes of atmospheric carbon will be sequestered on the Peninsula through terrestrial and aquatic plantings and improved soil conditions	<p>Target is ~10% complete. Work is underway on key areas of investigation and action:</p> <ul style="list-style-type: none"> - Soil carbon sequestration is a key target of the draft Food Economy & Agroecology Strategy, to be taken to Council for community consultation in late 2021. - 7970 trees and shrubs were planted in 2020/2021 in key areas by the Landcare groups and 8953 by Friends Groups = 16,923 planted in total. - Blue Carbon research and trials are also underway, e.g. seaweed production and protection of existing vegetation. <p>Data collection and reporting methods are still being investigated and will be reported when available.</p>
6.1	Each year there will be no new extinctions of indigenous species on the Peninsula	No local extinctions have been reported in the last year. Implementation of the Biodiversity Conservation Plan is continuing to support and protect endangered and significant plant and animal species, including developing guidelines to protect key threatened species and monitoring programs for threatened flora species.
6.2	By 2025, existing established indigenous trees are protected	The Shire is currently developing a Tree Ledger (Task 11.2), which will help to identify established indigenous and significant trees for protection.

Sustainable land use and natural environment

#	Target	Detail
6.3	By 2030, 20% of local farms will adopt agroecological practices or transition to regenerative farming techniques	The upcoming Food Economy & Agriculture Strategy will be key in defining, implementing and measuring progress on this target. The draft Strategy is expected to be taken to Council for community consultation late in 2021.
6.4	By 2025, increase human-nature connections by involving a total of 10,000 people in local terrestrial and marine based environmental care programs	Landcare and Friends groups have engaged 1,500 and 1,397 people, respectively. The Shire has engaged 1,400 people in community and school environmental education programs.
6.5	By 2030, vegetation will be in place to increase shade to 45% in urban public spaces	Data is being collected through the Tree Ledger project. Following this, local targets and action plans will be put in place to work to this target
6.6	By 2030, recycled water will be available in strategic Peninsula regions for agriculture and other beneficial purposes	Design of the first stage of the Mount Martha Recycled Water project is underway, delivering recycled water to the Briars and neighbouring Council assets. The Hinterland and Tyabb-Somerville Recycled Water projects are currently in the feasibility stage to inform future grant applications.
6.7	By 2030, increase ecosystem resilience to climate change and other threats on the Peninsula, e.g. through restoring connectivity of habitat across public and private land.	Since adoption, 22 hectares of biolinks have been created through Landcare and Friends Group projects.
6.8	By 2030, improve waterway health by 10% from 2020 levels	The Shire is currently working with Melbourne Water (MW) and the Environmental Protection Agency (EPA) to determine baseline (2020) data. We continue to collaborate with MW on programs that target pollution hot spots across peninsula.

Circular economy and zero waste

#	Target	Detail
Key target	By 2030, zero waste will go to landfill and 100% of resources will be recovered and reused	Full reporting on waste will be conducted as part of the Beyond Zero Waste Strategy reporting, due late in 2021.
7.1	By 2021, implement a FOGO service for residences	Target 80% complete. In July 2021, FOGO Stage 1 was rolled out as an opt-in for all residences with a green bin. A review will be conducted in June 2022 to inform future direction.
7.2	By 2030, cut the total waste generated per premises in households by 20% (including plastic waste)	Data is not yet available. Further information will be available with the Beyond Zero Waste Strategy reporting.
7.3	By 2030, cut the total waste generated by businesses by 20% (including plastic waste)	Data is not yet available. Reporting channels and actions are being investigated and will be reported on when available.
7.4	By 2030, 22,829 tonnes of recycled content will be used in Shire civil or construction works	Recycled content has been included in several major capital works projects, however quantities have not yet been recorded. Processes are being reviewed to capture this data across all civil and construction works undertaken by the Shire.
Key target	By 2030, zero waste will go to landfill and 100% of resources will be recovered and reused	Full reporting on waste will be conducted as part of the Beyond Zero Waste Strategy reporting, due late in 2021.

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Progress update – actions and tasks

Table 3: Reporting on actions and tasks

Action 1 - Lead in the Climate Emergency				
#	Task wording	Progress	Detail	Time frame
Key focus	Form an executive-led Climate Oversight Group (COG) to implement this Plan and embed climate emergency priorities into all Shire decisions, programs, policies and strategies.	Delayed	The establishment of the Climate Oversight Group (COG) has been delayed due to internal changes and the COVID-19 response and recovery. This group will be formed in the coming 12 months.	2022
1.1	Form an executive-led Climate Oversight Group (COG), immediately following the adoption of this Climate Emergency Plan, and to oversee the Plan's implementation and ensure that the Shire's values of Integrity, Courage, Openness, Respect and Excellence are upheld	Delayed	The establishment of the Climate Oversight Group (COG) has been delayed due to internal changes and the COVID-19 response and recovery. This group will be formed in the coming 12 months.	2022
1.2	By 2021, establish appropriate community representation to provide recommendations to Council and Executive on community climate change issues, climate emergency priorities and relevant scientific advice. The format may be a deliberative panel, an expert reference group or any model suitable for genuine collaboration	Delayed	The establishment of appropriate community representation has been delayed whilst the Council Vision and new Council Plan has been developed in collaboration with a deliberative democracy panel. The outcomes of this process will inform the format of this proposed group.	2022

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1.3	Representatives from Registered Aboriginal Party and other Traditional Owner Groups are involved in decision making impacting the region, especially regarding protecting the natural environment	In Progress	In 2020-21, Mornington Peninsula Shire worked with Bunurong Land Council to support the Warreen Beek Ranger program. This program was designed specifically for Traditional Owners/Aboriginal and Torres Strait Islanders to gain skills to work on country in the greater Melbourne area, whilst gaining accreditation in conservation and land management. This program was delivered through Bunurong Land Council, Trust for Nature and Holmesglen Institute, and was made available by a grant obtained by the Bunurong Land Council with funding assistance from Victorian State Government, Mornington Peninsula Shire, Wurundjeri Woiwurrung Naarap Rangers, Zoos Victoria and Port Phillip & Westernport Catchment Management Authority.	Ongoing
1.4	From 2021 onwards, establish a panel of strategic industry partners and experts to deliberate solutions and approaches as required	Delayed	Delayed due to COVID-19 implications.	2022
1.5	Embed the Climate Emergency in all future Shire plans, decisions, programs, actions, policies, strategies and contracts	Ongoing	The Shire has begun to embed Climate Emergency Plan objectives into all relevant policies, plans and strategies as they are developed following adoption of the Plan. Some examples include: <ul style="list-style-type: none"> • Beyond Zero Waste Strategy (Aug 2020) • Single Use Plastics Policy (Aug 2020) • ESD Policy for Council Building and Civil Works (Sept 2020) • Waste Contamination Policy (Feb 2021). 	Ongoing

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1.7	Seek funding for climate emergency responses, including partnerships, grants and sustainable loans	Ongoing	No major relevant grant applications awarded in the last year.	Ongoing
1.8	Empower the Shire's Learning and Development Program and change management channels to strengthen the organisation's resilience and foster climate change leadership	In Progress	Planning has commenced internally to develop a climate change Learning & Development program for all staff.	2021-2023
1.9	Improve internal messaging and communications regarding the Shire's role, programs and achievements related to the Climate Emergency	In Progress	Internal resources have been updated to improve messaging and communications.	2021-2022
1.10	Report to the public on a regular basis on climate change actions taken by the Shire	Ongoing	To complement this and future Annual Reports, the Shire is currently developing a live online reporting platform the community will be able to view to see up to date information on all tasks.	Ongoing
1.11	Monitor and evaluate progress and amend the Climate Emergency tasks as required to ensure progress towards our targets is achieved	In Progress	Monitoring and evaluation of progress is an ongoing task. Appropriate processes are in place or being developed measure progress against targets and outcomes of delivered tasks. The Plan, including all targets, actions and tasks, will be reviewed and updated annually, beginning in year 2.	Ongoing

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1.13	Prioritise Climate Emergency projects on and/or affecting the peninsula ahead of climate-damaging projects. Seek climate-safe alternatives where available and feasible. Encourage innovation by seeking market-based options and alternate funding models	Ongoing	Priority levels of projects are continually being reviewed and adjusted as required. An example of this is last 12 months is the community and Shire coordinated response to the AGL Gas Import Terminal proposal to ensure the avoidance of additional fugitive emissions on the Peninsula: https://shape.mornpen.vic.gov.au/agl-crib-point-gas-pipeline-project	Ongoing
1.14	Oversee advocacy activities with and by Councillors on behalf of the organisation, to ensure consistency in approach	Ongoing	This ongoing task is being delivered.	Ongoing
1.15	Oversee all actions delivered by this Plan to ensure that they align with Shire values, and remain equitable and fair to all vulnerable and marginal people in the communities.	Ongoing	This ongoing task is being delivered.	Ongoing

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Action 2 - Advocate and innovate for climate emergency response

