

DRAFT FOR CONSULTATION



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Moreland Council and community – responding together in the fight for a safe climate

Climate change is a dangerous threat to earth's people, plants and animals.

More extreme heatwaves, flash floods and loss of reliable seasonal rains are just some of the impacts hurting our people and wildlife.

However, more and more local residents, businesses and councils are facing the urgent challenge of responding to the climate emergency, together.

Moreland City Council is making plans to support neighbourhoods, businesses and organisations rapidly reduce their climate pollution by introducing kerbside collection of food waste; creating and upgrading shared paths to make cycling and walking easier; supporting sustainability action in local schools; facilitating community food gardens in our parks; installing electric vehicle charging stations for resident use; piloting community owned solar energy systems and much more.

There is much we can do collectively at a local level to reduce our carbon pollution. Importantly, we can all play a role in demanding State and Federal Governments put in place key policies to enable Moreland (and Australia) to transition to Zero Carbon at emergency speed.

By joining together to respond to the climate emergency and play our part in transforming our society and economy to restore a safe climate, we can help ensure our city and our planet is a place we can all enjoy.

About this Action Plan for 2020/21 – 2024/25

It is Council's adopted goal for Moreland to be a 'zero carbon' community by 2040. This draft Zero Carbon Moreland - Action Plan 2020/21 – 2024/25 proposes key initiatives and programs for the first five-year period of the Zero Carbon Moreland 2040 Framework, adopted by Council in September 2018. Before being finalised it will be subject to extended consultation, over four to five months, with our community and stakeholders.

The draft Zero Carbon Moreland Action Plan summarises key activities to influence and reduce community-wide greenhouse gas emissions across Energy, Transport and Waste sectors. The draft Action Plan aligns with the recently adopted Moreland Integrated Transport Strategy (2019) and Waste and Litter Strategy (2018). It will be augmented by a Zero Carbon Energy Action Plan 2020-25 to be completed by Moreland Energy Foundation.

The draft Action Plan proposes specific and measurable goals for Community and Council (with our partners) to strive to achieve by 2025. Council and our delivery partner Moreland Energy Foundation (MEFL) will continue to collaborate with others, including CERES Environment Park and other neighbouring councils, to bring people together to learn, engage and act. As always, Council will continue striving to 'walk the talk' in its own services, facilities and operations, with key initiatives in waste services, fleet, procurement and buildings.

Because Council cannot 'control' many of the sources of greenhouse gas emissions within our community, we are inviting everyone: individuals, community groups, schools, businesses and not-

for-profit organisations to plan and act – within their sphere of control and influence - to reduce carbon emissions and join the campaign to demand action for a safe climate.

Climate Emergency: We are committed to urgent action

Moreland Council is one of hundreds of local and regional governments acknowledging that we are in a state of climate emergency that requires urgent action by all levels of government. Moreland has a long and proud history of leadership action on climate change and environmental sustainability. We acknowledge the need to step up further. We will be engaging more deeply to support our community to take individual and collective action and collaborating in our advocacy to State and Federal Government for urgent and effective policy and legislative reform.

We acknowledge the scale and speed of transformation needed to change our energy markets, our economy, our legislation, and our lifestyles to eliminate and draw down greenhouse gas emissions requires a nationwide and global emergency response.

We recognise that effective engagement and mobilisation of civil society and businesses in campaigning to demand emergency-mode action on climate change by all levels of government is critical. It is the foundation for the ‘political will’ required to prioritise action for a safe climate above the vested interests of the fossil fuel lobby. We aim to play our part in moving beyond an incremental approach to transitioning our society.

