

Climate Emergency Plan progress report

2022



**MORNINGTON
PENINSULA**
Shire

Climate Emergency Plan Progress Report 2022



Acknowledgement of Country

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

Climate Emergency Plan Progress Report 2022

Executive summary

The Climate Emergency Plan Progress Report 2022 is Mornington Peninsula Shire's (the Shire) second annual report since adoption of the Climate Emergency Plan (the Plan) on 25 August 2020. The Plan is an ambitious 10-year plan outlining the Shire's response to climate change and includes a broad range of actions, requiring collaboration by the community, the Shire and other levels of government to achieve. The Plan is divided into seven key summits with associated targets and a range of tasks that sit under 21 actions. This report provides a summary of progress against each summit target and all tasks in the Plan.

Where are we now?

Since adoption of the Plan, the Shire has been embedding climate action in our planning and activities through policies, strategies, projects, services and decision making. Targets and actions in the Plan have been addressed by the relevant business units within the Shire, embedding climate emergency action across the whole organisation. To date, 83% of tasks have commenced or been completed but some actions are reliant on the development of new technologies, models and markets and are outside of the Shire's sphere of control.

The Shire has made significant progress since the last progress report in 2022. Of the 172 tasks of our Plan:

- 9 (5%) of tasks have been completed
- 134 (78%) of tasks have commenced (In progress or ongoing)
- 24 (14%) are not due to start
- 5 (3%) were delayed due to COVID-19 and other unforeseen circumstances.

Detailed reporting against each target and task can be found in Tables 3-10.

Progress Summary

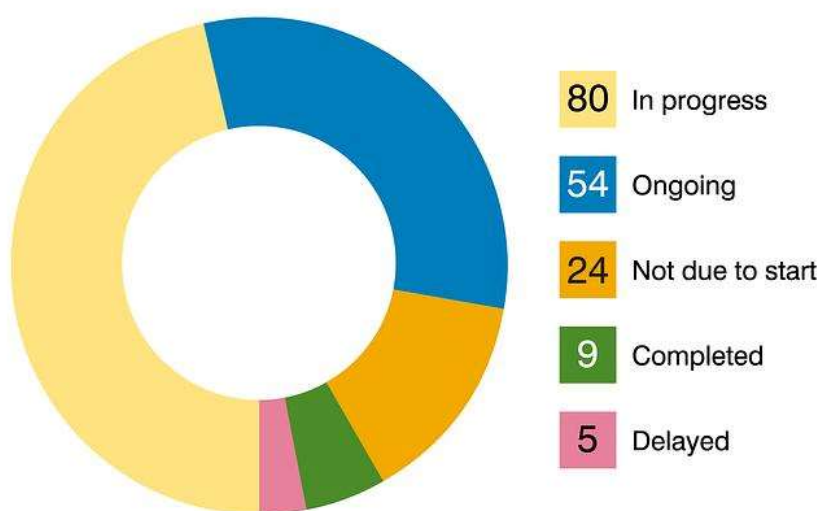


Figure 1: Progress of tasks within the Climate Emergency Plan.

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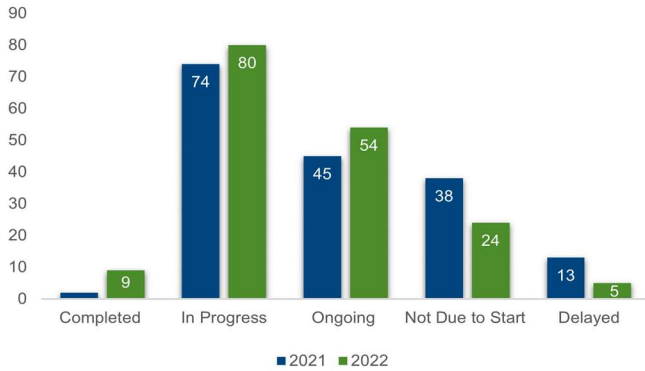


Figure 2. Progress of tasks within the Climate Emergency Plan in 2021 compared to 2022.

A look at our goals

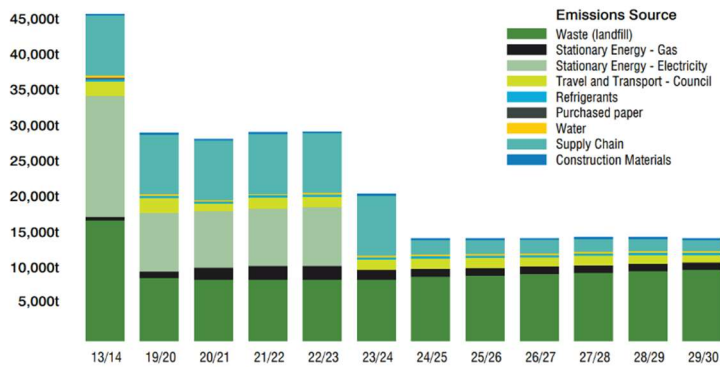


Figure 3. Projections of the Shire's operational carbon emissions. (Reporting years from 21/22 onwards are projections based on a range of assumptions).

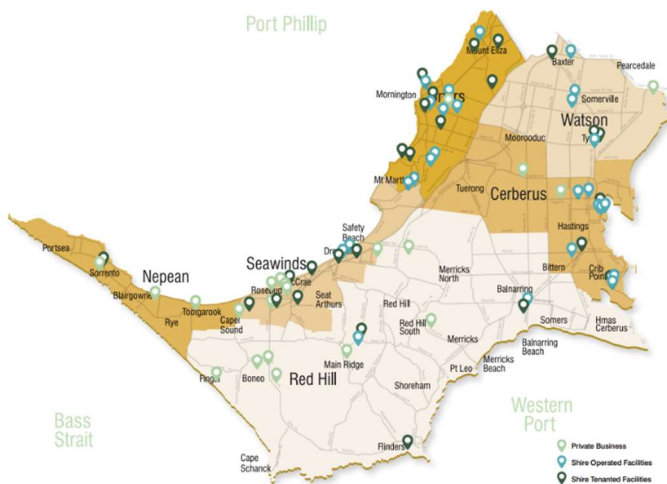


Figure 4. Solar installations resulting from Shire programs. A total capacity of 2.7 MW reduces carbon emissions by over 3,500 tonnes per year.

Climate Emergency Plan Progress Report 2022

Key achievements from the last 12 months

- Establishment of the Climate Oversight Group (COG)
- Continued advocacy to all levels of government and industry with several submissions including to the State Government on the 2035 Interim Emissions Targets (June 2022)
- The Shire has now installed 1.26 MW of solar PV on Shire operated buildings, of which 84 kW was installed in the past year, as well as four hot water heat pumps and seven electric vehicle chargers. In addition, 112 streetlights were upgraded to energy efficient LED lights, with 4000 more planned for upgrade
- 21% of buildings on the Peninsula now have solar panels installed. 1976 solar PV systems were installed on the Peninsula in 2021/22, adding an additional 17.8MW of renewable energy generation capacity
- 205 business energy upgrades undertaken through the Small Business Energy Saver program, resulting in \$175,847 annual savings to business and avoiding 628 tonnes of annual emissions
- Two new [Environmental Upgrade Finance \(EUF\)](#) agreements signed in 2021/22. Local businesses have borrowed over \$2 million through EUF, saving of \$279,888 and an annual reduction of 1,695 tonnes of CO₂-e. The Shire has now signed the most EUF's compared to any council across Victoria
- 89 household energy assessments and 79 energy upgrades through the Energy Savvy Upgrades program, resulting in an annual emission saving of 56.6 tonnes of CO₂-e.
- 350 energy consultations for residents through the Energy Advice Service and 66 energy upgrades through the Solar and Energy Bulk Buy program, resulting in the avoidance of 437 tonnes of CO₂-equivalent annual emissions
- Awarded a total of 19 climate action grants totalling \$142,315 to 19 community- led initiatives
- Direct support for DELWP's Energy Resilience Study which is investigating energy resilience solutions for 24 towns at high risk of prolonged energy disruption due to extreme weather events
- Increased the Shire's fleet to six electric vehicles, with three more due to arrive in 2023. We have also reduced our total fleet by 41% (88 vehicles) since 2020
- 73 hectares of biolinks created and 23,000 trees and shrubs planted, helping to sequester carbon and deliver on the objectives of the [Biodiversity Conservation Plan \(2018\)](#)
- Developed a Tree Ledger GIS application, which will be used to guide capital projects, urban planning, strategies and plans and will help in prioritising areas for tree planting activities
- Adoption of key strategies, plan and policies:
 - [Integrated Water Management Plan \(2021\)](#)
 - [Flood Resilience and Integrated Stormwater Management Strategy \(Sep 2021\)](#)
 - The updated [ESD policy](#) for Shire buildings and civil works
- Deployed 1,000 new food organics and garden organics (FOGO) bins or caddies during the last quarter, bringing our annual total (FY21/22) of households using the service to around 18,600
- 26 more farmers undertook the Regenerative Farming training course in the past 12 months. The area of land farmed by course participants now totals 2,734 Ha

Just these community and council achievements alone have resulted in a reduction of over 25,000 tonnes of CO₂-e in the last 12 months.

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Climate Emergency Plan Progress Report 2022

Introduction

Mornington Peninsula Shire Council adopted Ensuring Future: Our Climate Emergency Response on 25 August 2020. Our [Climate Emergency Plan](#) provides clear priorities across seven summits and 21 actions steps to guide the Peninsula towards net zero carbon emissions by 2040. It is a collaborative plan that can only be achieved by the community, the Shire and other levels of government working together. The Mornington Peninsula Shire recognises that the climate emergency presents an unprecedented challenge and we are proud to be part of an international movement taking urgent action to reduce emissions and to address climate change impacts. However, 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. This report details progress on all targets, actions and tasks in our Plan and will be updated annually.

Reporting

The Shire has started developing reporting tools to provide the community and external stakeholders with updates on our progress with the Climate Emergency Plan and in our ultimate goal of net zero emissions by 2040. The Online Progress Portal and the Interactive Solar Upgrade Map will be updated quarterly. Find these tools and follow the Shire's progress on climate action and other useful news and information [here](#)

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](#).

Council and Wellbeing Plan

The [Council and Wellbeing Plan 2021-2025](#) was adopted by Council in November 2021. This plan was informed by the Community Vision, the Climate Emergency Plan and other key documents and provides the framework for all the decisions and operations of Council. The first principle of our Community Vision that guided the development of the Council and Wellbeing Plan was 'Addressing Climate Change'. This principle has been embedded into the strategic objectives of the Council and Wellbeing Plan and will help support our climate goals into the future. Our community want climate action and this Progress Report provides a transparent overview of our progress in this space.