#	Task wording	Progress	Detail	Time frame
Key focus	Develop and begin to implement a Climate Emergency Advocacy Plan by 2021, to achieve social and economic change at state and federal levels	Delayed	Delayed to prioritise COVID-19 response and development of the Community Vision and Council Plan.	2022
	2.1 Publish an annual Climate Emergency Advocacy Report, detailing collaborations and actions taken	Delayed	Delayed to prioritise COVID-19 response and development of the Community Vision and Council Plan.	Ongoing
	2.2 Review the Climate Emergency Advocacy Plan every two years	Delayed	Delayed until a Climate Emergency Advocacy Plan has been developed.	Ongoing
	2.3 Advocate immediately to the state and federal governments to ensure a 'Green Recovery' from COVID-19, prioritising sustainable projects that transition away from a fossil-fuel economy while generating jobs and economic prosperity	In progress	Council has adopted the 2021-22 Budget, which includes a COVID-19 Recovery budget of over \$10M. Within this is a \$500k budget to facilitate environmental/solar upgrades and retrofits, investigate solar and battery farms and a community led Virtual Energy Network and fund community Climate Change action.	2022
	2.4 Develop at least three 'climate action' case studies annually which include measurable indicators, benefits and lessons learnt of projects and activities undertaken by the community and the Shire	Delayed	Delayed until target date of 2023.	2023 - 2030

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2.5	<p>Advocate to the Victorian Government to declare a Climate Emergency and to:</p> <ul style="list-style-type: none"> a. Set a 100% renewable energy target for 2040 or earlier, reduce greenhouse gas emissions and transition rapidly to a renewable energy-based economy b. Improve transportation policy and infrastructure, including improving and incentivising public transport; and transition to zero-emission vehicles c. Support vulnerable communities to mitigate and adapt to climate change 	Ongoing	The Shire has and will continue to advocate to the Victorian Government to declare a climate emergency and accelerate action.	Ongoing
2.6	<p>Advocate to the Federal Government to declare a Climate Emergency and to:</p> <ul style="list-style-type: none"> a. Protect and care for people displaced due to climate change, both nationally and internationally b. Develop a 'National Economic Transition Plan' c. Reduce greenhouse gas emissions and implement a renewable energy-based economy d. Fund and deliver effective and scalable methods to draw down carbon from the atmosphere e. Improve ecosystem and species protections under the Environment Protection and Biodiversity Conservation Act 1999 f. Improving sustainability in the transport, water management and agriculture sectors, including setting ambitious targets and identifying project opportunities g. Improve minimum standards for residential homes in the National Construction Code h. Develop a 'National Zero Waste and Circular Economy' policy i. Develop a simple scheme for small businesses to measure and reduce emissions to net zero 	Ongoing	The Shire has and will continue to advocate to the Federal Government to declare a climate emergency and accelerate action.	Ongoing

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2.7	<p>Advocate to other councils and local government collective organisations such as ABM, MAV, SECCCA to:</p> <ul style="list-style-type: none"> a. Declare a Climate Emergency and develop an appropriate response b. Promote membership in effective climate action alliances 	Ongoing	<p>The Shire has advocated, along with other South East Councils Climate Change Alliance (SECCCA) Councils, for the Municipal Association of Victoria (MAV) to work more closely with SECCCA and other Greenhouse Alliances at the recent MAV conference.</p> <p>The SECCCA Councillor Advisory Committee agreed to declare a Climate Emergency in Feb 2020.</p>	Ongoing
2.8	<p>Advocate to business and industry operating within the Peninsula, and beyond to:</p> <ul style="list-style-type: none"> a. Declare a Climate Emergency b. Actively reduce their emissions in line with the Shire's Climate Emergency targets c. Reduce their waste, including plastic, food and construction materials d. Support manufacturing, services, and sourcing of local and sustainable products. e. Prioritise the manufacturing and purchasing of recycled products where possible 	Delayed	<p>Delayed until a Climate Emergency Advocacy Plan has been developed.</p>	2022-2024

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Action 3– Reach beyond carbon neutral

#	Task wording	Progress	Detail	Time frame
Key focus	Develop a Beyond Carbon Neutral Plan (BCNP) to set out how the Shire will continue to reduce greenhouse gas emissions from its own business operations, and to source locally generated carbon offsets.	In Progress	The Shire is on track to meet its commitment of becoming Carbon Neutral by 2021 and be certified under the Climate Active Carbon Neutral Standard. Part of the commitment is to continue to reduce residual emissions. The proposed Beyond Carbon Neutral Plan will set out emissions reduction actions to do this. The development of the plan will commence in 2021.	2021-2023
	Achieve zero net emissions for Shire operations and be accredited as carbon neutral under the 'Climate Active Carbon Neutral Standard'	In Progress	The Shire has achieved zero net emission for 2019/20 financial year and is currently applying for certification under the Climate Active Carbon Neutral Standard. The Shire will continue to reduce emissions, offset residual emissions and maintain Climate Active Certification for future years.	2021
	Identify and deliver projects to minimise residual emissions and reduce the subsequent offsets required to maintain carbon neutral accreditation. The plan will consider emissions from Shire energy and water use, Shire and staff travel and transport (including accommodation), refrigerants, leased facilities and the supply chain. Some projects already proposed include: -Solar farm next to Rye Landfill -Energy efficiency initiatives and solar PV for community buildings -LED main road and decorative streetlights	Ongoing	The Shire continues to identify opportunities to reduce its own emissions. Over the past 12 months, energy efficiency projects such as lighting upgrades have been delivered along with more rooftop solar PV projects. Additional opportunities will feed into the above mentioned Beyond Carbon Neutral Plan.	Ongoing

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3.4	Develop, adopt and implement a 'Carbon Offsetting Strategy', seeking to maximise carbon offsets from emissions reduction projects on the Mornington Peninsula through facilitation, collaboration and support with potential partners	In progress	The Shire is currently purchasing carbon credits from projects within Australia and overseas to offset its carbon footprint and operate with zero net emissions. In recognising the value in investing in the local economy, this plan will develop a strategy to support the development of local carbon credit projects.	2022-2023
3.5	Restrict new natural gas connections for Shire facilities, and develop a 'Natural Gas Phaseout Strategy' with clear targets	In Progress	New Shire facilities are being designed to be all-electric unless proven not feasible. Existing buildings have started to be electrified proactively or as equipment is replaced. The Shire has been conducting building electrification trials over the past 12 months which will inform a 'Natural Gas Phaseout Strategy'. The strategy will be developed over the next 12 months.	2020-2022
3.6	Invest in innovative technology to accelerate activities that go beyond carbon neutral, especially those that support local industries and businesses.	Ongoing	Investigations are being undertaken on an ongoing basis to determine feasibility of new technologies, such as Virtual Energy Networks and waste reprocessing.	Ongoing

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Action 4 – Create a resilient built environment

#	Task wording	Progress	Detail	Time frame
Key focus	Develop programs for Peninsula homes and businesses to reduce their carbon footprint and increase climate resilience.	Ongoing	The Shire has continued to promote the Environmental Upgrade Finance program, which assists businesses to upgrade their facilities. The Shire has also teamed up with 'Climate Clever' to offer residents, businesses and schools a 50% discount to the app which helps track carbon emissions and suggests actions to become more 'climate clever'.	Ongoing
	4.1 Increase the uptake of Environmental Upgrade Finance (EUF) to enable eligible parties to access low risk finance for environmental building upgrades to improve energy, water and waste efficiencies	Ongoing	Business uptake of Environmental Upgrade Finance has slowed considerably this year due to COVID-19. As business emerge from dealing with the uncertainty that COVID-19 presents, this is likely to increase. In addition to EUF, there are currently other options for businesses to undertake energy upgrades, including the Solar for Small Business grants from State government.	Ongoing
	4.2 Support, promote and advocate for programs to sustainably retrofit homes to build resilience to the impacts of climate change, particularly for socially and economically disadvantaged households	In Progress	The Shire partnered with the Department of Environment, Land, Water and Planning to offer the Energy Savvy Upgrade program to 73 Shire residents. The program offered a contribution towards a home energy assessment and energy and renewable upgrades for households struggling to pay bills, living with an on-going medical condition, caring for others or other adverse circumstances.	2021-2024

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4.3	Facilitate competitive offers to encourage the community to uptake for sustainable options such as solar panels, batteries and/or electric vehicle charging infrastructure, e.g. bulk buys and power purchase agreements	In Progress	In conjunction with the Australian Energy Foundation, the Solar and Energy Bulk buy program has been launched. This offers ratepayers access to free energy advice, discounted rates on high quality products from vetted suppliers and assistance in obtaining state government rebates. In addition, the State government's program Solar for Business has been promoted.	2020-2022
4.4	Provide advice to support community owned renewable energy programs, such as solar farms and micro-grids	Ongoing	Initiated a discussion and workshops with the community to explore opportunities for establishing a Community Owned Renewable Energy Program. Community meetings and workshops are planned for second half of 2021.	Ongoing
4.5	Seek partnerships and/or services to enable residents and businesses to easily access expert advice on energy efficiency, solar and other products	Ongoing	The education and advice service offered through the Solar and Energy bulk buy program is available to all community members include businesses.	Ongoing
4.6	Run sustainability workshops and information sessions to encourage residents to sustainably retrofit or design their homes, install renewables and build resilience to climate change	Ongoing	Workshops planned for 2021 include 'Design your own sustainable home', 'Prepare your home for summer' and 'Climate-proof your garden'. COVID-19 restrictions have impacted timelines.	Ongoing
4.8	Evaluate, and implement if appropriate, a scheme to incentivise land rates rebates for higher environmental standards in building performance and renewable energy supply	In progress	The stakeholder engagement and development of the Food Economy and Agroecology Strategy was undertaken in the first half of 20/21 financial year. A recommendation was put forward to implement an incentive program for landholders undertaking agroecological practices or natural capital improvement measures via a rating strategy rebate. The Strategy will be presented to Council in late 2021.	2020-2023