Zero Carbon Moreland – 2040 Framework					
By 2040 Moreland has transitioned to become a zero carbon community.					
Facilitate a just and inclusive transition	Boost resilience and livability	Plan ahead and invest for the future	Build cohesive, healthy and sustainable urban systems	Work collaboratively and learn from others	Partnerships
Leadership and innovation		Mobilising the community		Advocacy	
Energy Transition: Efficient and 100% renewably powered energy		Sustainable transport: Active or zero emissions transport		Waste and consumption: Circular economy with zero waste	
2020–2025 <ul style="list-style-type: none">• Increase environmentally sustainable design outcomes for energy efficiency and renewables via planning, enforcement and advocacy• Assist low income households and renters to overcome barriers to energy transition (e.g. test financial models and targeted programs)• Encourage switch from using gas for cooking and heating to high-efficiency electric alternatives• Continue reducing Council's residual emissions: reduce electricity and gas use, only buy 100% renewable generated electricity, and continue installing rooftop solar• Test models for brokerage and aggregation of energy services that could be scaled• Support and showcase residents and businesses undertaking the energy transition• Lead the community conversation to drive local action Longer term <ul style="list-style-type: none">• Develop a clean tech incubator hub• Pursue a policy pathway for a Zero Carbon Moreland Planning Scheme• Test new ideas for zero carbon buildings with developers• Scale up effective models		2020–2025 <ul style="list-style-type: none">• Transition Council's fleet to low or zero emission vehicles• Invest in infrastructure to support active travel and public transport• Collaborate to deliver travel behavior change campaigns• Amend the Planning Scheme to reduce car parking requirements and enable funding for sustainable transport• Increase design standards in Planning Policy to create more walking and cycling friendly developments• Support public access to renewably powered electric vehicle charging Longer term <ul style="list-style-type: none">• Disincentivise use of private cars• Reallocate space used for private vehicle travel and parking to support sustainable transport use and other purposes• Advocate to ensure new mobility technologies (e.g. autonomous vehicles) deliver broad environmental and social benefits• Explore options for digital delivery of relevant Council services (reducing unnecessary car trips)		2020–2025 <ul style="list-style-type: none">• Drastically reduce the amount of organics sent to landfill• Ensure excellence in municipal waste service contracts• Assist Moreland food businesses to avoid and divert food waste from landfill• Drive down waste and increase use of recycled content products through Council's procurement policy and practice• Foster expansion of local sharing groups• Engage and activate the community as conscious consumers• Support responsible waste management in new developments via Planning Scheme standards and enforcement Longer term <ul style="list-style-type: none">• Promote Moreland as a hub for sustainable design and manufacture• Support local recycling and reuse-focused businesses• Collaborate to encourage adoption of low carbon plant-based diets• Facilitate trials of promising emerging technologies	

VISION

PRINCIPLES

How we will increase our impact

Strategic direction and 2040 goals

Key priorities in Moreland

OUR 2040 VISION FOR A ZERO CARBON MORELAND

Our *Zero Carbon Moreland – 2040 Framework* sets out our Vision for what a zero carbon Moreland by 2040 might look like:

Efficient and 100% renewably powered energy:

- The buildings we live and work in are highly energy efficient – well insulated and built or retrofitted for comfort
- Households and businesses generate, store and export renewable electricity locally
- The national grid is powered by 100% renewable energy
- Homes and businesses are powered only by electricity, following a supported phase-out of gas
- Residents and businesses are proactive and engaged energy users and help to manage demand by smart use of electricity and local storage
- Energy is often generated and traded at a community level, so everyone can access local, renewable energy even if they cannot produce it on their home.

Active and zero emissions transport:

- Most people choose to walk or cycle to get around locally because its healthy, free, safe and convenient
- Moreland is known for its pedestrian and cycle-friendly streetscapes
- Many residents work, play and access services close to home, in '20-minute neighbourhoods' designed to suit people (rather than cars)
- Renewable-powered buses, trams and trains provide a quick, reliable and affordable way to travel
- Use of electric 'car/ride share' services complement active travel and public transport options, helping to reduce private vehicle ownership
- Low rates of private car ownership have seen some car parks converted to green and public open spaces
- Clean and quiet freight trucks (fuelled by renewable hydrogen or electricity) complement 'last mile' freight delivery by bikes, electric scooters and vans.

Circular economy with zero waste:

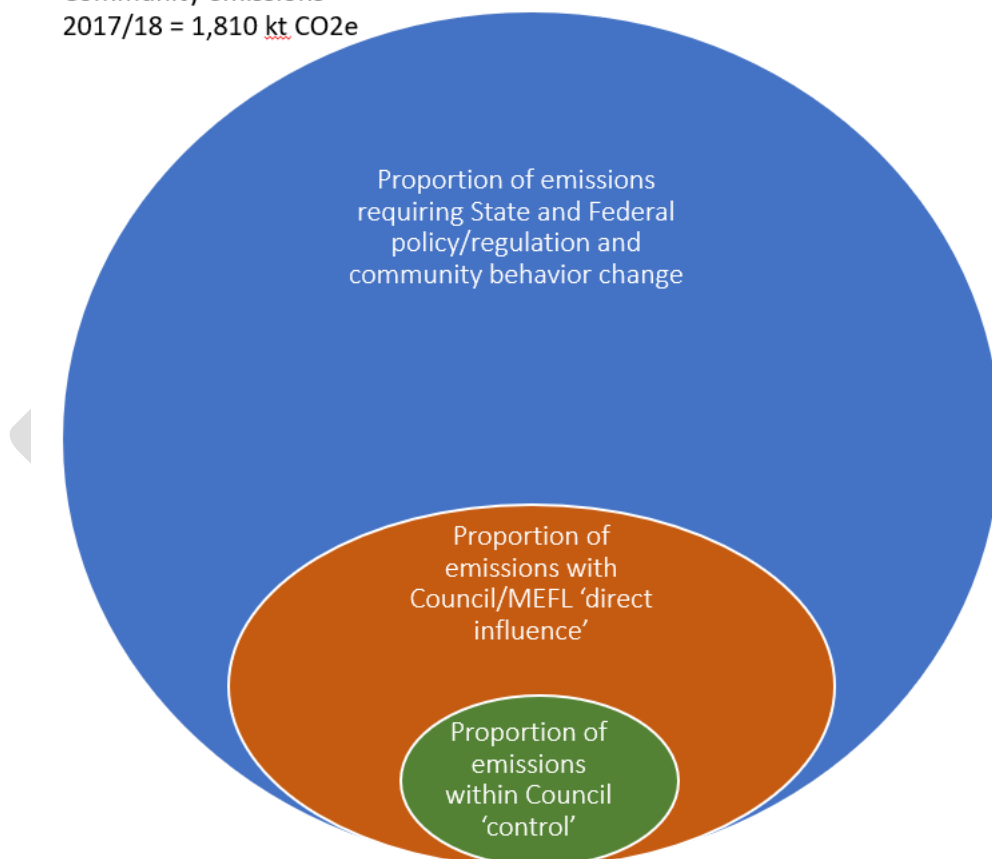
- Households and food businesses avoid generating food waste (and save money!)
- A 'conscious consumer' mindset is the norm where waste is seen as a resource. Consumption is reduced as the community reduces what it purchases, then re-uses, repurposes, recycles, and buys recycled
- People enjoy low-carbon diets
- Local reuse, exchange, share and recycling groups and services are thriving
- Local businesses prosper by creating or providing sustainable goods and services
- Many products are made from recycled materials and are easy to recycle in Australia
- All organic waste is composted or processed to create other useful products (such as mulch, compost, biogas, biochar).

About our goals and targets for 2025

In the draft Zero Carbon Moreland – Action Plan 2020/21 – 2024/25 we have set measurable goals and targets across our strategic directions:

- **Community 2025 goals** — *we invite everyone to adopt and help achieve these goals* - these reflect desired outcomes from our community's collective action, including actions by residents, businesses and all levels of government. We invite all individuals and other levels of government to adopt the 2025 community goals and to play their part in achieving them.
- **Council and/or MEFL and other partners targets** – *we will strive to achieve these targets* - these are tangible outcomes from actions and programs that are within the direct control of Council and/or our delivery partners (given adequate resource allocation). Achievement of these targets will depend on annual resource allocation to deliver planned actions and initiatives. Achieving these targets directly contributes towards realising the Community goals and the overall emissions reduction target.

Community emissions
2017/18 = 1,810 kt CO₂e



To achieve our Vision of a Zero Carbon Moreland by 2040 we need to collaborate with others to build the mass movement required to transform our lifestyles and our politics to recognise and address the climate emergency. State and Federal Governments control some key policy levers that must be enacted for Moreland (and Australia) to transition to Zero Carbon at emergency speed. This is why we are increasing our focus on advocacy campaigning and supporting our community to adopt low carbon lifestyles.



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COMMUNITY MOBILISATION AND CAMPAIGNING FOR CLIMATE EMERGENCY RESPONSE

Community 2025 goals - *we invite everyone to adopt and help achieve these goals:*

- Most of Moreland's citizens and business community members are acting to reduce their carbon emissions and/or have supported climate-related advocacy campaigns (Note: new measure based on household/business survey questions)
- Moreland (meaning Council, MEFL, our citizens, institutions and business community etc) is recognised for our leadership in collaborative campaigning for a safe climate, in partnership with other local councils and community groups.

Council and MEFL 2025 goals – *we will strive to deliver on these goals:*

- Staff across Moreland Council acknowledge the climate emergency and understand the role they can play and are integrating climate action within their service area, strategies and policies. [Note: new measure based on staff survey]
- Moreland continues to be recognised as a national leader in demonstrating the pathway to a zero carbon society.