State of the Environment Report

The most recent State of the Environment Report (2021) has described the health of Australia's environment as poor and deteriorating. The report highlights the role climate change has had and will have on the future of Australia's environment. Emissions that have already occurred will continue to have profound impacts on our ecosystems, but future emissions will determine the trajectory of these climate impacts in the second half of the 21st century. The report reiterates the importance of immediate and decisive action on carbon emissions. The full report can be found [here](#)

COVID-19

COVID-19 has had significant impacts on our community and our plans. Several actions within the plan have been delayed or have become unviable as a result of changing community behaviour and government regulations. While there was a reduction in emissions during the pandemic, these have bounced back due to increased movement and travel.

Climate Emergency Plan Review

The Climate Emergency Plan is currently being reviewed and updated and will be on display for community consultation in early 2023.

Climate Emergency Plan Progress Report 2022

Progress report

This progress report provides a snapshot of the work that the Shire, the community and our partner organisations have been doing in the past 12 months since the release of the last Annual Progress Report 2020-2021. There are 21 actions and 172 tasks that contribute to achieving the 43 targets within the Climate Emergency Plan. We have prioritised the tasks and actions and acted according to their deliverability and impact driven by multiple factors including cost, complexity, and resource. Of the 172 tasks, 143 of them (83%) have commenced (In progress, completed or ongoing), whilst 24 (14%) are not due to start. A further five (3%) were delayed due to COVID-19 and other unforeseen circumstances.

Table 1: Summary of progress on tasks

In progress	Not due to start	Completed	Ongoing	Delayed	Total
80	24	9	54	5	172

Government Initiatives

Our Plan needs everyone to work together, including all levels of government, businesses, communities and individuals. There are many things happening outside the Mornington 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 are proposed to include locations in Rosebud, Mornington and Hastings, with one public fast charger already installed at Morce Avenue, Sorrento.
- 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.
- The Victorian Governments [Gas Substitution Roadmap](#), published in July 2022, which aims to remove barriers and promote sustainable alternatives to gas.
- The [Victorian Energy Upgrades Program](#), which provides discounted energy-saving products for households and businesses and now includes space-heating.
- Victorian Government [Solar Hot Water Rebate scheme](#).
- The Victorian Government's 20-year biodiversity protection plan: '[Protecting Victoria's Environment - Biodiversity 2037](#)'.
- The [Neighbourhood Battery Initiative](#), which supports trials of neighbourhood battery models.
- Grants provided for neighbourhood batteries in partnership with United Energy and promoted through the renewable energy hubs initiative.
- Biogas [grant support](#) launched through Sustainability Victoria.

Climate Emergency Plan Progress Report 2022

Target

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 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 24-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 **Tables 3-9**.

Actions and Tasks

Each of the 21 actions within the Climate Emergency Plan contribute to achieving the targets outlined in our seven summits, which ultimately guide us to our peak goal of net zero emissions by 2040. 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.

Some tasks do not have a defined end date and are required to be continually implemented to reach our goal and are therefore considered ongoing. This plan is designed to be implemented across a 10-year time frame and therefore some tasks are not yet due to begin. Actions and tasks will be initiated at different points across the decade and metrics will evolve to assess their development.

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 10 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.

Climate Emergency Plan Progress report 2022

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. The last available data set is from 2019, before our Climate Emergency Plan was adopted. A comprehensive emissions profile will be included in future reports when data becomes available. This emissions profile will be sourced from Snapshot, an online portal that uses state level data to provide emissions profiles for Australian municipalities. The methodologies used to calculate these profiles are evolving, and therefore may impact our emissions projections. Find out more about Snapshot and their methods here .

LEAD

ADVOCATE

ENERGY

COMMUNITY

TRANSPORT

LAND

WASTE











Leadership and Governance

Strong leadership and governance will be integral in guiding our climate action across the Mornington Peninsula, while helping us become a regional leader in this challenge.

We must act decisively against climate change, and robust leadership is essential in getting us there. We are uniquely positioned on the Mornington Peninsula to deliver meaningful climate action and influence all levels of government to do the same.

Climate Emergency Plan

Progress report 2022

Table 3: Progress on Summit 1 'Leadership and Governance'

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.	The Climate Oversight Group was established in 2021 and has assisted the organisation to embed climate action in all our decisions. An online training module has been developed for all employees and each department within the Shire is currently undertaking targeted workshops to embed climate action into all our operations and decision making.
1.1	Each year the Shire will review and update our 21 action steps	A review of the 21 actions steps has commenced and will be completed by December 2022. The 2022 Progress Report (this document) provides an update of the status of each of the current tasks.
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'	A citizens panel of community representatives are being engaged to inform the delivery of the Climate Emergency Plan. The Bunurong Land Council will also be engaged to provide advice on delivery approaches and amendments to the Plan.
1.3	From 2021, establish a reference group of suitable strategic partners and experts to guide solutions, as required	A panel has not yet been established. Investigations are currently being undertaken to determine suitable partners and areas of required expertise.
1.4	By 2021, produce and publish the first 'Climate Emergency Plan' annual progress report	The 2022 Climate Emergency Plan Progress Report (this document) has now been published, as well as the 2021 Climate Emergency Progress Report.

Climate Emergency Plan

Progress report 2022

Shire strategies embedded with climate risk considerations

- Asset Management Strategy / Asset Plan 2022-2032
- Beyond Zero Waste Strategy
- Biodiversity Conservation Plan
- Briars Master Plan
- Climate Change Community Engagement Strategy
- Council & Wellbeing Plan 2022
- Domestic Wastewater Management Plan
- Flood and Stormwater Strategy
- Gender Equality Strategy
- Green Wedge Management Plan
- Integrated Water Management Plan
- Municipal Emergency Management Plan
- Pedestrian Access Strategy
- Reconciliation Action Plan
- Road Management Plan

Shire policies embedded with climate risk considerations

- Carbon Neutral Policy
- ESD Policy
- Procurement Policy
- Single Use Plastic Policy
- Triple A Housing Plan 2020-2030
- Universal Design Policy
- Waste Contamination Policy
- Wastewater Management Policy
- Asset Management Policy
- Investments Policy
- Social and Affordable Housing Policy
- Events Policy



Increased Climate Advocacy

The Shire has continued our strong advocacy at a federal, state and industry level to strengthen our community's voice for immediate climate action. This has been evident through our involvement in the SECCCA Regional Climate Advocacy Plan, the development of our Climate Advocacy Plan and through several submissions to state and federal government to increase climate action in legislation and strategies.

Our advocacy is most effective when done as a collaborative effort with our key partners, community groups, businesses, and individuals. Climate advocacy is critical in persuading governments and stakeholders to take strong climate action so that we can achieve net zero emissions as soon as possible. The termination of the AGL Gas Import Terminal in Crib Point is an example of how our advocacy can have positive results for the community and the climate.

Table 4: Progress on Summit 2 'Increased Climate Advocacy'

Increased Climate Advocacy (continued overleaf)		
#	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.	<p>The Shire continues to deliver on this target through several key advocacy positions, development of policies and development of key partnerships. Advocacy positions can take several years to achieve results within government, however this ongoing effort is critical to hold State and Federal government to account and drive change. The Shire has made significant progress on this target in the past year, notably:</p> <ul style="list-style-type: none"> • Submission to State government on 2035 Interim Emissions targets (June 2022) • Climate change motion presented MPS at the Australian Local Government Association conference (July 2022) • Local councils' call for better homes joint statement (July 2022, led by Moreland Council)
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	<p>The Shire has contributed to the South East Councils Climate Change Alliance (SECCCA) Regional Climate Advocacy Plan, which was launched in August 2022. This plan represents the collective voice of nine councils. Work is currently underway to advocate for the policy positions within this plan to State and Federal politicians. A Mornington Peninsula Climate Change Advocacy Plan has been prepared and policy positions arising from this plan are pending approvals.</p>

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Increased Climate advocacy

#	Target	Detail
2.2	By 2021, develop and publish the first 'Annual Advocacy Report' for transparency and accountability	An internal Climate Emergency Advocacy register has been developed and will be released to the community in 2022.
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 have commenced and will be published in 2023

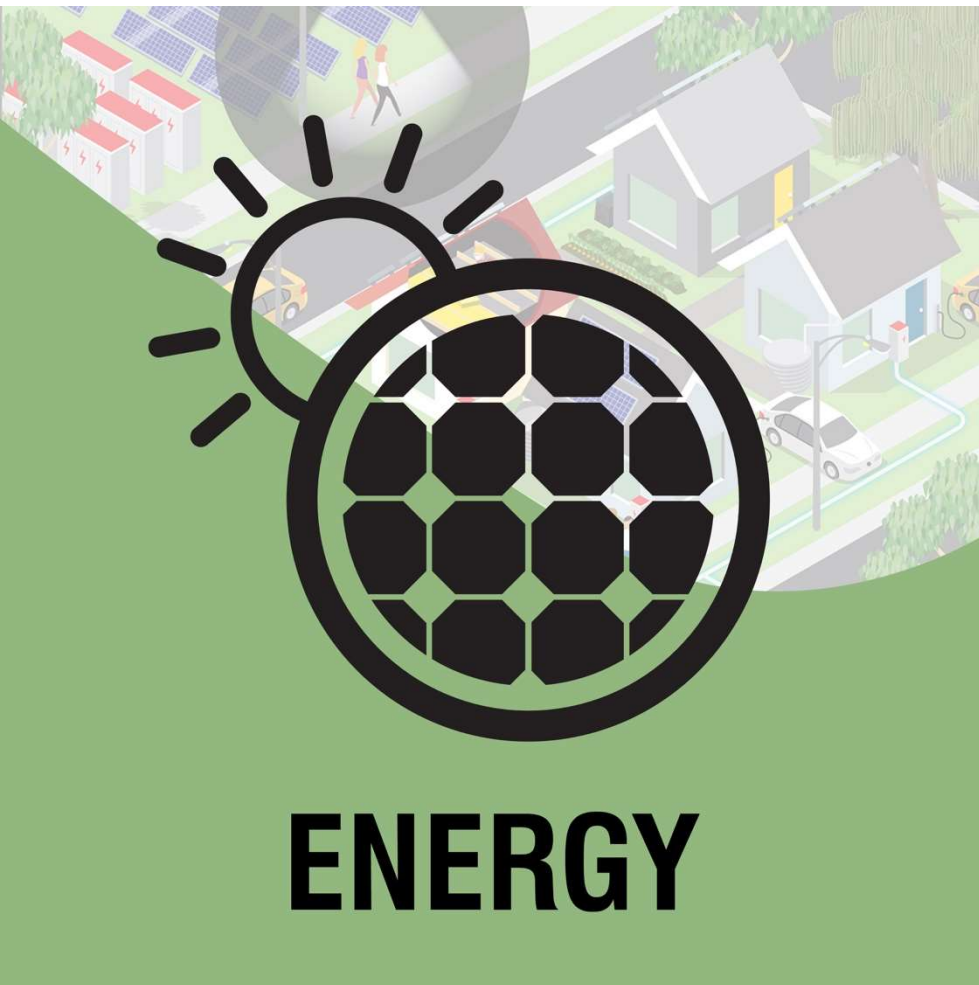
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Key submissions to the State and Federal government

- Draft 30-year Infrastructure Strategy (Feb 2021)
- Climate Change Adaptation Action Plans with officer submissions on primary production, built environment, education and training, health and human services (Aug 2021)
- Gas Substitution Roadmap (Aug 2021)
- Infrastructure in a zero emissions economy
- Submissions to the State government on 2035 Interim Emissions targets (June 2022)
- Australian Local Power Agency Bill (Aug 2021)
- Advocacy to require net zero carbon emissions for new developments and strengthen resilience to climate change

Shire policies embedded with climate risk considerations

- Carbon Neutral Policy
- ESD Policy
- Procurement Policy
- Single Use Plastic Policy
- Triple A Housing Plan 2020-2030
- Universal Design Policy
- Waste Contamination Policy
- Wastewater Management Policy
- Asset Management Policy
- Investments Policy
- Social and Affordable Housing Policy
- Events Policy



Zero Carbon Energy

The Shire and the community have made significant progress to reduce our municipalities emissions through zero carbon energy.