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4.9	Support demand response programs to manage peak energy usage to minimise blackouts and brownouts (e.g. United Energy's demand response program 'Summer Savers')	Ongoing	In August 2021, United Energy announced they will be rolling out 40 community-based batteries on their electricity network. This includes batteries in McCrae, Crib Point, Somerville, Dromana, and Blairgowrie. United Energy have continued to deliver their 'Summer Saver' program, aimed at encouraging electricity customers to reduce their energy demand during peak periods to reduce load on the grid. The Shire will continue to support the engagement of eligible customers. The Shire has continued discussion with United Energy around the possibility of trialling new and more sustainable technology to manage peak demand constraints.	Ongoing
4.10	Provide educational programs and displays to assist residents to sustainably retrofit their homes and prepare for the impacts of climate change	Ongoing	Workshops planned for 2021 include 'Design your own sustainable home', 'Prepare your home for summer' and 'Climate-proof your garden'. COVID-19 restrictions have impacted timelines.	Ongoing

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Action 5 – Mobilise and strengthen community action

#	Task wording	Progress	Detail	Time frame
Key focus	Strengthen relationships among the Shire and local groups to amplify community voices and enhance action, and leverage stakeholder connections to improve Shire decision-making.		The Shire is involved in on-going discussions with the community and experts regarding Community Energy opportunities. In addition, the Climate Change Action grants were launched in July to support grass-roots community climate change action. Officers have attended a number of community group meetings to develop stronger connections.	
	5.1 Provide direct support for community and youth groups to pursue climate action. This may include: <ol style="list-style-type: none"> Assistance for planning actions and projects which deliver the goals of this Plan and meet the community's needs and interests Publicly communicating Shire climate activities Providing and receiving feedback on climate action initiatives Provide advice on funding and grants Facilitating training to cope with an increasing anxiety relating to the impacts of climate change 	Ongoing	The Shire has worked with a number of community groups, including: Presentations to Flinders Zero Carbon Community Mornington Peninsula Climate Action Network & in community-wide webinars has helped to communicate the Shire's climate activities and continues to strengthen relationships with community groups Climate Action Grant opened to our community on 1 July and closed 4 August 2021. Successful applications will be announced in Sept 2021. The Shire is hosting a series of workshops in September centred around tackling climate anxiety. These include two free online workshops: "Helping Young People Manage Climate Anxiety– Free online workshop for community leaders" and "Talking to Young People about Climate Change" Another workshop on looking after your mental health for climate/environmental advocates in October	Ongoing

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5.3	Establish a 'Climate Change Community Action Grants' program to fund community groups, youth groups and businesses to reach our climate emergency goals	In Progress	Climate Action Grant opened 1 July and closed 4 August 2021. Successful applications will be announced in Sept 2021	2021-2030
5.4	Collaborate with businesses, farmers and other organisations to support climate action and positive behaviour change, in relation to food security, ecosystem resilience, water, energy, waste and resource reduction and future-impact resilience	In Progress	The Shire, in partnership with the Port Phillip and Westernport Catchment Management Authority, Western Port Landcare Network and Ripe for Change, is hosting an inaugural Climate, Carbon and Natural Capital Field Day on November 17, 2021. The aim is to guide landholders on a clear pathway to practising restorative and regenerative land management practices and participating in the Federal Government's Emissions Reduction Fund and biodiversity schemes.	2021-2030
5.6	Incentivise activities that reduce energy emissions, through rates, rebates or other mechanisms, especially where the return on investment is long	In Progress	The Shire's Solar and Energy Bulk Buy Program launched in June 2021. The program is run in conjunction with Australian Energy Foundation.	2021-2030

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Action 6 – Raise community awareness and foster behaviour change

#	Task wording	Progress	Detail	Time frame
Key focus	Expand and accelerate the Shire's existing program of community engagement, education and climate change awareness to highlight impacts, solutions and responses.		Ongoing development and implementation of education and awareness programs	
6.1	<p>By 2021, review and update the 'Climate Change Community Engagement Strategy 2018' and expand key aspects of the plan:</p> <ul style="list-style-type: none"> a. Build human and social adaptive capacities with community engagement programs that prepare residents and businesses for extreme weather events b. Introduce initiatives that minimise consumption, waste, water and energy use, and promote sustainable food and lifestyle choices c. Assist community groups to develop, support, lead and promote community-led education programs d. Host guest speakers on climate related topics in Libraries and Youth Centres e. Run training programs to equip community leaders to respond issues such as heat wave and heat stroke, climate change impacts on mental health, and sustainability leadership f. Run training programs to equip community leaders to advocate to governments for stronger climate policies and learn how to have effective climate conversations g. Regularly review and improve education programs to be fit for purpose 	In Progress	<p>Implementation of the Climate Change Community Energy Strategy is ongoing, with many actions included in other sections of this report. Key actions in the last 12 months include:</p> <ul style="list-style-type: none"> -Partnering with Australian Energy Foundation on Energy Advice Service and Energy Efficiency Bulk Buy -Climate change webinar "What is it and what can we do about it" delivered in June 2021. -Expanded 'climate change' lesson for schools to cover Kinder - Grade 1 and also for VCAL and Years 11-12 - Solar and Energy Bulk buy. Update of the CC Community Engagement Strategy to be completed in line with the new Council Plan, due to be finalised by the end of 2021. 	2020-2030

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6.2	Facilitate exhibitions and public art on climate change and our natural environment to generate community reflections	In Progress	Design and procurement processes are underway to commission a mural and/or a solar tree to raise awareness of climate change	2021-2022
6.4	Demonstrate and highlight sustainable agricultural and horticultural best practice land management and ecological restoration techniques at the Briars test site and private properties, and use these test sites as an education tool	In Progress	The Shire has connected philanthropists to The Briars to investigate viability of pursuing regenerative farming demonstration farming, community gardens and indigenous and youth land use training programs. The Briars are also using drip irrigation and mulching trees to reduce water evaporation. More than 2,000 trees and shrubs have been planted along the creek. A further 350 trees and shrubs, including the critically endangered Mt Martha Bundy, have been planted in paddocks as shelterbelts.	2021-2025
6.7	Expand on the existing educational programs and displays offered at the Shire's 'Eco Living Display Centre' to encourage sustainable living and build community capacity to respond to extreme weather events.	Ongoing	A number of workshops are planned for spring 2021 including Climate-proof your garden, Keeping Backyard Chooks, Compost like a champion, Make your own sourdough and An Introduction to Hempcrete. Home energy kits have been purchased and will be available for residents to borrow from all Mornington Peninsula libraries after October 2021.	Ongoing

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Action 7 - Grow community resilience to enhanced natural disasters

#	Task wording	Progress	Detail	Time frame
Key focus	Review and expand emergency management plans to ensure that the emergency and recovery response to any future event is swift, effective and enabling.	Ongoing	<ul style="list-style-type: none"> The Shire's Municipal Emergency Management Plan is regularly updated as required by State Government law. A review of the plan has recently been initiated. 	Ongoing
	7.1 Develop tailored adaptation plans for coastal areas based on Marine and Coastal Policy 2020 considering existing infrastructure, cultural heritage and biodiversity values. This involves: <ol style="list-style-type: none"> Identify sites at risk of coastal inundation and erosion, considering storm surge impacts Investigate most appropriate adaptation actions for at-risk sites, applying the 'pathway approach' detailed in the MCP. Support citizen science projects that monitor coastlines and biodiversity. Fund ongoing monitoring and assessment of coastal erosion and sand movement. 	In Progress	<ul style="list-style-type: none"> Mapping from the Western Port Coastal Hazard Assessment which identifies areas subject to coastal hazard risk has been made public via the Shire website on the interactive GIS webpage. Two projects monitoring biodiversity approved for funding from the Port Phillip Bay Fund in 2021/22: the Northern Pacific Sea Star rapid response project; and the Deakin University study into Spider Crab aggregations. Another project that has funding is the Coastsnap project that will require community to monitor coastline change. The Port Phillip Bay Coastal Hazard Assessment is currently underway by DELWP. The date of completion has not been confirmed. The Shire is commencing development of a Coastal Strategy which will assist in prioritising at risk sites and develop adaptation pathways in line with the Marine and Coastal Policy. <p>The Shire is supporting a number of projects that use citizen science as a component of the monitoring of coastlines and biodiversity.</p>	2021-2030

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7.2	Investigate planned retreat options from dangerous areas, especially those at extreme risk of frequent or intense bushfire	Ongoing	The Shire reviews and updates planning overlays on an ongoing basis.	Ongoing
7.3	Partner with Department of Transport and key emergency management organisations to evaluate and improve, road networks and communications infrastructure that facilitate emergency management coordination and access	Ongoing	The Shire's Municipal Emergency Management Plans will continue to be reviewed and updated in collaboration with key stakeholders.	Ongoing
7.4	Review the Victorian Heat Health Plan and develop an 'Extreme Weather Health Plan' that addresses heat waves and extreme cold	Delayed	This project has been delayed due to the re-allocation of staff resources to managing the COVID-19 response.	2022
7.5	Educate all sectors of the community on climate change risks and encourage preparedness.	In progress	A community webinar was held in June 2021 to raise awareness of climate change and the associated risks. In addition, the shire commissioned Jesuit Social Services and RMIT to investigate the impact of climate change on community health and wellbeing. This investigation, now completed, will inform development of the Health & Wellbeing Plan currently being undertaken by the Shire	2021-2025
7.7	Investigate and review the potential inappropriate use of bushfire risk reduction planning scheme exemptions (e.g. Clause 52.12) in low-risk urban settings	Completed	In August 2020, the Bushfire Protection exemptions changed and now apply only to land within designated bushfire prone areas. More info available here: https://www.mornpen.vic.gov.au/Building-Planning/Planning-General-Planning-Information/Tree-and-Vegetation-Removal-on-your-property	2021
7.8	Work with partner agencies to review and implement strategies to manage bushfire risk	Ongoing	The Shire's Municipal Emergency Management Plans will continue to be reviewed and updated in collaboration with key stakeholders.	Ongoing