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated budget
MORELAND COMMUNITY MOBILISATION	Zero Carbon Advocacy Campaigning	<p>Council will join and collaborate with grassroots campaigning groups and regional alliances to develop compelling campaigns to amplify the growing call for strong and urgent action to address the climate emergency from all levels of government and business.</p> <p>Council and MEFL will reach out to local and neighbouring communities and businesses —beyond the already committed — and inspire participation in grassroots campaigning for climate action.</p> <p>As well as supporting community-led campaigning, Council will build on existing advocacy networks/alliances with other like-minded local councils and others to run targeted and visible advocacy campaigns (eg. 'Mayors for...') that have potential to inspire our community and impact state and federal policy on energy, transport and waste.</p> <p>Council will also look to engage University (Masters) students in applied project work to develop creative zero carbon campaigns to 'cut through' to</p>	Council in collaboration with MEFL and many others	<p>\$140k p/a from 2020/21</p> <p>Includes new role (Zero Carbon Advocacy Officer) and campaign funds</p>

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated budget
		<p>create impact with different audiences.</p> <p>The highest priority ‘advocacy asks’ of State and Federal Governments are listed within an ‘advocacy campaigning’ action under Energy Transition, Sustainable Transport and Waste and Consumption action tables below.</p>		
	Zero Carbon Behaviour Change program (integrated community behaviour change initiatives)	<p>Council will work with partners (including MEFL and CERES) to continue engaging local communities —beyond the already committed — to foster wider adoption of sustainable living behaviours and technologies across energy, transport and waste.</p> <p>MEFL will continue to inspire and support people to adopt ‘all electric homes’ with renewable energy and energy efficiency through its members and stakeholders (see Energy Transition section).</p> <p>Early concepts for key behaviour change initiatives to foster more active transport and keeping food waste out of landfill are outlined below under the action tables for Sustainable Transport and Waste and Consumption.</p> <p>In embarking on this work, Council will invest in the development of ‘best practice’ social change initiatives. Fostering tangible and lasting lifestyle change through new initiatives will require investment in social research, careful program design, planning, trials, evaluation and continuous improvement.</p>	<p>Council (related to Sustainable Transport and Waste and Consumption)</p> <p>MEFL (related to Energy Transition)</p>	<p>\$250k p/a to be referred to the 2019/20 budget for program funds and new lead role (City Change - Integrated Behaviour Change Lead) -noting the 2019/20 is before Year 1 of this Action Plan</p> <p>Increasing to \$410k p/a from 2020/21 onwards to fund additional Zero Carbon Behaviour Change Officer role focused on sustainable transport</p>

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated budget
MOBILISATION AND INTEGRATION ACROSS MORELAND COUNCIL	Integrating climate emergency response across Council policies and services	<p>With support from Council leaders, the aim will be to raise staff awareness of the imperative for societal transformation and gain buy-in to embed climate mitigation and resilience-thinking into day-to-day service delivery, strategic policies and strategies, workplans and performance measures.</p> <p>Techniques to engage staff may include speaker presentations, facilitated workshops tailored to each service area, lunchtime film screenings, peer-to-peer engagement etc.</p> <p>As well as external benchmarking of 'best practice', Council would seek expert feedback when updating policies, strategies and service reviews. Where relevant, new objectives and measures (KPIs) may be included in Position Descriptions and performance plans.</p> <p>Engaging staff across Council to play their part will also open up new opportunities and channels for directly and meaningfully engaging our community in zero carbon living (behaviour change) and climate-related advocacy campaigning.</p>	Council	<p>\$90k p/a from 2020/21 for three years</p> <p>Includes new fixed term role (Climate Emergency Integration Lead)</p>

PROMPTER QUESTIONS FOR COMMUNITY AND STAKEHOLDER FEEDBACK

Q 1. GOALS: Are you supportive of the draft Community 2025 Goals for 'Community Mobilisation and Campaigning'? How might you (or your organisation) contribute to achieving these goals?

Q 2. CLIMATE CAMPAIGNING: We recognise that avoiding dangerous climate change is not an isolated 'environmental issue', but critical to maintaining our community's health and wellbeing, the local economy and neighbourhood liveability. What role(s) do you think Council can play in mobilising the community to become engaged in advocacy campaigning? How should Council work with campaigning organisations such as Climate Action Moreland, Australian Youth Climate Coalition (AYCC), Environment Victoria, Australian Conservation Foundation (ACF) and others? How could we support you or your organisation to engage your community on climate-related advocacy campaigns?