Electricity and gas use currently represents roughly over 60% of the Mornington Peninsula's total carbon emissions, so this stationary energy is our biggest opportunity to mitigate emissions and reach our target of net zero emissions by 2040.

We must continue the transition to zero carbon energy sources for use in our buildings and homes. The Shire is currently in the process of certifying the 2020/21 reporting season as carbon neutral and we continue to drive down our emissions from our operations to reduce the need for carbon offsets.

Climate Emergency Plan

Progress report 2022

Table 5: Progress on Summit 3 ‘Zero Carbon Energy’

Zero Carbon Energy (continued overleaf)		
#	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 57.5% complete. As of June 2022, 115 MW of known renewable energy generation capacity is installed on the Mornington Peninsula. 114 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	The Shire has achieved net zero emissions for the 2019/20 reporting period and is currently in the process of being certified under the Climate Active Carbon Neutral Standard for the 2020/21 period. The Carbon Neutral Policy is under review as increasingly carbon offsets become less viable.
3.2	By 2023, the Shire will source all electricity from renewable generation	Target 10.3% complete. The Shire currently generates over 1.48 GWh of zero-emission electricity per annum from the 1.26 MW of solar PV installed on the rooftops of its buildings but purchases an additional 10 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 41.8% complete. As of June 2022, the Australian PV Institute estimates 20.9% of buildings on the Mornington Peninsula have solar PV installed.

Zero Carbon Energy

#	Target	Detail
3.4	By 2030, carbon emissions from all residential buildings and businesses will be reduced by 70% from 2018 levels	<p>Data not yet available. This will be updated once the next community emissions profile for the Mornington Peninsula is generated from Snapshot. However, the Shire has supported the following initiatives to reduce carbon emissions in residential buildings:</p> <ul style="list-style-type: none"> • The Shire has partnered with not-for-profit Australian Photovoltaic Institute (APVI) to offer SunSpot's solar mapping tool to Peninsula residents and businesses. This is designed to help users understand the solar potential of your home or building • The Energy Savvy Program, which has the following results: <ul style="list-style-type: none"> ○ 89 Scorecard (energy) assessments undertaken ○ 73 household participated and undertook 79 upgrades ○ Total value \$293,079 (with financial contributions from DELWP, the Shire and the householder) ○ Most upgrades were hot water heat pumps or reverse cycle air conditioners ○ Annual GHG saving for Mornington Peninsula is 56,641kg CO₂-e. Over the life of the products this would be 566, 410 kg CO₂-e. ○ Average increase in star rating: 0.74

Key achievements we have made in the past year to transition to zero-emissions energy

- Installed 84 kW of solar PV on Shire buildings
- Installed seven electric vehicle chargers for the Shire fleet
- Upgraded 112 streetlights to energy-efficient LED lights, with plans to upgrade 4000 more
- Installed four hot water heat pumps in Shire buildings
- Signed two new Environmental Upgrade Agreements in 2021/22
- 1976 solar PV systems were installed on the Peninsula in 2021/22, adding an additional 17.8MW of renewable energy generation capacity
- The newly elected ALP government introduced its Powering Australia Plan, which has a target of 82% renewables in the National Electricity Market by 2030.
- 205 Small Business Energy Saver Program updates completed, saving businesses \$175,847 and avoiding 628 t CO₂-e emissions
- 66 take ups of the Solar and Energy Bulk Buy Program, avoiding 437 tCO₂-e emissions annually or more than 8,700 tCO₂-e emissions over a 20-year period
- 350 consultations for Energy Advice Services delivered to households
- 89 energy assessments provided as part of the Energy Savvy Upgrades Program, resulting in an annual GHG saving for Mornington Peninsula of 56,641kg CO₂-e. Over the life of the products this would be 566, 410 kg CO₂-e.



Resilient and Adaptive Community

Climate change impacts are being felt across our community and significant changes to our climate and environment have already occurred.

Public infrastructure, emergency services and community health will continue to be impacted as floods, droughts and fires worsen. Emissions that have already occurred will continue to have profound impacts on our ecosystems for years to come, so we must ensure the resilience of our community and infrastructure is strengthened.

The Shire has taken numerous actions to ensure the community and our built environment will be resilient to climate change.

Table 6: Progress on Summit 4 'Resilient and Adaptive Community'

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.	<p>Community resilience has been significantly impacted by COVID-19, through lack of social connection, impacts to businesses, tourism losses and financial hardships. Despite restrictions, the Shire has delivered a total of five workshops over the last 12-months to build community understanding and resilience to climate change, including:</p> <ul style="list-style-type: none"> • An online webinar 'Climate change - what is it and what can we do about it?' with presenters Dr Linden Ashcroft of Melbourne University, Daniel Pleiter from SECCCA and Councillor Despi O'Connor • Three workshops on mental health and climate change with Adjunct Professor Susie Bourke, including: <ul style="list-style-type: none"> ○ 'Active hope for environmental advocates': https://youtu.be/BzFrKIWX8Lc ○ 'Talking to Young People about Climate Change' ○ 'Helping Young People Manage Climate Anxiety' https://youtu.be/c7dPbZa_7Mw • Delivered 'Climate-proof your garden' workshop, Briars Eco Centre Sept 2021

Resilient and Adaptive Community (continued)

#	Target	Detail
4.1	Each year the Shire will participate in at least 50% of the major community-led events on climate action	The Shire is working to identify all major community events on climate action and participate in these. Due to COVID-19 there have been limited events held in this space. Shire staff participated in the Climate Festival 'Earth Day' event at Dromana Drive-in. We have partnered with Climate for Change to train facilitators to lead climate conversations within our community. Find out more here .
4.2	By 2025, Shire infrastructure and services planning will consider climate change impacts.	The Shire's Environmentally Sustainable Design (ESD) Policy for Shire buildings and civil works was amended and adopted in August 2022. It is currently being implemented, embedding climate change mitigation and adaptation into capital works design. This policy implementation is supported by updating project management processes, contract and tender documents and relevant standard design. The Shire has also run a series of climate emergency workshops with the infrastructure and services planning departments to further embed climate actions into our processes and decision making. In addition to this, the Shire has collaborated with the South East Councils Climate Change Alliance (SECCCA) on their Asset Vulnerability Assessment (AVA) investigating the impact of climate change on Shire buildings, roads and drains. This project has been completed and these findings are being incorporated into Shire infrastructure planning decisions. An Asset Vulnerability Assessment for residential houses is currently underway.
4.3	By 2025, increase community deliberative engagement in the Shire's 'Climate Emergency Action' decisions	The Shire's Citizens Panel will be engaged regarding the delivery of the Climate Emergency Plan and the appropriate level of Council support. This will give the community a voice for climate emergency actions and will provide feedback for the Shire to amend delivery approaches.

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 21% of buildings on the Mornington Peninsula have solar panels installed as of March 2022. The Shire has supported uptake through its Energy Advice Service, Solar Bulk Buy, Energy Savvy Initiative, 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 is being collected to support plan and strategy development, e.g., the Draft Food Economy & Agroecology Strategy and planned Economic Development Strategy. The Shire is also currently supporting the DELWP Energy Resilience Study, which is investigating energy resilience solutions for 24 towns across the state at high risk of prolonged energy disruption due to extreme weather events. Balnarring, Red Hill and Flinders have been identified by DELWP as the three communities that will be of focus for the Mornington Peninsula. The energy solutions may include energy backup systems for essential services and community hubs (such as on-site power generation, battery and energy management), and larger town-scale energy solutions.
4.6	By 2030, reduce the 'Annual Average Damage' (AAD) of flood prone areas on the Peninsula by 10%	Flood mapping, which is used to assess AAD, is currently being updated to ensure it complies with the most recent standards. The AAD assessment is a key selection criterion in project prioritisation. This will help select projects that achieve the goal of lowering AAD and provide good value for money.

Key achievements

- The development of the ESD policy, which was updated and adopted in August 2022
- The Shire awarded a total of 19 Climate Action Grants totalling \$142,315 to 19 community-led initiatives
- The Shire's Eco Living Display Centre at the Briars and Environmental Education Workshops Community Environmental Workshops - Mornington Peninsula Shire (mornpen.vic.gov.au) provides education and consultation for homeowners
- The Shire is supporting the DELWP Energy Resilience Study, which is investigating energy resilience solutions for 24 towns at high risk of prolonged energy disruption due to extreme weather events. Balnarring, Red Hill and Flinders have been identified by DELWP as the three communities that will be of focus for the Mornington Peninsula
- The Shire has collaborated with SECCCA to develop an Asset Vulnerability Assessment (AVA) tool assessing the impact of climate change on Shire buildings, roads and drains



Sustainable Travel and Transport

Transport is the second largest source of carbon emissions on the Mornington Peninsula and represents a huge opportunity to reduce our total emissions.

Most of these emissions come from road transport, so making the switch to active transport like walking or cycling, electric vehicles and a zero-carbon public transport system are key solutions to reducing these emissions.

The Shire has responsibilities for local roads and active transport infrastructure. The State Government oversees public transport and arterial roads.