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7.9	Collaborate with the Municipal Emergency Management Planning Committee to plan for local evacuations and relief during an emergency	Ongoing	Planning for local evacuations and relief during an emergency is occurring on an ongoing basis.	Ongoing
7.10	Investigate the need for expanded relief centres and associated infrastructure and equipment for residents and other climate displaced individuals, including as part of capital works planning	Delayed	Delayed due to COVID-19 implications.	2022
7.12	Assist disaster recovery management by mitigating social risks and harms arising from displacement of people	Ongoing	Ongoing action is being addressed through key strategies such as the Gender Equity Strategy, Positive Ageing Strategy and Health & Wellbeing Plan.	Ongoing
7.13	Plan for potential increases in number and scale of emergencies indirectly resulting from climate change, especially those that affect multiple systems at once	Ongoing	Ongoing action to be part of review of Municipal Emergency Management Plan.	Ongoing

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Action 8 – Plan for changing health and wellbeing impacts

#	Task wording	Progress	Detail	Time frame
Key focus	Review existing public health, social and financial service planning and identify significant gaps, risks and liabilities. Following this review, develop a long-term 'Climate Change Adaption Plan' (CCAP) to build resilience within these sectors.	Ongoing	The Shire is commenced the review of some service planning areas.	Ongoing
8.1	Develop a 'Climate Change Adaptation Plan' to address the full range of climate related health impacts, including risks to specific population cohorts, assessing any gaps in service provision and advocating for action	In Progress	The Shire has partnered with RMIT, Jesuit Social Services and the City of Greater Dandenong to investigate the impacts of climate change on community health and wellbeing. The investigation highlights risks, particularly to vulnerable groups, identifies the gaps on our service provision and highlights areas of focus for health and wellbeing planning. These findings will be incorporated into the Shire's combined Council Plan and Health and Wellbeing Plan and subsequent Health and Wellbeing Annual Action Plans.	2021-2022
8.2	Incorporate relevant parts of the 'Climate Emergency Plan' and the latest climate knowledge in the next 'Municipal Health and Wellbeing Plan'	In Progress	The Shire is currently working on integrating the latest climate change knowledge into the Municipal Health and Wellbeing Plan. This work takes into account the report into the investigation into the health and wellbeing impacts of climate change on the Mornington Peninsula community and the State government advice on integrating climate change into Health and Wellbeing plans.	2021-2022

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8.4	Conduct an education program on climate change health impacts and coping strategies for health practitioners, in collaboration with key stakeholders (e.g. Peninsula Health, Vic Health and DELWP)	In Progress	Initial discussions have been undertaken with Peninsula Health regarding integrating climate change into their future community health and wellbeing planning.	2021-2022
8.6	Evaluate key biosecurity and disease risks, such as the Peninsula's vulnerability to new vector-borne diseases.	Delayed	Delayed due to COVID-19 implications.	2022
8.9	By 2021, develop a robust and measurable 'Social Impact Assessment' report card to set a baseline for the Mornington Peninsula to measure social resilience to climate change.	In Progress	Part of the project to investigate climate change impact on health and wellbeing is to identify key indicators to measure social resilience to climate change.	2021-2022

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Action 9 – Transition to sustainable transport

#	Task wording	Progress	Detail	Time frame
Key focus	Develop an Integrated Transport Plan (ITS) to achieve best practice sustainable transport outcomes with the goal to reduce and then eliminate transport emissions.	In Progress	The Shire has begun developing an Integrated Transport Strategy, with community engagement started through the community visioning (Peninsula 2040) process. Stakeholder engagement will continue through 2021/22, with a draft Strategy planned to be released for broader community engagement this summer.	2021-2022
9.1	Design infrastructure that make active transport options (e.g. walking, cycling) accessible and preferred for movement within a town, particularly to and from schools and economic hubs, through implementation of the 'Pedestrian Access Strategy' and 'RideSafe Strategy'.	Ongoing	Footpath construction continues to roll out in line with the adopted ' Pedestrian Access Strategy '. The Shire is currently revising the ' RideSafe Strategy ' and has started community engagement through the release of a Background Paper.	Ongoing
9.2	Design safer, quieter and cooler streets that appeal to pedestrians and other active transport users through implementation of the 'Pedestrian Access Strategy' and 'RideSafe Strategy'.	In Progress	This task will be incorporated into the Integrated Transport Strategy.	2022

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9.3	Collaborate with neighbouring councils across the South East region to advocate for reliable, attractive, convenient and sustainable public transport options between key activity hubs and Melbourne's CBD	In Progress	Public transport has been identified as a key element of the Integrated Transport Strategy, which is currently underway. This will align with 'Victoria's Bus Plan', which identifies a reform of the bus network for the Mornington Peninsula, and will create opportunities to collaborate with neighbouring councils on this issue.	2021-2025
9.4	Collaborate with the Victorian Government to improve connectivity and integration between local and state transport networks, e.g. sustainable and efficient on-demand public transport	In Progress	Public transport has been identified as a key element of the Integrated Transport Strategy (ITS), which is currently underway. This will align with Victoria's Bus Plan, which identifies a reform of the bus network for the Mornington Peninsula. The Shire will continue discussions with Public Transport Victoria, which begun under the Better Buses campaign.	2021-2025
9.5	Determine the most effective ways for the Shire to support and enable the transition from combustion engine to zero emission vehicles on the Mornington Peninsula	In Progress	The Shire, in collaboration with the South East Councils Climate Change Alliance (SECCCA) and four neighbouring Councils, have commenced a project to develop an <i>Electric Vehicle Charging Roadmap</i> for the southeast region. This project will determine the number and locations of EV charging infrastructure required over the next 10-15 years and Council's role in the expansion of the charging network. The project is due to be completed in June 2022.	2021-2022
9.6	Maximise the efficiency of existing transport infrastructure with the use of smart technology such as car park, traffic and pedestrian flow sensors management technology	In Progress	Smart Parking trials are underway in Rye and Mornington, to test the effectiveness of technology options, and to see if this improves the car parking experience in these areas.	2021-2025

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9.8	Investigate and plan for semi-autonomous and autonomous vehicles and transport services to enable 'Movement as a Service' (MaaS)	In Progress	The Shire has begun investigating opportunities to trial the use of autonomous buses on the Peninsula. In the 2021-22, Council approved \$110,000 for an 'on demand' bus service trial, which will inform future 'smart' technology opportunities.	2021-2030
9.9	Investigate the role for the Shire and the private sector to reduce work-related travel by developing telecommuting infrastructure and shared office spaces across the Peninsula and encouraging people to work from home	Ongoing	The COVID-19 pandemic has forced the Shire and private sector to introduce online working arrangements, and as a result work-related travel has decreased significantly. Detailed work into shared working spaces for Shire officers and private sector is planned to occur in future years.	Ongoing
9.10	Facilitate the installation of storage facilities for active transport at all major activity centres, precincts and sports and recreational facilities	In Progress	This task will be incorporated into the Integrated Transport Strategy and future precinct-scale plans.	2022 - 2030

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Action 10 – Convert to a zero-emissions Shire fleet

#	Task wording	Progress	Detail	Time frame
Key focus	Transition the Shire fleet from internal combustion to zero-emission vehicles, and develop infrastructure guidelines to guide future capital works and precinct scale plans.		The Shire has begun transitioning its fleet to zero emissions vehicles. Infrastructure guidelines are currently in development to inform future capital works to support the Shire's transition to a zero-emission fleet	
	10.1 Decrease the size of the vehicle fleet where possible	In Progress	The size of the Shire's vehicles fleet decreased by 25% in 2020/21.	2021-2025
	10.3 By 2025, all Shire pool vehicles will emit zero-emissions from the tailpipe	In Progress	The Shire has replaced four pool vehicles with electric vehicles (EV). No new vehicles have been introduced over the past 12 months due to the significant reduction in use of the fleet due to COVID-19. Additional charging infrastructure to enable the transition has been installed.	2021-2025
	10.4 By 2030, all Shire fleet vehicles will emit zero-emissions from the tailpipe, where fit for purpose options are available (including utility vehicles)	In Progress	The Shire has replaced a total of six fleet vehicles with EVs (including four pool vehicles). No new vehicles have been introduced over the past 12 months due to the significant reduction in use of the fleet due to COVID-19. Additional charging infrastructure to enable the transition has been installed.	2021-2030

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10.5	Adopt a full life-cycle approach to fleet vehicle selection, i.e. capital and operational expenditure; material usage and waste produced at end-of-life	In Progress	Historically the strategy for fleet management at the Shire has been solely based upon total cost of ownership and some emissions targets. Over the past 12 months, the Shire has been transitioning to a fleet strategy that takes into consideration the following factors: a) adopting strategies to avoid unnecessary consumption and manage demand, for example using GPS utilisation for fleet optimisation b) giving consideration to the purchase of vehicles that can be reused, repaired and recycled, and that include recycled content c) choosing vehicles that have lower maintenance requirements and longer useful life d) minimising environmental impacts over the life of the vehicle by choosing vehicles that have lower adverse impacts associated with their production, use or disposal e) fostering innovation in sustainable products and actively investigating innovative technologies that decreases the reliance upon vehicle usage	2021-2023
10.6	Support working from home and local shared work hubs	Ongoing	Hybrid working arrangements are in place to encourage working from home where appropriate, including digital technical support	Ongoing
10.7	Incorporate electric charge stations in new Shire building developments where appropriate	Ongoing	EV chargers to be installed where appropriate in Council building developments. Further guidance will be provided as part of the Environmentally Sustainable Design Policy.	Ongoing
10.8	Ensure adequate power supply and charging infrastructure at Shire facilities to accommodate the targeted increase in zero-emissions vehicles	In Progress	As part of the Environmentally Sustainable Design Policy, appropriate power supply considerations are included in all relevant Council building developments, to futureproof for EV chargers and electrification.	2021-2025

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Action 11 – Generate a thriving Peninsula-wide natural environment

#	Task wording	Progress	Detail	Time frame
Key focus	Restore and value our natural environment and biodiversity by enhancing land management strategies to support ecosystem resilience and healthy natural landscapes.			