Q3. FOSTERING BEHAVIOUR CHANGE: Council already works with partner organisations like MEFL, CERES, 3000 Acres and Compost Community to encourage our community to reduce their environmental footprint. We aim to expand and strengthen our collaborations with community groups, schools, universities and businesses. How could we support you (or your group/organisation) to engage local people in sustainable living? Are you willing to be an energy, transport or waste transition 'community champion', and be involved in mobilising your community?

ENERGY TRANSITION: TOWARDS EFFICIENT AND 100% RENEWABLY POWERED ENERGY

Community 2025 goals - we invite everyone to adopt and help achieve these goals:

- Double the amount of solar photovoltaic (PV) capacity across Moreland (Note: being 44MW up from 22MW as at early 2019)
- Responding to community demand, the national Renewable Energy Target (RET) will be reset so that at least 80 per cent of Australia's electricity generation by 2030 will be from renewable sources.
- Responding to advocacy, by 2025 the Energy Efficiency provisions in the National Construction Code (NCC) will be updated to set an 8-Star Standard for thermal performance of a home (Note: currently 6-Star Standard)
- Average residential energy use in Moreland is less than 4kWh per person per day (Note: currently 4.8kWh/pp/day)
- Moreland continues to be recognised for its innovation and leadership in the energy transition

MEFL and Council 2025 targets – we will strive to deliver on these targets:

- 11MW of new solar PV installed through MEFL services since 2014 (Note: currently 3.1MW as at early 2019)
- 15,000 'lifetime tonnes' of GHG emissions reduction through MEFL energy efficiency initiatives (Note: currently 8,305 at early 2019)
- Council (with the Council Alliance for a Sustainable Built Environment) has played a leading role in Victorian local government efforts towards zero carbon buildings via Planning Scheme standards, enforcement and advocacy
- Pending external co-funding, our 'Cooling Communities' initiative will have resulted in home upgrades (for thermal comfort and/or solar PV) for around 500 social housing or low-income households across Moreland, reducing their exposure to energy poverty and extreme weather events
- Council remains certified 'Carbon Neutral' for its operations and buys all its electricity from Crowlands Windfarm.

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
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Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
ENERGY ADVOCACY CAMPAIGNS	Zero Carbon Advocacy Campaigning - Energy Transition	<p>Council and MEFL will support and help facilitate strong and collaborative advocacy campaigns to push for urgent action responding to the climate emergency.</p> <p>Highest priority advocacy outcomes sought by 2025 include (but are not limited to):</p> <p><u>Australian Government</u></p> <ul style="list-style-type: none"> • A strong, long term, stable energy policy and carbon price • Renewable Energy Target (RET) of 80% by 2030 • An ambitious pathway towards zero carbon buildings through the National Construction Code (NCC) • A national strategy to support the orderly and just transition away from coal- and gas-fired power <p><u>Victorian Government</u></p> <ul style="list-style-type: none"> • A strong ESD policy within the State Planning Policy Framework • Mandate minimum standards for energy performance of residential properties at point of sale and lease • Ensure Victoria's 40% renewable energy target by 2025 is met • Expand the Victorian Energy Upgrade (VEU) activities to include more products • Regulated disclosure of aggregated real time data from electricity distribution businesses. 	Council in collaboration with MEFL, other councils, community organisations, citizens and businesses etc	Covered as part of proposed Zero Carbon Advocacy Campaigning budget (refer to page 8) from 2020/21
RESIDENTIAL / COMMERCIAL / INDUSTRIAL ENERGY	Support Moreland residents and businesses with their energy transition (renewable energy and energy efficiency)	<p>Provide Moreland residents and businesses with comprehensive and proven renewable energy and energy efficiency services, products, trusted information and advice through MEFL.</p> <p>This will include promotional campaigns and extending Positive Charge offerings based on successful trials and pilots run by MEFL.</p>	MEFL	Cost to be confirmed