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Table 7: Progress on Summit 5 'Sustainable Travel and Transport'

Sustainable Travel and Transport (continued overleaf)		
#	Target	Detail
Key target	By 2030, transport emissions will be reduced by 50% from 2018 levels.	Target 21% complete. Google Environmental Insights have estimated transport emissions in 2021 had decreased by ~10.5% from 2018 levels. In 2020, transport emissions had decreased by ~29.5% from 2018 levels. This increase from the last reporting season can be attributed to the community beginning to travel again following COVID-19 restrictions.
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 are being investigated for accuracy and relevance for incorporation into the Shire's upcoming RideSafe strategy and the current Pedestrian Access strategy . Baseline data and future reporting will be included in future reports. The Shire continues to develop key active transport links, with Stage 1 of the Peninsula Trail due to begin construction in 2023. Footpath construction continues to roll out in line with the adopted 'Pedestrian Access Strategy'.
5.2	By 2025, daily public transport usage will be doubled	Data is not yet available. Possible indicators are being investigated for accuracy and relevance. Baseline data and future reporting will be included in future reports. Development of the Shire's Integrated Transport Strategy will guide efforts to increase uptake in public transport throughout the Peninsula.

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 vehicle sales to be zero emission vehicles (EVs) 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. One of these fast chargers has now been installed at Morce Avenue, Sorrento. 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 six electric vehicles in its pool car fleet, with a further three due for delivery in early 2023. Due to a worldwide shortage of electric vehicles, it has been difficult to acquire new electric vehicles in the past year.</p>

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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,

The development and adoption of the Integrated Transport Strategy will be the primary guiding document for this target. This Strategy, which is nearing completion, will guide the development of an accessible transport network linking activity centres throughout the Peninsula. Current implementation of the Pedestrian Access Strategy and RideSafe Strategy is delivering projects to connect communities to townships, schools and green spaces. The Shire continues to advocate for improvements to the public transport network on the Mornington Peninsula and has continued discussing improvements with both the Department of Transport and neighbouring councils. Recent changes include a Flexiride trial between Safety Beach and Rosebud, and a semi express service between Frankston and Rosebud.

5.6

By 2030, smart technology public transport solutions are introduced, such as 'Movement as a Service' (MaaS)

In February 2022, the Department of Transport (DoT) commenced a 12-month trial for an on demand FlexiRide service between Safety Beach and Rosebud. The FlexiRide has no fixed route, and passengers can book a trip from their nearest physical or virtual bus stop and travel to / from four designated FlexiRide bus hubs (Dromana Shopping Centre, Rosebud Plaza, Rosebud Hospital and Rosebud Village Shopping Centre). The Shire continues to advocate to DoT for improvements to the public transport network on the Mornington Peninsula.

Key actions to reduce transport emissions

- Increased the Shire's fleet to 6 electric vehicles, with 3 more on order due to arrive in 2023
- Reduced our fleet by 41% (88 vehicles) since 2020
- The Shire, in collaboration with the South East Councils Climate Change Alliance (SECCCA) and four neighbouring Councils, completed an Electric Vehicle Charging Roadmap for the southeast region
- The Shire worked with EV charging provider, Evie Networks, to install fast chargers in Sorrento and have commenced assessing several other locations



LAND USE

Sustainable Land Use and Environmental Restoration

Our land and natural areas are a significant asset to our community but are also particularly vulnerable to the impacts of climate change.

We must protect and improve the health our natural assets including our waterways, bays, inland habitats, and agricultural land.

The Shire has been working to achieve this through our own operations, as well as facilitating business and the community to do the same.

Table 8: Progress on Summit 6 'Sustainable Land Use and Environmental Restoration'

Sustainable Land Use and Environmental Restoration (continued overleaf)		
#	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>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 2022. • 23,000 trees and shrubs were planted in 2021/2022 in key areas by the Shire and Landcare groups • 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. The Victorian Government's 'Biodiversity 2035' plan will also assist the Mornington Peninsula to prevent species extinction.
6.2	By 2025, existing established indigenous trees are protected	The Shire has developed a Tree Ledger GIS tool that identifies established and significant trees and allows the Shire to map and identify these trees so that targeted resources can go into their ongoing protection.

Sustainable land use and natural environment (continued overleaf)

#	Target	Detail
6.3	By 2030, 20% of local farms will adopt agroecological practices or transition to regenerative farming techniques	Fifty-two farmers have enrolled in the regenerative farming course over the past two years. The area of land farmed by course participants totals 2,734 Ha.
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 have contributed 9,312 volunteer hours and 1800 people in the 2021-22 reporting period. The Shire have also engaged 2199 people through community environmental education in this period. There have also been 1495 volunteers involved in 321 friends group working bees, taking the total number of people involved in environmental care programs over the past year to 5,494.
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 tool. This will determine the baseline of present vegetation and measure ongoing vegetation levels. Following this, local targets and action plans will be put in place to work towards this target. This data will also be used in the Open Space Strategy and used to identify areas that will be most impacted by the urban heat island effect

Sustainable land use and natural environment (continued)

#	Target	Detail
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 Shire assets. This will provide 2.1 ML/ day to the Briars from the treatment plant. 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.	Seventy-three hectares of Biolinks have now been supported by the Shire's Biolink Grants program. A new Tree Ledger GIS tool has been developed which will allow us to assess our tree coverage more accurately across the Peninsula.
6.8	By 2030, improve waterway health by 10% from 2020 levels	The Shire is currently working with Melbourne Water (MW) and Environment Protection Authority Victoria (EPA Vic) to determine baseline (2020) data. We continue to collaborate with MW on programs that target pollution hot spots across peninsula. The Shire recently completed an award-winning stormwater bioinfiltration basin at Rye foreshore which will improve waterway health by removing stormwater pollutants.

Key achievements

- The development of a Tree Ledger GIS application. This tool will be used to guide capital projects, urban planning, strategies and plans and will help in prioritising areas for tree planting activities
- Planting of over 23,000 shrubs and trees
- Supported 52 farmers with a total of 2,734 Ha through the regenerative farmer course
- Construction of award-winning stormwater bioinfiltration basin in Rye



Circular Economy and Zero Waste

The Shire continues to tackle the unsustainable 'take-make-waste' model of consumption and aims for zero waste generation through a circular economy.

The Shire has been actively improving circular economy infrastructure and investigating the most efficient ways to divert waste to alternative treatments.

We have rolled out several key initiatives that are encouraging positive behaviour change within the community, as well as reduced waste from Shire operations.

Table 9: Progress on Summit 7 'Circular Economy and Zero Waste'

Circular Economy and Zero Waste (continued overleaf)		
#	Target	Detail
Key target	By 2030, zero waste will go to landfill and 100% of resources will be recovered and reused	The Shire continues to investigate local waste to energy opportunities and other alternative waste recovery initiatives. Waste audits on residential general waste and Food Organics and Garden Organics (FOGO) bins are currently being conducted to understand the Shire's kerbside waste compositions. The Beyond Zero Waste Strategy continues to be implemented to achieve maximum landfill diversion.
7.1	By 2021, implement a FOGO service for residences	At least 1,000 new FOGO bins or caddies ordered during the last quarter. This brings our annual total (FY21/22) of households using the service to around 18,600. We estimate that our community has diverted 1,500 tonnes of food waste from landfill in the past year, which is about 95 kilograms per household.

Circular Economy and Zero Waste

#	Target	Detail
7.2	By 2030, cut the total waste generated per premises in households by 20% (including plastic waste)	<p>Since the adoption of the Plan, waste generated by households has increased. This trend can be attributed to the rise in occupied residencies, resulting from people moving into the region during the COVID-19 pandemic and working from home arrangements. Other factors include increases in DIY projects and renovations because of stay-at-home restrictions.</p> <p>As of the January 2021 audit, individual households presented on average 14 kilograms and 152 litres of materials to the kerbside FOGO bin service per fortnight. Individual households presented on average 7 kilograms and 56 litres of materials to the kerbside garbage bin service per week.</p>
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	<p>Work is ongoing to capture recycled content data in all capital works and maintenance projects as part of our asset management systems. Recycled materials used in our projects since 2020 are:</p> <ul style="list-style-type: none"> • Recycled plastic (roads and footpaths): 7.3 tonnes • Recycled tyres (road): 9.2 tonnes • Reclaimed asphalt pavement (road): 145 tonnes • Fly ash (concrete footpaths): 20 tonnes

Key achievements

Single Use Plastics

- Ten different organisations across the Peninsula have been awarded a Single Use Plastics grant to phase single-use plastics from their organisation

Reusable nappies

- This [scheme](#), launched in mid-2021 provides rebates to residents who purchase reusable sanitary products and nappies
- Over 300 rebates have been provided to the community

Litter prevention

- We have established our own Litter Prevention Team to combat the ever-increasing issue of illegally dumped waste on the Peninsula.
- A total of **99** infringements were issued between 1 July 2021 and 30 June 2022, totalling over \$105,000

Composting and rebates

- 250 new compost systems being delivered directly to households across the Shire this past year

Food Organics and Garden Organics (FOGO)

- 1,000 new FOGO bins or caddies ordered during the last quarter
- Annual total (FY21/22) of households using the service is around 18,600
- 1,500 tonnes of food waste diverted from landfill in the past year, which is about 95 kilograms per household

Mobile recycling trailer

- Our trailer has collected 11,000 items (close to 8,000 kilograms in total). This has saved 238 million litres of water and 157,779 kilograms of greenhouse gases being released into the atmosphere
- 70% of these items were rehomed in communities that needed them most. The remaining items were either recycled into wiper rags or converted into biofuel

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Progress update – actions and tasks

Table 10: 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.		See below	
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	Completed	The Climate Oversight Group (COG) was formed in March 2022.	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	Community representation and scientific advice will be addressed through the Climate Oversight Group. Collaboration with the Citizens Panel will occur in September 2022 to provide further advice and feedback on the Climate Emergency Plan delivery.	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	The Shire is supporting the 2022 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 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	A panel has not yet been established	2022

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MORNINGTON
PENINSULA
Shire

1.5	Embed the Climate Emergency in all future Shire plans, decisions, programs, actions, policies, strategies and contracts	Ongoing	<p>This is an ongoing task which is being delivered across the organisation. Online Climate Emergency Training has been rolled out for all Shire staff, with 251 staff completing as of August 2022. Climate Emergency workshops have also been delivered to all departments in the Shire, with the aim of embedding a consideration of climate change risks into planning and decision making. The Shire have already embedded Climate Emergency action into several plans, policies and strategies, for example:</p> <ul style="list-style-type: none"> ○ Council and Wellbeing Plan ○ Organisational Plan ○ Beyond Zero Waste Strategy ○ Biodiversity Conservation Plan ○ Climate Change Community Engagement Strategy ○ Asset Management Strategy / Asset Plan 2022-2032 ○ Procurement Policy ○ Flood and Stormwater Strategy ○ ESD Policy 	Ongoing
1.6	Identify and coordinate a systematic review of relevant existing Shire strategies, plans and policies and related resources to incorporate climate emergency principles	Not due to start	This task is not due to commence	2023
1.7	Seek funding for climate emergency responses, including partnerships, grants and sustainable loans	Ongoing	Funding has been received to conduct energy audits on 10 community centres. Funding applications have been submitted for energy upgrades to community buildings and EV charging for Shire fleet vehicles.	Ongoing