Please see overleaf for next task

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11.1

Fully fund and accelerate the Shire's Biodiversity Conservation Plan (BCP) in its entirety, especially:

- a. Review the Conservation Land Rate to enable continual ecosystem restoration on private land
- b. Provide ongoing support to community conservation projects to build human-nature connections such as delivery of biolinks projects, Gardens for Wildlife and Friends Group working bees
- c. Continue to develop specific operational guidelines to improve biodiversity for maintenance activities e.g. guidelines for fuel reduction
- d. Increase investment in Shire biodiversity management programs
- e. Investigate the potential biodiversity impacts of vegetation removal for bushfire reduction purposes through planning scheme exemptions, particularly in low-risk urban settings.
- f. Develop an urban street tree protection and renewal program, in consultation with residents, that addresses tree canopy cover, and indigenous plant biodiversity and investigates options for a street tree adoption program
- g. Develop a biodiversity protection and management partnership with local Traditional Owners
- h. Build ecosystem resilience to a changing climate through implementation of Strategic Direction 6
- i. Protect existing trees on private land through progressively reviewing and, where appropriate, updating the Planning Scheme

In
Progress

Implementation of the Biodiversity Conservation Plan is ongoing. Key actions in the last year are Biolinks support grant program, bushland reserve preservation, introducing a Trust for Nature rate discount, supporting the Warreen Beek ranger program and supporting Landcare and Friends groups.

2020-
2030

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11.2	By 2022, complete a Green Infrastructure Mapping project, to generate critical data to guide future projects, e.g. urban street tree program, bushfire fuel reduction, ecosystem protection	In Progress	The Shire has engaged a consultant to map and develop a 'Tree Ledger' to map trees across the peninsula using Light Detection and Ranging (LIDAR) and Artificial Intelligence (AI) training. This will be used to guide projects, strategies and decisions.	2020-2021
11.3	Develop and implement a 'Carbon Bio-sequestration Implementation Plan', for local terrestrial revegetation, soil carbon and blue/teal carbon programs	In Progress	The Shire has commenced initial planning and scoping for this task.	2021-2023
11.4	Identify areas vulnerable to erosion, inundation, and storm surge and investigate monitoring and mitigation options: a. Identify vulnerable, priority sites at risk of environmental degradation. Incorporate current research and data e.g. Port Phillip Bay Coastal Hazard Assessment b. Work with relevant partners and stakeholders to protect coastal and marine ecosystems	In Progress	The Shire has partnered with the Port Phillip and Westernport Catchment Management Authority and Ozfish to plant mangroves adjacent the Hastings foreshore landfill to establish a natural buffer between the landfill and Western Port Bay. Further progress will be made following completion of the Port Phillip Bay Coastal Hazard Assessment by the Department of Environment, Land, Water and Planning.	2021-2023

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11.5	Investigate the viability of natural asset valuation tools to influence financial and strategic decision making	In Progress	The Shire, in partnership with Landcare Australia and Port Phillip and Westernport Catchment Management Authority, is trialling Accounting for Nature methods to assess native vegetation and soils on farms. 50 farmers attended a field day at Barragunda Estate in February to learn about the trial and provide feedback on ease of use. This project is one of only three trial demonstrations in Australia and if approved, could allow farmers to claim credits under programs like the Federal Government's Emissions Reduction Fund.	2021-2023
11.6	Benchmark environmental management plans against best practise to identify the most sustainable pest and weed control methods to reduce the need for chemical control	In Progress	The Shire's Natural Systems Team are currently working with Shire contractors to trial an integrated weed management method which would reduce chemical usage.	2021-2025

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Action 12 – Connect communities and nature in precinct planning

#	Task wording	Progress	Detail	Time frame
Key focus	Connect townships and urban environments with essential community services and natural local ecology, so that we can thrive alongside our environment.			
12.2	Implement localised stormwater diversion programs that operate alongside the street tree program and the greening of public spaces	In Progress	Stormwater harvesting and reuse is embedded in the Shire's 'Environmentally Sustainable Design Policy', and will also be included in the draft 'Integrated Water Management (IWM) Plan' and future actions that aim to increase urban canopy cover.	2021-2023
12.3	Strengthen and improve township plans and neighbourhood character studies by prioritising climate emergency objectives; including mitigation, adaptation, reversal and sustainable behaviour change; without compromising protection of human life	Ongoing	Climate emergency objectives are being embedded in all strategies and plans as they are developed, including township plans and neighbourhood character studies.	Ongoing
12.4	By 2022, prepare and adopt a Placemaking Framework that incorporates the environment and climate emergency principles in the quadruple bottom line benefits	In Progress	The Shire has commenced development of the Placemaking Framework. It is expected to be drafted by early - mid 2022.	2021-2022
12.5	Incorporate the 'Principal Pedestrian Network' and other active transportation routes within all masterplans, urban and township plans, and other high level strategic decisions	In Progress	This task will be incorporated into the 'Integrated Transport Strategy'.	2022-2025

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12.6	By 2022, investigate sustainable business opportunities within key commercial and industrial areas which would provide residents and visitors with access to sustainable goods and services	In Progress	This task has been addressed in part by the Shire's development of the 'Food Economy and Agroecology Strategy', which details pathways to improve access to sustainable goods and services within our local agriculture sector. In addition, several initiatives are underway to promote community access to renewable energy and public electric vehicle charging infrastructure. Further support for circular economy practices and opportunities are in development.	2022-2023
12.7	Incorporate 'Integrated Water Management' principles into strategic decision making and town planning, especially relating to alternative water use and waterway, wetland and coastal health	Ongoing	This task will commence following adoption of the 'Integrated Water Management Plan' and the 'Water Sensitive Asset Masterplan'.	Ongoing

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Action 13 – Grow nature-based infrastructure

#	Task wording	Progress	Detail	Time frame
Key focus	Prioritise the use of nature-based solutions and infrastructure to adapt to climate change.			
13.1	Continue to research and implement innovative approaches to green-blue infrastructure for all Shire capital projects, especially relating to coastal defence systems, e.g. mangrove establishment, artificial reefs, biodiversity enhancing seawalls	In Progress	The Shire is undertaking ongoing feasibility investigations and discussions with relevant stakeholders on the establishment of oyster reefs in Port Phillip and Western Port Bay. The establishment of these reefs would support Task 15.6 by diverting oyster shells from landfill. This Shire is also investigating mangrove restoration for coastal protection and carbon sequestration.	2021-2025
13.3	Work with Parks Victoria, Marine Safety Victoria, Better Boating Victoria, DELWP and the community to implement new boating and coastal recreation policies to protect coastal and marine habitat from the detrimental impacts of water transport, vessel mooring and sports and recreational activities	Ongoing	Over the last financial year, the Shire's Coastal Planning team have advocated to the Victorian Government to implement environmentally sustainable outcomes for our coastal and marine habitat. These include letters conveying community feedback to the Hon Melissa Horne, Minister for Fishing & Boating, calling for amended fishing practices for migratory Spider Crabs and the phased replacement of seagrass-damaging mooring systems with suitable alternatives in high-value ecosystems.	Ongoing

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13.4	Use low-water demand turf for sporting fields, and prioritise indigenous species for other green open spaces	Ongoing	The Shire's 'Environmental Sustainability Design Policy' includes an initiative for the Shire's open spaces and sports fields to use low-water demand turf and greenery where no sustainable water source is available.	Ongoing
13.5	Collaborate with and support research partners to work locally in nature-based infrastructure, and to integrate their findings into the Shire's planning and strategic decision making.	In Progress	The Shire is currently engaging in preliminary discussions with relevant stakeholders regarding potential seaweed production, with circular economy and carbon sequestration benefits.	2021-2025

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Action 14 – Optimise use and management of our water				
#	Task wording	Progress	Detail	Time frame
Key focus	Enhance the liveability, resilience and prosperity of our community and environment through integrated water planning and management		The Shire's 'Integrated Water Management Plan' is currently in development. It is currently out for community consultation and will be presented to Council for adoption in late 2021. This will be the guiding strategy for managing water resources on the Peninsula.	
	14.1 Increase use of alternative water sources (e.g. recycled water and stormwater) to support: a. green open spaces (sport fields, parks, gardens) and tree canopy growth, which will provide urban cooling as well as support community health and wellbeing b. Increase use of alternative water sources to support emergency management, agriculture, business and tourism growth c. Increase access to recycled water at strategic locations to support agriculture, industry, fire-fighting and other beneficial uses	In Progress	A number of recycled water schemes are either under investigation by the Shire or in the implementation stage. This includes the construction of a Class A recycled water network at the Briars, a feasibility study on the Tyabb/Somerville Recycled Water Scheme as well as the Hinterland Environmental Water Scheme. A 'Water Sensitive Asset Masterplan' is currently being developed to identify the best opportunities for siting medium and large-scale Water Sensitive Urban Design assets. The objectives of this masterplan include stormwater treatment, and alternative water supply for green open spaces.	2021-2030
	14.2 Empower the community to improve water cycle management through highlighting initiatives such as raingardens, water efficient products, water saving practices and leak detection monitoring	Ongoing	The Shire's 'Water' webpage is regularly updated with information on water saving initiatives, stormwater and wastewater management.	Ongoing

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14.3	Increase number of sewer connections in high risk catchments to eliminate septic system impacts on the environment	In Progress	An initial assessment by Shire officers has concluded that reticulated sewerage is required to address the significant public health and environmental risks posed by septic systems in the townships of Arthurs Seat, Red Hill, Red Hill South and Merricks. A submission has been made to South East Water (SEW) to assist with the current review of the 'Backlog Sewer Program', with a recommendation for the Shire and SEW to jointly advocate for State Government sewer funding.	2021-2030
14.4	Improve stormwater drainage infrastructure to reduce flooding impacts, protect life, properties and assets from flooding and increase stormwater use as an urban resource	In Progress	The Shire's 'Flood Resilience and Integrated Stormwater Management Strategy' is currently in development and will be presented to Council for adoption in the last quarter of 2021. The implementation of this Strategy will help improve stormwater drainage infrastructure.	2020-2025
14.5	Increase stormwater harvesting initiatives to protect the environment, enable capture and reuse of this resource, and reduce nuisance flooding	In Progress	The Shire is currently developing the 'Water Sensitive Asset Masterplan' to identify the best opportunities for siting medium and large-scale Water Sensitive Urban Design assets. The identification of stormwater harvesting opportunities is included in the scope of works.	2021-2030
14.6	Promote best practice stormwater management through the planning scheme, by applying existing clauses as well as new planning scheme amendments such as the 'ESD Planning Policy'	In Progress	The Shire continues to work with developers on embedding best practice stormwater management in private developments.	2021-2025
14.7	Integrate Water Sensitive Urban Design (WSUD) principles alongside and as part of the ESD integration into Shire capital works	In Progress	The Shire continues to embed Integrated Water Management objectives in Shire buildings and civil works.	2020-2025

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14.8	Build new and ensure ongoing effectiveness of existing large scale WSUD assets such as wetlands to protect the health of our waterways from the impacts of increasing urban development	In Progress	The Shire is currently developing the 'Water Sensitive Asset Masterplan' to identify the best opportunities for siting medium and large-scale Water Sensitive Urban Design assets. The objectives of this masterplan include stormwater treatment and alternative water supply for green open spaces.	2021-2022
14.9	Use the Briars as a demonstration and research site to establish the viability of recycled water for ecological regeneration and agriculture, as a fit for purpose alternative water source to mains or rainwater	In Progress	The construction of a bioinfiltration basin at Rye foreshore is underway with completion expected in October 2021. The concept design for Stages 1 and 2 have been completed for the supply of Class A recycled water to the Briars and neighbouring sites. The scheme aims to supply 2.6ML/day of Class A recycled water from the Mt Martha Recycling Plant to support the creation of a 'Green Dreaming' precinct at the Briars (Stage 1) and 1.5ML/day to the neighbouring sites (Stage 2). This project is delivered in collaboration with South East Water and co-funded by the State Government.	2021-2025

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Action 15 – Enhance sustainable agriculture and food systems

#	Task wording	Progress	Detail	Time frame
Key focus	Support sustainable businesses and landholders, and guide consumer choices to create a sustainable and regenerative food system informed by accurate and local climate data.	In Progress	The Shire's 'Food Economy & Agroecology Strategy' is currently in development and will be taken to Council for adoption in late 2021. The Strategy aims to support farmers and food producers to transition to regenerative practices and supports the Shire's emissions targets.	
15.1	Deliver the actions set out in the Green Wedge Management Plan that align with environmentally beneficial outcomes for the local food economy	Ongoing	Implementation of the Shire's 'Green Wedge Management Plan' is underway and is aligned with the upcoming 'Food Economy & Agroecology Strategy'.	Ongoing
15.2	By 2021, review the Agricultural Rate and Conservation Land Rate to incentivise transitions to sustainable agriculture. Agricultural Rate priorities could include: a. Agroecological and regenerative farming practices b. Incorporating indigenous agricultural practices and crops c. Sequestering soil carbon d. Improving biodiversity outcomes on farms	In Progress	Reviews of the Shire's Agricultural and Conservation land rates are both highlighted as actions in our 'Food Economy and Agroecology Strategy'. The Strategy is expected to be presented to Council for adoption in December 2021. The review of these rates is currently in planning.	2022

15.3	<p>Through consultation with local agriculture and food manufacturing sector, develop and deliver a 'Food Economy and Agroecology Strategy':</p> <ol style="list-style-type: none"> Identify ecological and climatic impacts of and opportunities for local food industries Support the uptake of regenerative farming practices and showcase businesses using sustainable, regenerative food production methods Forecast sustainable economic and production opportunities and threats Encourage and enable circular economy practices amongst local businesses Determine regulatory barriers to business growth and diversification Forecast opportunities and threats for food production and security, and devise mitigation and adaptation strategies to help businesses Work collaboratively with partner organisations to advocate for recycled water access to key agricultural areas within the region 	In Progress	<p>The Shire has developed a draft Food Economy and Agroecology Strategy to guide and support the local agricultural sector to transition to more sustainable agricultural practices. The consultants brief addressed all points identified under this task and makes recommendations on a suite of activities designed to guide farmers to respond to opportunities in the green economy. It also makes recommendations for the Shire to investigate ways to support sustainable farming like investigating circular economy opportunities, improving retail access to a local food system and improving education and participation in the sector.</p>	2020-2021
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15.5	<p>Promote and improve access to sustainably produced local food for farmers, residents, visitors, and vulnerable communities, through extending the Mornington Peninsula Produce Program, implementing the Municipal Public Health and Wellbeing Plan as it relates to sustainable food options, and strengthening connections between producers and retailers</p>	In Progress	<p>Promoting and improving access to sustainably produced local food will be partially addressed by and included in the 'Food Economy & Agroecology Strategy' (Task 15.3). The 'Food for Change' social enterprise has begun farming a leased area at The Briars. They will grow and distribute fresh fruit, herbs and vegetables to families across the Peninsula, with the help of volunteers and aid organisations. As well as growing their own produce, Food for Change connects with local growers and rescues food from local supermarkets, giving our most vulnerable communities access to a greater range of healthy food.</p> <p>The farm area of The Briars 'Green Dreaming' precinct will become a food hub with links to local growers, food rescue organisations and local emergency relief providers. This work links to the Shire's commitment to addressing food insecurity and encouraging healthy eating as outlined in its Municipal Public Health and Wellbeing Plan.</p>	2021-2023
15.6	<p>Work towards a circular economy by investigating opportunities to divert local organic waste streams from landfill, to contribute to the creation of valuable by-products</p>	In Progress	<p>Opportunities to divert local organic waste were investigated by the Shire under the Materials Flow Analysis (Task 17.4). We are currently investigating opportunities for processing organic waste locally, including biodigesters.</p>	2021-2025

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15.7	Investigate options such as carbon farming to promote the diversification and expansion of revenue streams for farmers on the Peninsula	Ongoing	The Shire is planning to team with the Port Phillip and Western Port Catchment Management Authority and the Bass Coast Landcare Network to host a 'Climate, Carbon and Natural Capital' Field Day in Nov 2021. We are currently clarifying pathways to participate in the Federal Government's Carbon Credit scheme. This task is supported by Task 5.4.	Ongoing
15.8	Implement community and landowner engagement and capacity-building programs to encourage sustainable agriculture, sustainable land management, and to maximise restoration opportunities, such as climate data access, land and biodiversity stewardship, partnerships with farming networks and Traditional Owners	Ongoing	The Shire's Biolinks grant distributed \$120,000 for restoration projects across the peninsula. In 2020-21, the Shire worked with Bunurong Land Council, Trust for Nature and Holmesglen Institute to support the Warreen Beek Ranger program. This program assists Traditional Owners to gain skills to work on country in the greater Melbourne area, whilst gaining accreditation in Conservation and Land Management. The program will recommence in January 2022. Landcare delivered a number of educational sessions for landholders throughout the year. The Natural Systems Team reviewed the Conservation Land Rebate (CLR), audited 150 properties and plans to provide CLR land managers with property management plan templates. This task is supported by Task 5.4 and will be incorporated into 'Food Economy and Agroecology Strategy' (FE&AS) review.	Ongoing

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Action 16 – Enhance environmentally sustainable design