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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	Ongoing	Climate Emergency training has been developed for all staff, which includes an online learning module covering impacts and responsibilities of the Shire and targeted workshops to understand and embed climate action in their services. These have been delivered from June 2022.	Ongoing
1.9	Improve internal messaging and communications regarding the Shire's role, programs and achievements related to the Climate Emergency	Completed	Internal communication of the Climate Emergency progress is delivered through CEO updates and other internal communication avenues	2021-2022
1.10	Report to the public on a regular basis on climate change actions taken by the Shire	Ongoing	An online reporting portal has been developed to communicate the progress of the Climate Emergency Plan tasks. This was launched in July 2022 and can be found here . This tool will be updated quarterly alongside reporting highlights in the quarterly community report.	Ongoing
1.11	Monitor and evaluate progress and amend the Climate Emergency tasks as required to ensure progress towards our targets is achieved	Ongoing	An annual Progress Report (this document) has been published and an updating process has been established, including reporting on tasks and targets. The annual review of the Climate Emergency Plan tasks is due at the end of 2022 and will include necessary amendments.	Ongoing

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1.12	Lead initiatives in cultural awareness and change, particularly regarding connectedness to land and waters, indigenous culture and practices	Ongoing	Within the 19 Climate Action Grants been awarded in June 2022, five were awarded to community groups seeking to develop greater cultural heritage awareness. The Briars have engaged with the Bunurong Land Council to undertake a values assessment so we can present the stories they wish to be told. This will include information in the Briars Visitors Centre and via a frog sculpture trail in the Briars Wildlife Sanctuary.	Ongoing
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	This is an ongoing action. A key example of this is the community and Shire coordinated response to the AGL Gas Import Terminal proposal: AGL & APA Group Crib Point Gas Import Jetty and Pipeline Project Shape our Future (mornpen.vic.gov.au)	Ongoing
1.14	Oversee advocacy activities with and by Councillors on behalf of the organisation, to ensure consistency in approach	Ongoing	The Shire's Advocacy Strategy is being prepared. This will provide the framework to implement the Shire's advocacy positions.	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 is the key role of the Climate Oversight Group	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				
	2.1	Publish an annual Climate Emergency Advocacy Report, detailing collaborations and actions taken	Ongoing	An annual Climate Emergency Advocacy register has been completed and will be published in 2022.	Ongoing
	2.2	Review the Climate Emergency Advocacy Plan every two years	Not due to start	The Climate Change Advocacy positions will be reviewed two years after the completion of the Plan.	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	Completed	Advocacy has been undertaken for stronger emissions targets and a 'green recovery'.	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	Not due to start	These case studies will be developed in 2022.	2022 - 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 	In progress	Elements of these advocacy positions are being incorporated into the regional and Mornington Peninsula Shire's advocacy policy positions for Council consideration.	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 	In progress	These actions are incorporated into the Mornington Peninsula Shire's Climate Change Advocacy Plan and will form part of the Shire's Climate Change Policy positions for Council consideration.	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 	In progress	<p>The Shire continues to advocate along with other SECCCA Councils to strengthen and influence other alliances. The Shire was involved with the development of the Regional Climate Change Advocacy Plan developed by SECCCA.</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 	In progress	<p>Programs supporting businesses to reduce emissions including the Small Business Energy Saver Program and Environmental Upgrade Finance have been actively promoted across the Peninsula.</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.		The Beyond Carbon Neutral Plan has been delayed following Council's decision to move away from investment in international carbon credits to offset emissions. This means Council operations will not be carbon neutral after June 30, 2021. An alternate plan, focussing on reducing operational emissions further will be developed in 2022/23.	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 is in the process of certifying the 2020/21 reporting period as carbon neutral. The 2021/22 period will not be carbon neutral following a Council decision to shift investment from international carbon credits to local emissions reduction initiatives.	2021-2023
	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	In 2021/22, Mornington Peninsula Shire installed: - 84 kW solar PV - Seven electric vehicle chargers - 112 LED streetlights - Four hot water heat pumps Planning has also commenced for more solar PV installations and the installation of over 4,000 more LED streetlights.	Ongoing

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3.3	By 2023, the Shire will source all electricity from renewable generation	Not due to start	This task will take place in 2023.	2023
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	This action is delayed following Council's decision in June 2022 to move away from investment in international carbon credits.	2022-2023
3.5	Restrict new natural gas connections for Shire facilities, and develop a 'Natural Gas Phaseout Strategy' with clear targets	In progress	No new Shire facilities have been connected to gas. Three Shire buildings were disconnected from gas in 2021/22 and several other facilities were partly electrified. The Natural Gas Phaseout Strategy is planned for development in 2022/23.	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	Ongoing investigations continue with external providers regarding Bioenergy plants - for diverting commercial organic waste from landfill and Repower Mornington Peninsula, investigating Virtual Energy Network partners and retailers for potential future partnerships.	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.		The Shire has implemented and actively promoted programs supporting businesses to reduce emissions, including the Small Business Energy Saver program (SBESP) and Environmental Upgrade Finance. Two new Environmental Upgrade Agreements were signed in 2021 and 205 energy upgrades have been completed as part of the SBESP.	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	Two new Environmental Upgrade Agreements were signed in Q2 of 2021. Further promotion of Environmental Upgrade Finance was done through the Better Building Finance webinar presentation, a Best Bites workshop and through Small Business Energy Saver program officers.	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	Ongoing	Eighty-nine household energy assessments and 79 energy upgrades have been completed through the Energy Savvy Upgrades program, in partnership with the Department of Environment, Land, Water and Planning (DELWP).	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	Ongoing	Three hundred and fifty energy consultations conducted for residents through the Energy Advice Service and sixty-six energy upgrades completed through the Solar and Energy Bulk Buy program. This has resulted in 437 tonnes CO ₂ -equivalent annually in avoided emissions.	2022-2025
4.4	Provide advice to support community owned renewable energy programs, such as solar farms and micro-grids	Ongoing	We are currently assisting Repower Mornington Peninsula to investigate carbon emissions at a postcode level and to recruit community flagbearers to drive local action in this space and co-design renewable energy programs. The Shire participated in fortnightly workshops since October 2021 with United Energy and DELWP to understand the key selection criteria and streamline the planning process for incorporation of community scale batteries into the grid via the Neighbourhood Battery Initiative.	Ongoing

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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	Active promotion of the Solar and Energy Bulk program, Small Business Energy Saver program and Environmental Upgrade Finance.	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	Community workshops were delivered in late 2021, including: 'Design your own sustainable home', 'Prepare your home for summer' and 'Climate-proof your garden'. 'Sustainably retrofit your home' workshop will be run September 2022. Six webinars will be held to promote our Solar and Energy Bulk Buy program including 'All Electric Home' and 'Sustainable housing'.	Ongoing
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).	In progress	Proposed amendments to the Mornington Peninsula Shire Planning Scheme to increase community resilience to climate change impacts caused by predicted sea level rise are currently on public exhibition.	

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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	Activity so far has focused on the agricultural sector via the rating strategy approach recommended in the Mornington Peninsula Shire's Food Economy & Agroecology Strategy. This is an important incentive for farmers to undertake carbon/sustainable farming projects. The rating strategy approach is dependent on the adoption of the Food Economy and Agroecology Strategy by Council.	2020-2023
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	The Summer Saver program by United Energy has now finished for the season.	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	Community workshops were delivered in late 2021, including: 'Design your own sustainable home', 'Prepare your home for summer' and 'Climate-proof your garden'. The 'Sustainably retrofit your home' workshop will be run September 2022. Six webinars were held to promote our Solar and Energy Bulk Buy program including 'All Electric Home' and 'Sustainable housing'.	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 ongoing discussions with the community and experts regarding community energy opportunities.	
	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 partnered with Climate for Change to run climate conversation facilitator training and 'Climate Champion' training for our community from June - November 2022. This will continue to strengthen relationships with community climate action groups including Repower Mornington Peninsula , MPcan and Flinders Zero Carbon Community . Climate Action Grants were awarded to five community groups totalling \$38,296 in Sept 2021 and 19 community groups totalling \$142,315 in June 2022. A series of free workshops for our community were delivered in Sept/Oct 2021 on climate anxiety, including: 'Helping young people manage climate anxiety', 'Talking to young people about climate change' and 'Active hope for environmental advocates'.	Ongoing

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5.2	Support community volunteers with access to training and networks to build skills in communication, leadership and advocacy.	In progress	The Shire has partnered with 'Climate for Change' to run climate conversation facilitator training for our community from June - November 2022	2023-2025
5.3	Establish a 'Climate Change Community Action Grants' program to fund community groups, youth groups and businesses to reach our climate emergency goals	Completed	Climate Action Grants were awarded to five community groups totalling \$38,296 in September 2021 and 19 community groups totalling \$142,315 in June 2022. Round three of the Climate Action Grants are now open. Applications will close on 12 September 2022.	2021-2022
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 is pursuing initiatives such as farm dam greenhouse gas emission research and agroforestry projects to facilitate climate action. Other initiatives like the Biodiversity Stewardship Scheme, localised farmer co-ops and Catchment Management Authority (CMA) led carbon/biodiversity projects are opening opportunities for smaller landholders to amalgamate projects into marketable regional offsets.	2021-2030
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	Not due to start	This task is not due to commence.	2023

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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 has actively promoted the uptake of the Solar and Energy Bulk program, Small Business Energy Saver program, the Environmental Upgrade Finance agreements and the solar homes program by Solar Victoria .	2021-2030
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	Not due to start	This task is Not due to start. An in-depth review of this policy is due in 2023.	2023

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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.			
	<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	Actions included in the Climate Change Community Engagement Strategy have been incorporated into the Climate Emergency Plan.	2022
6.1				

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6.2	Facilitate exhibitions and public art on climate change and our natural environment to generate community reflections	In progress	Internationally renowned award-winning Melbourne artist Julian Clavijo has been commissioned by Mornington Peninsula Shire to create a thought-provoking and impactful mural about climate change on the wall of Ritchies IGA in Hastings (opposite the Hastings library). His work will start in early October and is anticipated to be completed by December 2022.	2021-2022
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	Ongoing	The Shire's Schools & Community Environmental Education Program and school holiday programs aim to establish long-term custodianship of our environment. The Briars continue to develop and deliver school holiday programs including night walks and the Junior ranger program. Additionally, the Briars has begun the roll out of the Gardens for Wildlife program in collaboration with the Natural Systems team.	Ongoing

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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	In progress	The Philanthropists (GrowCorp) resolved to pursue activities on land already in their ownership for greater control. The Shire is assisting them with Landcare programs, farmer incubation programs, renewable energy opportunities and youth at risk training in food systems, environmental programs and community fundraising events.	2021-2025
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	Ongoing	The Shire has begun internal education through programs such as "Around our Shire" and is continuing education through The Community Plate, Best Bites and the Mornington Peninsula Produce programs.	2023
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.	Not due to start	This task is not due to commence.	Ongoing

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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	The Shire delivered the following community environmental education workshops in 2021/2022: 'Climate-proof your garden', 'Keeping Backyard Chooks', 'Composting', 'All electric home', 'Preserving seasonal produce', 'Sustainable food choices webinar', 'Sustainable homes', 'Sustainable investment webinar', 'Intro to permaculture', 'Native bee hotel' and 'Lizard lounge creation'. 2021-2025
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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.		<p>The Shire's Municipal Emergency Management Plan is regularly reviewed and updated, as required by State government legislation.</p> <p>The Shire has also appointed a new Resilience and Recovery Coordinator who will provide leadership in the development and implementation of key strategies and plans and capacity building activities. This will build the internal confidence of our organisation and resilience of our community when responding to and recovering from an emergency event.</p>	Ongoing

Please see overleaf for next task

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7.1	<p>Develop tailored adaptation plans for coastal areas based on Marine and Coastal Policy 2020 considering existing infrastructure, cultural heritage and biodiversity values. This involves:</p> <ul style="list-style-type: none"> a. Identify sites at risk of coastal inundation and erosion, considering storm surge impacts b. Investigate most appropriate adaptation actions for at-risk sites, applying the 'pathway approach' detailed in the MCP. c. Support citizen science projects that monitor coastlines and biodiversity. d. Fund ongoing monitoring and assessment of coastal erosion and sand movement. 	Ongoing	Three new Coastal and Marine Management Plans are in development for Flinders, Mt Eliza and Portsea.	2021-2023
7.2	Investigate planned retreat options from dangerous areas, especially those at extreme risk of frequent or intense bushfire	Ongoing	Neighbourhood safe places have been identified as retreat options from dangerous areas, as well as four designated places for emergency relief centres.	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 continues to review and update the Municipal Emergency Management Plans.	Ongoing

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7.4	Review the Victorian Heat Health Plan and develop an 'Extreme Weather Health Plan' that addresses heat waves and extreme cold	In progress	Due to the changes in Emergency Management legislation, the Municipal Emergency Management Planning Committee (MEMPC) has been approached to consider removing the Heat Health Sub Plan and refer to instead to the State Heat Health Plan.	2022
7.5	Educate all sectors of the community on climate change risks and encourage preparedness.	In progress	Findings from the investigation into the climate change impacts on health and wellbeing are now incorporated in the Shire's Council and Wellbeing Plan and Health and Wellbeing Action Plan. Additionally, the Shire is conducting a planning webinar in August on emergency preparedness for the community.	2021-2025
7.6	Raise community awareness of the Municipal Emergency Management Plan	Completed	This task has been completed.	2022
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

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7.8	Work with partner agencies to review and implement strategies to manage bushfire risk	Ongoing	The Shire participates on the Municipal Fire Management Planning Committee and the Regional Strategic Fire Management Planning Committee. Both committees comprise of emergency organisations such as Parks Vic, MMFB, DELWP, Police. The Fire Management Plan is updated working with these groups.	Ongoing
7.9	Collaborate with the Municipal Emergency Management Planning Committee to plan for local evacuations and relief during an emergency	Ongoing	A Municipal Relief and Recovery Planning Committee has been established as a subcommittee of the Municipal Emergency Management Planning Committee to plan for local evacuations and relief during emergencies.	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	In progress	In June 2022 DELWP/United Energy invited Council to participate in an Energy Resilience Study. They proposed Council recommend 3 sites in Balnarring, Flinders and Red Hill to be recommended to DELWP for priority energy upgrade funding (i.e. solar, batteries and generator back up) to provide essential services for community dependence during prolonged outages. (Action is in response to October 2021 storm events).	2022

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7.11	Incorporate emergency management planning in the Shire's maintenance works, capital works planning and all permitted public events	Ongoing	The review of all Shire contracts now includes Emergency Management clauses. All public events now require an Emergency Management Plan.	Ongoing
7.12	Assist disaster recovery management by mitigating social risks and harms arising from displacement of people	Ongoing	The Shire continues building resilience in communities through the appointment of a Resilience and Recovery Coordinator and the development of a Resilience / Community Engagement 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	A Disaster Relief Funding Arrangements (DRFA) Co-ordinator will soon be appointed to reduce the financial impact of disaster recovery. The Shire is also running climate workshops across all departments of the organisation to embed climate change risks into planning and decision making.	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
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	Findings from the investigation into the climate change impacts on health and wellbeing are now incorporated in the Shire's Council and Wellbeing Plan and Health and Wellbeing Action Plan. Additionally, SECCCA's Resilient Communities project has started and will identify communities vulnerable to climate change impacts and develop tools to build community resilience.	2021-2023
8.2	Incorporate relevant parts of the 'Climate Emergency Plan' and the latest climate knowledge in the next 'Municipal Health and Wellbeing Plan'	Completed	This Shire has incorporated the latest Climate Change knowledge into the Municipal Health and Wellbeing Plan.	2021-2022

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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	Not due to start	This task is not due to commence.	2023
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	An internal working group has been established to progress this action.	2021-2022
8.5	Conduct township-specific community engagement to raise awareness of locational impacts, and assist preparedness	Not due to start	The current collaboration with SECCCA on the Community Resilience project will help target specific communities and messages.	2023
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.	2023

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8.7	Identify private industries and services at risk from climate-related social and economic pressures, and collaborate to develop appropriate responses	Not due to start	This task is not due to commence	2023
8.8	Collaborate with public and private health professionals to advocate for a response to the mental health impacts from climate change	Not due to start	This task is not due to commence. Refer to Task 5.1 for education programs on climate anxiety and mental health resilience	2023
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.	Completed	Completed as part of the project to investigate climate change impact on health and wellbeing.	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.		The Shire has begun developing an Integrated Transport Strategy which will be delivered in 2022.	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 nearing completion of the 'RideSafe Strategy' which will direct future investment in active transport infrastructure.	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	Footpath construction continues to roll out in line with the adopted Pedestrian Access Strategy. The Shire is nearing completion of the 'RideSafe Strategy' which will direct future investment in active transport infrastructure.	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	The Shire continues to advocate for improvements to the public transport network on the Mornington Peninsula and has continued discussing improvements with both the Department of Transport and neighbouring councils. Recent changes include a Flexiride trial between Safety Beach and Rosebud, and a semi express service between Frankston and Rosebud.	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	The Shire continues to advocate for improvements to the public transport network on the Mornington Peninsula. Recent changes include an on demand Flexiride trial between Safety Beach and Rosebud, and a semi express service between Frankston and Rosebud. The Shire has continued construction of 'Missing Links' on the footpath network, with a focus on connections to public transport.	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	Climate Change Alliance (SECCCA) and four neighbouring Councils completed an Electric Vehicle Charging Roadmap for the southeast region. The roadmap will identify the number and locations of EV charging infrastructure required over the next 10-15 years. Over the past 12 months, the Shire has also developed relationships with EV charging providers looking to install privately owned chargers on the Mornington Peninsula. This has resulted in fast chargers installed in Sorrento and many more being planned.	
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 have been undertaken 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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9.7	Increase engagement to educate the community on the benefits of sustainable and active transport	Not due to start	The Shire has been developing the RideSafe Strategy and continues to implement the Pedestrian Access Strategy. Further engagement and promotion works are being planned through these strategies to support and promote active transport.	
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 been investigating opportunities for the use of autonomous buses on the Peninsula and will continue to advocate to Department of Transport for public transport improvements.	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	Staff are supported with working from home and telecommuting due to the COVID-19 pandemic. Detailed work into shared working spaces for Shire officers and the private sector is planned for the future.	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	The Shire has been developing the RideSafe Strategy, and end of trip facilities will be included in this strategy and will be considered in future precinct plans.	2021-2030
9.11	Facilitate the installation of electric vehicle charging infrastructure at all major activity centres	In progress	The Shire has installed fast chargers in Sorrento and have commenced assessing several other locations. Private sector charging infrastructure has been installed in Mornington and Grant funding will support the future installation of chargers in Rosebud, Red Hill, Mornington and Hastings.	

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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.			
	10.1 Decrease the size of the vehicle fleet where possible	In progress	The shire is continuing to review and optimise fleet numbers. We have reduced the fleet by 88 vehicles since 2020, a reduction of 41%.	2021-2025
	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	In progress	Hybrid working arrangements are in place to encourage working from home where appropriate, including digital technical support. The Shire's internal Eco Team will continue to promote using Electric Vehicles (EVs) over ICE (internal combustion engine) cars.	2022
	10.3 By 2025, all Shire pool vehicles will emit zero-emissions from the tailpipe	In progress	The Shire now has six electric vehicles, with a further three on order due for delivery in early 2023. However, due to a worldwide shortage of electric vehicles, the Shire is not on track to replace all pool vehicles by 2025.	2021-2025

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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
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	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

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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 Integrated Transport Strategy.	Ongoing
10.8	Ensure adequate power supply and charging infrastructure at Shire facilities to accommodate the targeted increase in zero-emissions vehicles	In progress	<p>The Shire has installed an additional 4 x 7kW AC charging stations at Shire offices (3 at Mornington and 1 at Hastings and has begun the rollout of smart charger capabilities at all existing chargers). This will serve to facilitate a targeted transition to a zero-emission vehicle (ZEV) fleet.</p> <p>Shire Officers have developed a guidance note for capital projects advising recommended steps to facilitate ZEV uptake, including futureproofing of electrical infrastructure. In addition, The Shire has committed matched funding for install of a further five charging stations, pending outcome of DELWP's Electric Vehicle Charging for Council Fleets program.</p>	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

Climate Emergency Plan

Progress report 2022

11.1	<p>Fully fund and accelerate the Shire’s Biodiversity Conservation Plan (BCP) in its entirety, especially:</p> <ul style="list-style-type: none"> 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	The Shire participated in policy development, policy review and developed actions for greening urban areas. Additional planning was conducted to include urban opportunities in carbon sequestration initiatives.	2020-2030
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Climate Emergency Plan