#	Task wording	Progress	Detail	Time frame
Key focus	Introduce Environmentally Sustainable Design (ESD) and climate risk impact considerations into the Mornington Peninsula Shire Planning Scheme and capital works programs. This will apply to both Shire-owned and community buildings and assets.			
16.1	By 2021, develop and implement an ESD Policy for Shire buildings and civil works, encompassing all new builds, extensions, refurbishments, fit outs and civil works, using tools such as SECCCA's 'Brief Ezy'	In Progress	The Environmentally Sustainable Design (ESD) Policy for Council Buildings and Civil Works adopted by Council on 20th Sept 2020. It is currently being implemented. A review and update of the Policy will occur late 2021/early 2022.	2020-2021
16.2	Advocate to the Minister for Planning, for expedited authorisation of proposed amendment C232morn to introduce a local ESD policy to the Planning Scheme and ensure the Shire is appropriately resourced to effectively implement the new Planning Scheme policy	In Progress	Planning Scheme Amendment C232morn proposes to introduce a Local Planning Policy into the Mornington Peninsula Planning Scheme to provide guidance for Environmentally Sustainable Development (ESD). The purpose of the Policy is to ensure that development on the Mornington Peninsula achieves best practice in environmental sustainability, from the design stage through to construction and operation. Amendment C232morn was authorised on 9th March 2021, however it is currently on hold pending the Department of Environment, Land, Water and Planning (DELWP)'s project to introduce ESD planning provisions state-wide.	2021-2022

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16.3	Incorporate climate projections into the 'Asset Management Framework' to improve future decision making	In Progress	Climate change considerations will be embedded into the Shire's asset management plans and strategies as they are developed.	2021-2025
16.4	Provide residents, developers and builders with the resources to understand and adapt practices and to incorporate sustainability principles and climate change impacts	In Progress	The Shire's Eco Living Display Centre showcases numerous up-to-date residential sustainability initiatives and provides a free consultation service to support the inclusion of sustainable design principles within building projects. Education and support resources are in development to support developers, architects and builders with information and resources through the planning process.	2021-2023
16.5	Incentivise early adoption of ESD in private development	In Progress	The Shire is currently developing education and support resources to align to 'C232morn' or an equivalent planning amendment.	2021-2023
16.6	Continue to partner with CASBE to support the continual improvement of best practice regarding ESD and WSUD policy and implementation, e.g. through the 'Elevating Targets' project	In Progress	The Shire signed up to be a member of the 'Council Alliance for a Sustainable Built Environment' (CASBE) in April 2021. The Shire also signed onto CASBE's 'Elevating Targets' project, which seeks to investigate and build an evidence base for zero carbon homes and may lead to a planning amendment.	2021-2025

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Action 17 – Transition to a circular economy

#	Task wording	Progress	Detail	Time frame
Key focus	Fully support the Shire's Beyond Zero Waste Strategy and embed circular economy principles within the Shire, including promoting local resource recovery initiatives and businesses.			
	<p>Adopt and fast-track the Beyond Zero Waste Strategy, which will:</p> <ul style="list-style-type: none"> a. Achieve 100% diversion from landfill by 2030 b. Introduce the FOGO collection system across the municipality c. Create opportunities to explore and test new and emerging technology and infrastructure to support improved recycling and reuse d. Create opportunities to explore how a circular economy can support the development of new, local industries and economic opportunities e. Actively collaborate with other councils and the state government to enhance waste management systems and infrastructure f. Work with and educate the community to encourage waste avoidance, change purchasing behaviour, improve recycling and normalise sharing and reuse g. Heighten controls around minimising the contamination of recyclable and compostable waste streams h. Work with and educate local businesses to encourage and support circular economy practices, e.g. implementing the 'Single Use Plastic Free Policy', and promoting state and federal programs to minimise business waste and improve recycling i. Investigate levers to incentivise waste avoidance and local circular economies in businesses, agriculture and industry. j. Support the promotion and delivery of Federal and State commercial initiatives and programs that minimises business waste and improves recycling 	Ongoing	Implementation of the Shire's 'Beyond Zero Waste Strategy' is underway, with the Food Organics, Garden Organics (FOGO) Stage 1 initiative commenced, the adoption of the 'Single Use Plastics Policy' and the 'Single Use Plastics' grant program underway and the adoption of the 'Waste Contamination Policy'. Further reporting will be done through the Beyond Zero Waste Strategy (BZWS).	Ongoing
17.1				

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17.2	Drive a cultural change away from consumerism and towards a circular economy model of conscious consumption, where waste is eliminated, and all materials are used as a valuable resource	Ongoing	This is an ongoing task, directly tied to the Shire's Beyond Zero Waste Strategy. The Shire has recently employed two Waste Education Officers to deliver this task and promote a cultural shift towards circular economy.	Ongoing
17.3	Continue active participation in the Metropolitan Waste and Resource Recovery Group (MWRRG) procurement process of alternative waste treatment, ensuring alignment with circular economy principles	In Progress	Involvement in the Metropolitan Waste and Resource Recovery Group (MWRRG) procurement process is ongoing.	2020-2025
17.4	Conduct and publish a materials flow analysis of the Peninsula to: a. Identify waste streams and encourage local reuse of materials, e.g. organic waste, bird netting, plastic silage wrap b. Encourage existing and new industries and businesses to reprocess and recycle waste on or near the peninsula c. Support businesses to improve resource efficiency, waste reduction and procurement choices of raw materials and packaging	Completed	The Shire has conducted a 'Materials Flow Analysis' and produced a final report for officers. A summary will be circulated to community stakeholders to align with grant opportunities. Recommended actions from this report will influence the next update of the Climate Emergency Plan.	2021

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Action 18 – Embed sustainability and circular economy into the Shire’s procurement

#	Task wording	Progress	Detail	Time frame
Key focus	Improve product and services procurement to reflect and set best practice sustainability.			
18.1	Set sustainability criteria in all procurement evaluation e.g. emissions generated	In Progress	The Shire is collaborating with key stakeholders to progressively update contracts and our Procurement Policy.	2021-2022
18.2	Update standard contracts to include provision of all contractor and product emissions data, including fuel use	In Progress	The Shire’s Procurement Policy is currently being reviewed and an updated version, containing enhanced environmental objectives will to be taken to Council for endorsement in late 2021. Concurrently, standard contracts are being updated to include provision to gather data on contractor emissions and fuel use.	2021-2022
18.4	Incorporate sustainability requirements into future maintenance contracts, such as zero-emissions vehicles and plant, circular economy practices, net zero emissions and soil improvement methodologies	In Progress	The Shire’s next major maintenance contracts will commence in 2023. Planning of the scope and requirements of the contracts is currently underway address sustainability.	2021-2023
18.5	Develop a sustainable products and materials register to assist procurement decisions, including reactive and proactive maintenance	In Progress	The Shire is currently developing internal standards to support officers in making sustainable design and procurement decisions in capital works projects.	2020-2025

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18.6	Set ambitious targets for recycled content use for Shire operations, including stationery and consumables as well as construction and other civil works	In Progress	The Shire's Procurement Policy is currently being reviewed where the addition on conditions to promote sustainability, including the use of recycled content, will be considered. The policy will be taken to Council for endorsement in late 2021.	2021-2022
18.8	Embed Climate Emergency principles into the draft 'Healthy Food and Drink Policy' and all future corporate catering contracts, prioritising sustainably grown, local, plant-based produce, and eliminate food and packaging waste for Shire-run and permitted events	Delayed	Review of the Policy and catering contracts have been placed on hold due to COVID-19.	2022-2023
18.9	Embed sustainability within all Shire-run and permitted events on the Peninsula to implement, demonstrate and communicate cultural and behavioural change, by: a. Renewing the 'Events Policy' in 2021 to incentivise sustainable events, including a roadmap for future Policy updates b. Updating the 'Sustainable Events Toolkit' to improve event management practices and ensure that the Shire incorporates advocacy and education	Delayed	This task has not yet been prioritised due to the small number of events currently planned because of COVID-19.	2022-2024

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Action 19 – Prioritise sustainable investment

#	Task wording	Progress	Detail	Time frame
Key focus	Update the Shire’s ‘Investment Policy’ and other banking and financial standards to ensure that by 2023 our financial operations are fully divested from industries that cause ecological, social, economic and humanitarian harm.		A review of the Shire’s Investment Policy will take place closer to the target date of 2023.	
19.4	Provide education and resources for all residents to make informed choices about sustainable banking, investment and divestment, e.g. training/webinars	In Progress	The Shire is currently planning to host a ‘Sustainable investment’ webinar in late 2021 or early 2022.	2021-2022

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Action 20 – Strengthen and integrate climate data into decision-making

#	Task wording	Progress	Detail	Time frame
Key focus	Research, synthesise and integrate climatic data projections and risks into the Shire's Geographic Information System (GIS) and other data management platforms.		The best available data on flood and bushfire risk is currently integrated into the Shire's Geographic Information System (GIS). Further climate risk data will be integrated as data improves.	
	20.1 Access, or conduct where necessary, detailed modelling to identify erosion and inundation impacts in key coastal areas, assisting in strategic planning. a. Derive baseline data to develop a strategy to mitigate damage and risk for community and Shire property, such as the use of nature-based infrastructure and incorporation of blue carbon projects b. Advocate where required for access to state government modelling resources	Ongoing	Improving flooding, erosion and inundation data is an ongoing project within the Shire. The Flood Resilience and Integrated Stormwater Management Strategy will be presented to Council late 2021. The Department of Environment, Land, Water and Planning (DELWP) are currently developing the Port Phillip Bay Coastal Hazard Assessment.	Ongoing

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20.3

Undertake regular review and monitoring of relevant climate data and use to inform strategic planning

- Improve understanding of local weather and climate changes by investigating historical weather records, utilizing existing weather stations on the Peninsula, and assessing the viability and need for more automatic weather stations on the Peninsula
- Review relevant data and learnings from other municipalities, cities and government organisations. Investigate data sharing partnerships and sharing platforms
- Consolidate existing and new data into standardised format, facilitating access and distribution for users
- Make climate data available to community, emphasising education as it pertains to climate change adaptation and mitigation

Ongoing

The Shire is working with the Department of Environment, Land, Water and Planning (DELWP), the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and the Bureau of Meteorology (BOM) to source climate change projections specific to the Mornington Peninsula.