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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 in place a Tree Ledger GIS application to comprehensively map and track trees across the peninsula. This tool will be used to guide capital projects, urban planning, strategies and plans and will help in prioritising areas for tree planting activities. This enables Task 12.1.	2020-2022
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 partnered with SECCCA, Blue Carbon Lab and WesternPort Biosphere to assess carbon stocks in the Port Phillip and Western Port shorelines and tidal wetland reserves. The actual implementation plan has not yet been developed as it relies on research outcomes identifying potential GHG reduction methods and confirmed sequestration opportunities.	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 Melbourne Water and Ozfish to plant mangroves adjacent the Hastings foreshore landfill to establish a natural buffer between the landfill and Western Port Bay. Additionally, the Shire has been actively participating in the State Government's Victoria's Resilient Coastal Project workshops to help shape the State guidelines on adaptation planning. It is also noted that the Port Phillip Bay Coastal Hazard Assessment is still awaiting completion by the Department of Environment, Land, Water and Planning which will be critical to the Shire's adaptation planning and priority setting.	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	MPSC and Melbourne Water (Formerly the PPWCMA) have conducted demonstration trials with farmers on the Mornington Peninsula to investigate practical application of the Accounting For Nature method which uses the FULLCAM Soil Carbon methodology as well as methods rewarded under the Agriculture Biodiversity Stewardship Scheme.	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 2022/23 maintenance round for existing tree bands that have been placed on large indigenous trees in bushland and roadside reserves to reduce invasive species, including for the protection of the Mt Martha Bundy (<i>Eucalyptus carolanae</i>) has been completed. Response from initial banding has been encouraging. Benchmark environmental management plans are under development for key sites, such as the Tootgarook Wetlands for both flora and fauna.	2021-2025



11.7

Use existing and new resources at the Briars to research and develop knowledge on ecological restoration, recycled water for conservation, causes of local dieback, species conservation and reintroduction practices

In progress

The Briars have successfully eradicated rabbits have from the wildlife sanctuary and numbers significantly reduced across the property. Native vegetation such as orchids and grasses have increased in abundance as a result. Other projects that are being implemented include:

- Planting of 2000 tube stock along creeks last planting season, a further 3000 to be planted this winter.
- Working in collaboration with [Odonata Foundation](#) as part of their Sanctuary Master mind program on a threatened species reintroduction.
- Ongoing bracken slashing trials to restore grassy woodlands vegetation
- Weed burner trials to control Sweet Vernal grass and to restore grassy woodland vegetation.
- Ongoing management of translocated Dwarf Galaxias population (wetland water supplementation).

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.			
12.1	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	Not due to start	Following the development of the Tree Ledger, this work will commence in 2022 to prioritise urban areas that would have the highest impact from increased canopy cover.	2022
12.2	Implement localised stormwater diversion programs that operate alongside the street tree program and the greening of public spaces	In progress	The Shire continues to investigate and implement opportunities to support tree canopy growth with alternative water sources including passive irrigation with tree pits. There are currently 100 tree pits on the Mornington Peninsula which will be audited in the first quarter of 2023.	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	Development of the Placemaking Framework has been delayed due to COVID-19 response and is proposed to commence in late 2022.	2021-2022

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12.5	<p>Incorporate the 'Principal Pedestrian Network' and other active transportation routes within all masterplans, urban and township plans, and other high level strategic decisions</p>	In progress	<p>This task will be incorporated into the 'Integrated Transport Strategy'.</p>	2022-2025
12.6	<p>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</p>	In progress	<p>This has been addressed in part by Council's ongoing development of the Food Economy and Agroecology strategy, which details pathways to promote and improve access to sustainable goods and services within our local Ag sector. In addition, four suburbs on the Peninsula have now received a combination of state and Federal funding for the subsidised installation of paid public electric vehicle charging infrastructure. These will be supplied by 100% green energy and will help improve access to sustainable transport options for the community. A commercial organic waste collection feasibility study is about to commence on the Mornington Peninsula, led by South East Water and the Shire to investigate feedstocks for a potential bioenergy processing at Boneo. It is hoped a by-product of this facility will be organic fertiliser product for local landholders.</p>	2022-2023

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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	The council adopted the Integrated Water Management (IWM) Plan in December 2021 and the Water Sensitive Asset Masterplan was completed in early 2022. Ongoing works to embed IWM principles into council works continue, including the update of the Open Space Strategy.	Ongoing
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	Not due to start	Sustainability is currently considered in all urban planning projects. Significant work is required to understand blue/teal carbon management opportunities, which is ongoing	2022-2023

Climate Emergency Plan

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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	Partnership is underway with OzFish to establish oyster reefs in Port Phillip Bay using oyster/clam shells diverted from landfill.	2021-2025
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	Not due to start	Task not due to start, aim to commence in 2023.	2022-2023

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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	The Shire is continuing to advocate for Environmentally Friendly Moorings (EFMs) where possible and currently the focus is primarily on Flinders through the Coastal and Marine Management Plan (CMMP) the Shire is currently developing. The CMMP is being developed in collaboration with the local community and stakeholders including Parks Victoria, Marine Safety Victoria, Better Boating Victoria and DELWP. A key objective of the CMMP is to 'protect and enhance the marine and coastal environment'. Through recent community consultation we have heard that the local community is supportive of EFMs and Parks Victoria are open to exploring options further. For further information on the CMMP, please follow this link to the project webpage: Coastal and Marine Management Plans Shape our Future (mornpen.vic.gov.au).	Ongoing
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 objective 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

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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 has awarded a \$10,000 grant to “ Southern Seagreens ” to support the reproduction of native seaweed seed lines. This will provide a collaborative focal point for the creation of a regenerative seaweed industry on the Mornington Peninsula. Discussions are continuing around potential seaweed production with circular economy and carbon sequestration benefits.	2021-2025
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	Not due to start	The Shire offers Biolinks Support Grants for eligible landholders to connect fragmented biodiversity and improve resilience. The Shire is also developing ESD resources for developers that include biodiversity objectives and solutions. This space is moving rapidly, and so further work is needed to encourage innovation and positive outcomes.	2022

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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			
	14.1 Increase use of alternative water sources (e.g. recycled water and stormwater) to support: <ul style="list-style-type: none"> 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	<p>Several recycled water schemes are either under investigation or in implementation stage. This includes construction of Class A recycled water network at the Briars, feasibility study on Tyabb/Somerville Recycled Water Scheme as well as the Hinterland Environmental Water Scheme.</p> <p>A Water Sensitive Asset Masterplan was developed in early 2022 and helps identify opportunities in 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.</p>	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	<p>The Shire's webpage on Water is regularly updated with information on water saving initiatives, stormwater, and wastewater management: Integrated Water Management - Mornington Peninsula Shire (mornpen.vic.gov.au). In addition, local food businesses are encouraged to improve their water management via the Best Bites program. See link here.</p>	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. The Shire is still waiting for an update by SEW on progress in this area.	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 adopted its Flood and Stormwater Strategy on 22 March 2022. The Strategy identifies Climate Change as a major pressure on the future of our drainage networks and presents various objectives to mitigate the detrimental consequences of increased stormwater flows.	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 Water Sensitive Asset Masterplan was completed in early 2022. 1 of the 5 completed WSUD concept designs include stormwater harvesting. Progress of these WSUDs into implementation are subject to the budget process.	2021-2030

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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	Ongoing efforts in working with the developer's community on embedding best practice stormwater management on private developments. As per above. To monitor responses to the newly launched Stormwater Quality in Lieu Contribution Scheme in the next 12 months.	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	Ongoing efforts to embed Integrated Water Management objectives in council buildings and civil works via the ESD Policy continue.	2020-2025
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 Water Sensitive Asset Masterplan was completed in early 2022. The Rye Bioinfiltration basin completed in November 2021 and received the Stormwater Victoria Award 2022.	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	Investigations were conducted for stage 1 and 2, with only stage 1 progressing. Stage 1 will provide 2.1 ML/day to the Briars from the treatment plant. This stage is estimated to be completed by the end of FY 22/2023 in collaboration with South East Water.	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.		Mornington Peninsula Shire’s draft Food Economy and Agroecology Strategy is currently being updated to incorporate stakeholder feedback and will be taken to Council for adoption in the coming months.	
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	The Shire is awaiting the outcome of the State Government’s Planning for Melbourne’s Green Wedges and Strategic Agricultural Land project, which will inform progress our own Green Wedge Management Plan-based policies. A copy of the Shire’s submission can be viewed here . Development and adoption the of Shire’s Food Economy and Agroecology Strategy will see further alignment between our local food and agricultural sector and environmentally beneficial outcomes.	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	The new Conservation Land Rate was approved as part of the previous rating strategy. The outcome of the Agroecology rating strategy proposal? is dependent on Council adoption of the Food Economy and Agroecology Strategy. The strategy has largely been supported with some adjustments and a range of implementation suggestions being incorporated into the strategy following further consultation.	2022

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15.3	<p>Through consultation with local agriculture and food manufacturing sector, develop and deliver a 'Food Economy and Agroecology Strategy':</p> <ul style="list-style-type: none">a. Identify ecological and climatic impacts of and opportunities for local food industriesb. Support the uptake of regenerative farming practices and showcase businesses using sustainable, regenerative food production methodsc. Forecast sustainable economic and production opportunities and threatsd. Encourage and enable circular economy practices amongst local businessese. Determine regulatory barriers to business growth and diversificationf. Forecast opportunities and threats for food production and security, and devise mitigation and adaptation strategies to help businessesg. Work collaboratively with partner organisations to advocate for recycled water access to key agricultural areas within the region	In progress	<p>The Food Economy and Agroecology Strategy has been adjusted to incorporate an amended timeline and valuable feedback from Stakeholders including the Victorian Farmers Federation. The final copy will be brought to Council for potential adoption in the coming months. The draft strategy was largely well received by the community and stakeholders.</p>	2022
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15.4	<p>Use the Briars as a demonstration site for regenerative agriculture and opportunity for agricultural research and development, particularly to:</p> <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 	Delayed	<p>The Briars management is currently scoping methods to trial regenerative techniques for managing the Briars vineyard, with the aim of increasing soil biodiversity. Ongoing rainfall data also continues to be gathered onsite.</p>	2020-2021
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>The draft Food Economy and Agroecology Strategy recommends incorporating a sub-brand into the MPP provenance trademark family that indicates to consumers it was produced on farms practicing sustainable farming practices (i.e., regenerative farming). The progress of this is dependent on adoption of the Strategy by Council.</p>	2022
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>The Shire is seeking funding to support a feasibility study to coordinate and support several biodigester opportunities, which will reduce organic waste sent to landfill or out of the region and provide energy and high-quality fertiliser outputs.</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	New carbon credit amalgamation schemes are being introduced regionally by farmer cooperatives, catchment management authorities and by the Federal Government's 2021 Agriculture Biodiversity Stewardship Scheme.	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	During the 2021-22 round of Biolink Support Grants, nine community groups successfully applied for projects that will restore and enhance biodiversity values on both private and public land across the peninsula, totalling \$73,000. This includes remnant habitat restoration, environmental weed control, creek line restoration and revegetation work to link patches of fragmented vegetation. Throughout 2021-22, the Shire has also continued to work with Bunurong Land Council to support the Warreen Beek Ranger program. Additionally, 2021-22 saw the development of Conservation Action Plan templates, which will be incorporated into the application process, helping to clearly outline long-term actions that landholders will commit to, in order to improve biodiversity values.	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 ESD Policy for Shire buildings and civil works was amended in 2022 to better reflect current practices, industry trends and experience. This amended policy was adopted by Council in August 2022 and is currently being implemented and integrated into the Shire's capital works, maintenance and renewals program. Find the updated policy here .	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	Amendment C232morn went on public exhibition in March 2022 until 20th May 2022: https://shape.mornpen.vic.gov.au/c232morn-environmentally-sustainable-design-local-planning-policy . Following this, Council will decide whether to proceed with the amendment and refer to a planning panel or the minister as needed.	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 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	<p>The Eco Living Display Centre provides regular consultation and education to residents to promote the consideration of sustainability as part of their building projects.</p> <p>In addition, ESD resources will be published on the Planning section of the Shire's website to encourage sustainable design. Education and support resources are in development to support developers, architects and builders with information and resources through the planning process.</p>	2021-2023
16.5	Incentivise early adoption of ESD in private development	In progress	Education and support resources are in development, 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 has been a member of CASBE since April 2021. The Shire is participating in Stage 1 of CASBE's 'Elevating Targets' project, seeking to investigate and build an evidence base for zero carbon homes. Council has resolved to join 23 other councils in Stage 2, which has commenced.	2021-2025

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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.	Not due to start	This project is aiming to commence in early 2023 and develop a 1-2 page vision document to support our officers and supply chain to invest in sustainability. 2022
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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.			

Please see overleaf for next task

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17.1

Adopt and fast-track the Beyond Zero Waste Strategy, which will:

- Achieve 100% diversion from landfill by 2030
- Introduce the Food Organics, Garden Organics (FOGO) collection system across the municipality
- Create opportunities to explore and test new and emerging technology and infrastructure to support improved recycling and reuse
- Create opportunities to explore how a circular economy can support the development of new, local industries and economic opportunities
- Actively collaborate with other councils and the state government to enhance waste management systems and infrastructure
- Work with and educate the community to encourage waste avoidance, change purchasing behaviour, improve recycling and normalise sharing and reuse
- Heighten controls around minimising the contamination of recyclable and compostable waste streams
- 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
- Investigate levers to incentivise waste avoidance and local circular economies in businesses, agriculture and industry.
- 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 new Food and Green Waste kerbside service Stage 1 implementation complete. The Shire is implementing the Single Use Plastics Policy, supporting the community to transition through the Single Use Plastics grant program and leveraging behaviour change through the Waste Contamination Policy. Community engagement programs to educate community and support them to embed waste avoidance practices are also underway, including the Recycle Right campaign, rebate programs for reusable sanitary products, reusable nappies and composting systems, the Mornington Peninsula Teacher's Environment Network and the recycling champions initiatives.

Ongoing

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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. Circular economy principles and the waste hierarchy are at the core of the programs being delivered by the waste education officers through this strategy, with the key focus on reframing waste as resources, promotion of waste avoidance behaviour and diverting waste from landfill (resource recovery).	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.	Ongoing
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	A Materials Flow Analysis has been conducted and a final report produced for officers. A summary and overview of actions will be circulated to relevant community stakeholders to align with grant opportunities. Recommended actions from this report will influence the updated Climate Emergency Plan in 2022 and be implemented as relevant.	2020-2021

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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

In
progress

Early planning and a Material Flow Analysis report produced by the Shire last year has assisted the development of a partnership project with South-East Water to build a bioenergy plant at Boneo to receive organic commercial waste and agricultural waste.

Other initiatives that have commenced include:

- Bio-filters installed on the cap of the Mt Eliza landfill to filter landfill gas. 2022
- The 'Brain Wave Bikes' program at Rye transfer station, which teaches young people skills in bicycle repair ultimately diverting bicycles from our waste stream embedding re-use into our community

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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’s Procurement Policy was updated in December 2021 and includes significant requirements and allowances for sustainability. Work is ongoing to embed this in processes, contracts and tender documents.	2021-2022
18.2	Update standard contracts to include provision of all contractor and product emissions data, including fuel use	In progress	The contract and tender templates will be updated following the adoption of the Procurement Policy, including gathering data on emissions, fuel use and materials.	2021-2022

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18.3	Review existing contracts to encourage innovation and greening of the supply chain	In progress	Internal review of procurement documents is underway and expected to be implemented by the end of 2022. We are also engaging in ongoing capacity building of supply chain partners at a project level.	
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	Future Maintenance contracts are currently in development, with strong support for sustainability initiatives in place.	2021-2023
18.5	Develop a sustainable products and materials register to assist procurement decisions, including reactive and proactive maintenance	In progress	Sustainable products and materials specifications in capital works are supported through the Shire's ESD Policy. Officers are investigating viable platforms and services to support other procurement such as stationery and other consumables	2020
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 Procurement Policy was updated in 2021 and includes sustainability objectives and allowance to spend up to 10% more for products providing environmentally sustainable benefits. Implementation of and education regarding this Policy is ongoing.	2021-2022

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18.7	Provide ongoing education and training for staff and contractors to understand short and long-term impacts of procurement decisions	Not due to start	This task is not due to commence.	2023
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	In progress	Following a delay in the review due to COVID-19 restrictions, the catering tender is under development and will incorporate Climate Emergency principles and objectives to support health & wellbeing outcomes.	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	Delayed due to COVID-19 implications and low number of events planned.	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.			
19.1	Review banking and investment policies to divest the Shire’s from activities that cause or promote environmental harm	Not due to start	This task is not due to commence.	2023
19.2	Implement new criteria relating to environmental sustainability, human rights and ethical concerns	Not due to start	This task is not due to commence.	2023

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19.3	Inform current banking partners of the upcoming change in policy, and the new criteria for future contracts.	Not due to start	This task is not due to commence.	2021-2023
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 has partnered with 'Market Forces' to deliver a community webinar on 'Sustainable investment' in May 2022. This webinar recording is available on the Shire website: Workshop recordings - Mornington Peninsula Shire (mornpen.vic.gov.au)	2021-2023

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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	<p>Access, or conduct where necessary, detailed modelling to identify erosion and inundation impacts in key coastal areas, assisting in strategic planning.</p> <p>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</p> <p>b. Advocate where required for access to state government modelling resources</p>	Ongoing	Projects are ongoing to improve flooding, erosion and inundation data. The Flood and Stormwater Management Strategy was adopted by Council March 2022. The Port Phillip Bay Coastal Hazard Assessment is currently in development by DELWP	Ongoing
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.	Not due to start	Task not due to start. Waiting on the Port Phillip Bay Coastal Hazard Assessment.	Ongoing

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20.3	<p>Undertake regular review and monitoring of relevant climate data and use to inform strategic planning</p> <p>a. 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</p> <p>b. Review relevant data and learnings from other municipalities, cities and government organisations. Investigate data sharing partnerships and sharing platforms</p> <p>c. Consolidate existing and new data into standardised format, facilitating access and distribution for users</p> <p>d. Make climate data available to community, emphasising education as it pertains to climate change adaptation and mitigation</p>	Ongoing	<p>Some local data has been provided and circulated within the Shire, however this task requires further resourcing.</p>	Ongoing
20.4	<p>Investigate the role of artificial intelligence (AI) in the collection, analysis, interpretation and communication of data, especially relating to key activities within this Plan</p>	In progress	<p>The Shire is incorporating technology into various projects documented in this plan, including the Tree Ledger, SunSPOT and the Asset Vulnerability Assessment. We will continue to seek further opportunities to use innovative techniques to understand and communicate data.</p>	Ongoing

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20.5	<p>Work with community, government organisations and the private sector to ensure that risk mapping is accurate according to latest projections</p> <p>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).</p> <p>b. Consolidate relevant risk mapping with local water authorities, South East Water (SEW) and Melbourne Water</p>	Ongoing	Investigation and research in this area are ongoing.	Ongoing
20.6	In partnership with community, research economic impacts to local industries to advise businesses of future threats and opportunities	Ongoing	Investigation and research in this area are ongoing.	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.			
21.1	Annually review the 'Climate Change Risk Register', incorporating current Victorian Climate Projections	In progress	Annual review not yet initiated.	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	This year, the Shire acquired tools to assess the vulnerability of its building, road and drainage assets to various climate change scenarios. This was an output of the South East Councils Climate Change Alliance (SECCCA) Asset Vulnerability Assessment Project which saw the development of framework to assess the vulnerability of Shire assets and associated spatial analysis tools.	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
21.4	<p>Develop standards and guidelines for building and maintaining Shire built and natural assets, and embed these into Shire programs and practices</p>	In progress	<p>These standards and guidelines are being developed and embedded in relevant areas, especially through the ESD Policy in the Shire's capital works program, future maintenance contracts in the maintenance space, and relevant areas to address specific requirements such as biodiversity, water sensitive urban design and circular economy solutions.</p>	2022
21.5	<p>Investigate avenues to efficiently integrate climate impact reporting into existing Shire reporting mechanisms</p>	Not due to start	<p>Task not due to commence.</p>	2023

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21.6	Increase human resources and in-house expertise for climate change impact and risk management, particularly regarding coastal risks	Ongoing	Climate change impact and risk considerations is embedded within relevant positions and will be strengthened over time. Capacity building is ongoing in collaboration with DELWP and the Association of Bayside Municipalities (ABM).	Ongoing
21.7	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	Ongoing	Planning permits for areas identified to be at risk are required to complete site specific hazard assessments and outline adaptation actions achievable within the development area.	Ongoing
21.8	Produce a report on the impacts of not acting to address climate change and the risks of continuing business-as-usual.	In progress	There are significant challenges to comparing the impacts of not acting, as they vary drastically across service delivery areas. Consideration of the risk of not acting to address climate change is being embedded through governance processes, team and unit plans and Shire-wide education.	2022-2023
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	Not due to start	This task is not due to commence.	2022