Ongoing

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Action 21 – Understand climate risks on assets and services

#	Task wording	Progress	Detail	Time frame
	Incorporate climate change risks and controls into projects, long-term plans and strategies for all Shire services and assets, as well as the Shire's natural environment.		The Shire is currently updating plans and strategies as they are created to fully incorporate climate change risks and controls.	
21.1	Annually review the 'Climate Change Risk Register', incorporating current Victorian Climate Projections	Delayed	Delayed due to COVID-19 implications and resourcing.	2022
21.2	<p>Conduct regular vulnerability assessments and financial risk modelling of Shire services and assets, both built and natural, based on the latest climate change projections. Consider the escalating impacts of:</p> <ul style="list-style-type: none"> a. Coastal inundation and sea level rise b. Heatwaves on service delivery c. Intensified rainstorm and wind events d. Humidity and temperature impacts on building materials e. Soil contraction, groundwater availability and secondary consequences caused by increasing incidence and severity of droughts f. Increased incidence and severity of bushfires 	Ongoing	Over the past 12 months, the Shire has participated in a project with the South East Councils Climate Change Alliance (SECCCA) to develop a framework to assess the vulnerability of Shire assets. As part of this project, the Shire has begun conducting vulnerability assessments on its road, drainage and building assets against various climate project scenarios. This project will be completed in late 2021.	Ongoing

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21.3	<p>Elevate the use of best available climate science projections into planning and delivery to:</p> <ul style="list-style-type: none"> a. Minimise emergency response costs through the identification and adoption of climate adaptation practices b. Ensure all new projects and rebuilds include a climate risk evaluation and impact statement, along with mitigation measures 	Ongoing	<p>The Shire adopted the Environmentally Sustainable Design Policy in late 2020. This policy includes climate risk considerations. The Shire will continue to embed climate science projections into planning and delivery.</p>	Ongoing
21.6	<p>Increase human resources and in-house expertise for climate change impact and risk management, particularly regarding coastal risks</p>	Ongoing	<p>Expertise on climate change impact and risk management is embedded within relevant Shire positions and will be strengthened over time. Capacity building is an ongoing in collaboration with the Department of Environment, Land Water and Planning (DELWP) and the Association of Bayside Municipalities (ABM).</p>	Ongoing
21.7	<p>Assess liability risks when considering planning permits in high-risk areas, particularly those areas at risk from coastal erosion, inundation and storm surges. Investigate changes to insurance and loan application processes as they pertain to increasing climate risk</p>	Ongoing	<p>Planning permits for areas identified to be at risk are required to complete site-specific hazard assessments and to outline adaptation actions that are achievable within the development area. It is anticipated that the Coastal Planning Strategy may develop this further.</p>	Ongoing
21.8	<p>Produce a report on the impacts of not acting to address climate change and the risks of continuing business-as-usual.</p>	In Progress	<p>Preliminary scoping of the details of this report has commenced.</p>	2022-2023

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Progress update – tasks not yet due to start

Table 4: Tasks not yet due to start

#	Task wording	Timeframe
1.6	Identify and coordinate a systematic review of relevant existing Shire strategies, plans and policies and related resources to incorporate climate emergency principles	2022-2025
1.12	Lead initiatives in cultural awareness and change, particularly regarding connectedness to land and waters, indigenous culture and practices	Ongoing
3.3	By 2023, the Shire will source all electricity from renewable generation	2020-2023
4.7	Undertake planning scheme amendments to protect buildings against the impacts of climate change, including 'Land Subject to Inundation Overlay' (LSIO), 'Special Building Overlay' (SBO), Bushfire Management Overlay (BMO) and Erosion Management Overlay (EMO).	2022-2024
5.2	Support community volunteers with access to training and networks to build skills in communication, leadership and advocacy.	Ongoing
5.5	Identify, act and amplify shared advocacy goals between the Shire and the community (groups and businesses), by facilitating networking opportunities and providing information and education sessions on key topics	2023-2030
5.7	Investigate mechanisms to increase renewables energy supply in short stay accommodation as part of the review of the Shire's 'Short Stay Rental Accommodation' Local Law	2022-2024
6.3	Develop activities and programs that nurture creativity and culture to showcase our unique environment, advocate for its protection and generate long-term behavioural change	2023-2025
6.5	Conduct an education campaign to raise awareness of the benefits and availability of sustainable food choices utilising resources such as Best Bites, Mornington Peninsula Produce and food rescue programs.	2023-2025
6.6	Collaborate with Mornington Peninsula Business to develop a long-term plan to implement far-reaching behaviour change programs and campaigns for businesses, community groups and individuals.	2022-2030
7.6	Raise community awareness of the Municipal Emergency Management Plan	2023-2025
7.11	Incorporate emergency management planning in the Shire's maintenance works, capital works planning and all permitted public events	2022-2025

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8.3	Work with businesses to develop plans to cope with power shortages and blackouts, particularly where refrigeration, heating and cooling have direct impacts on public health	2023-2025
8.5	Conduct township-specific community engagement to raise awareness of locational impacts, and assist preparedness	2022-2025
8.7	Identify private industries and services at risk from climate-related social and economic pressures, and collaborate to develop appropriate responses	2022-2025
8.8	Collaborate with public and private health professionals to advocate for a response to the mental health impacts from climate change	2022-2025
9.7	Increase engagement to educate the community on the benefits of sustainable and active transport	2022-2025
9.11	Facilitate the installation of electric vehicle charging infrastructure at all major activity centres	2022-2030
10.2	Encourage Shire staff to minimise vehicle use, and choose alternative options such as public transport, e-bikes and carpooling or local video conferencing	2022-2025
12.1	Set canopy cover targets for specific urban areas vulnerable to the urban heat island effect or those that offer opportunities to promote walking and cycling. These localised targets will align with the Peninsula-wide canopy cover target	2022-2023
12.8	Consider, and incorporate where possible, blue (marine and coastal) and teal (wetlands) carbon management opportunities on private or public land in urban planning design	2023-2025
13.2	Develop a sustainable infrastructure investment and valuation framework for green-blue infrastructure which considers the low maintenance costs, comparative amenity values, benefits for fisheries, sequestration potential, indefinite future functionality, and ecosystem benefits	2022-2023
13.6	By 2023, publish easy-to-read guides for residents and businesses on the Peninsula to incorporate biolinks (habitat corridors), green walls and other green-blue infrastructure into existing and new developments	2022-2023
15.4	Use the Briars as a demonstration site for regenerative agriculture and opportunity for agricultural research and development, particularly to: <ul style="list-style-type: none"> a. Gather and share locally relevant weather data b. Adapt to a changing climate by researching and trialling new crops c. Grow indigenous crops as commercially viable competitors d. Determine opportunities to increase biodiversity 	2022-2025
16.7	Develop a 2030 ESD roadmap, detailing the Shire's future direction of both the internal policy and any potential subsequent Planning Scheme amendments, focussing on location-specific climate change risk mitigation, green-blue infrastructure integration, township-scale planning and other innovative technologies and design philosophies.	2022-2025

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17.5	Investigate and implement new and emerging technology and nature-based solutions to enhance landfill management and resource recovery, especially where available locally	2022-2030
18.3	Review existing contracts to encourage innovation and greening of the supply chain	2022-2025
18.7	Provide ongoing education and training for staff and contractors to understand short and long-term impacts of procurement decisions	2022-2025
19.1	Review banking and investment policies to divest the Shire's from activities that cause or promote environmental harm	2022-2025
19.2	Implement new criteria relating to environmental sustainability, human rights and ethical concerns	2022-2025
19.3	Inform current banking partners of the upcoming change in policy, and the new criteria for future contracts.	2022-2025
20.2	Partner with the Association of Bayside Municipalities and the State Government and seek to introduce provisions to the Planning Scheme to address predicted sea level rise and storm surge induced erosion, inundation and groundwater impacts identified by the Port Phillip Bay Coastal Hazard Assessment.	2022-2025
20.4	Investigate the role of artificial intelligence (AI) in the collection, analysis, interpretation and communication of data, especially relating to key activities within this Plan Work with community, government organisations and the private sector to ensure that risk mapping is accurate according to latest projections	2022-2025
20.5	a. Bushfire Management Overlay (BMO), Victorian Fire Risk Register (VFRR) and Bushfire Prone Areas (BPAs) accurate and consolidated in conjunction with the Department of Environment, Land, Water and Planning (DELWP) and the Country Fire Authority (CFA). b. Consolidate relevant risk mapping with local water authorities, South East Water (SEW) and Melbourne Water	2022-2025
20.6	In partnership with community, research economic impacts to local industries to advise businesses of future threats and opportunities	2023 - 2027
21.4	Develop standards and guidelines for building and maintaining Shire built and natural assets, and embed these into Shire programs and practices	2022-2025
21.5	Investigate avenues to efficiently integrate climate impact reporting into existing Shire reporting mechanisms	2022-2025
21.9	Implement 'Australian Accounting Standards Board (AASB) Practice Statement 2' requirements into accounts reporting to ensure climate related risks are considered in the context of financial statements	2022-2025