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
TRANSITION	through MEFL			
	Zero Carbon Innovation with MEFL	<p>Collaborate with others to investigate feasibility and then pilot emerging concepts, technologies, products and financial and contractual models that could enable a more rapid transition to a <u>smart, decarbonised, decentralised</u> and <u>socially just</u> electricity system.</p> <p>Innovative concepts to be investigated include:</p> <ul style="list-style-type: none"> • ‘Moreland Power’ – a pilot is underway to investigate the feasibility of using community-owned renewable energy to deliver benefits to both local community investors and households struggling to pay their energy bills. • Microgrids and Virtual Power Plants – potential pilot sites include CERES and Halpin Street in Brunswick West • ‘Zero Carbon Precinct’ partnership/trial • Solar + Battery integration, Energy Demand Management • Community energy aggregation and energy trading services • ‘Solar Farms’ on industrial roofs • Innovative finance mechanisms to remove the ‘upfront cost barrier’ to energy efficiency and renewable energy (eg Environmental Upgrade Finance (EUF), No Interest Loans, crowd-sourced finance etc). <i>Note: Victorian legislation to extend the Environmental Upgrade Finance (EUF) mechanism to the residential sector is pending.</i> 	<p>MEFL</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> • Jemena and CitiPower • Energy retailers • Energy sector innovators • State Government 	<p>Feasibility exploration and preliminary development of innovative concepts</p> <p>Cost to be confirmed</p> <p>Depending on scope and complexity, innovation concepts may require additional funding (from Council and/or external sources) to pilot and/or scale up. Council funding would be subject to business case prioritisation.</p> <p>MEFL/Council will always seek external co-funding (eg from Victorian Government, Arena and/or CEFC) to support innovation pilots and scale up.</p>

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
	Towards Zero Carbon in the Planning Scheme	<p>Seek to raise the Environmentally Sustainable Design (ESD) standards in new homes, commercial and industrial development, through leadership and collaboration to raise standards and establish the pathway (policy and implementation tools) for zero carbon buildings and precincts through the Planning Scheme and related assessment and compliance processes.</p> <p><i>Note: Changes to the Planning Scheme policy require the approval of the Victorian Planning Minister.</i></p>	<p>Council (ESD and Amendments Units)</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> Council Alliance for a Sustainable Built Environment (CASBE) and member councils Victorian Government (DELWP) 	<p>\$125k referred to 2019/20 budget for additional resourcing for underpinning research for an enhanced ESD Policy. Co-contribution from CASBE and interested member councils TBC.</p> <p>Estimated \$200k in 2020/21 for Planning Scheme Amendment process pending progress in 2019/20.</p>
	Targeted support for low income and vulnerable households to avoid 'energy poverty' and be more comfortable in their homes during extreme weather	<p>Council and MEFL will partner with others to reduce energy poverty within Moreland, including by:</p> <ul style="list-style-type: none"> supporting social housing providers to upgrade the energy efficiency of housing stock and install solar PV through extension of our 'Cooling Communities' initiative ensuring low-income home-owners are aware of options to finance home environmental upgrades at no upfront cost, such as No Interest Loan schemes or residential Energy Upgrade Finance (EUF) (pending legislation). helping to establish 'solar-giving' for the most vulnerable. 	<p>MEFL in collaboration with Council (various teams)</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> Social housing providers Community health and social services providers Solar Victoria 	<p>\$50,000 in 2020/21 to scope a program to provide support to social housing providers.</p> <p>Future years roll out and funding TBD. Note that it will require external co-funding and delivery partnerships to be secured to enable delivery at scale.</p>

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
			<ul style="list-style-type: none"> State Government 	
	Support commercial building owners to improve their buildings' environmental performance at no upfront cost through facilitating Environmental Upgrade Finance (EUF)	<p>Council and MEFL will continue supporting commercial building owners to improve the performance of their buildings through facilitating installation of renewable energy and/or water and energy efficiency upgrades via Environmental Upgrade Finance (EUF).</p> <p>Council will continue collaboration with the Sustainable Melbourne Fund (Better Building Finance) and encourage alternative EUF providers to foster competition.</p>	Council in collaboration with MEFL	Within existing operational budgets.
COMMUNITY ORGANISATIONS / SCHOOLS ENERGY TRANSITION	Support Moreland Schools and Early Learning Centres (ELCs) to install solar PV, save electricity, and involve children and their families in climate action	<p>Increase the support available to Moreland schools and ELCs, including through:</p> <ul style="list-style-type: none"> MEFL's free advice and support on energy efficiency and renewable energy options, as well as helping schools to raise funds for solar PV Subsidising more schools and ELCs to participate in ResourceSmart Schools – 'Energy' and 'Core' modules (facilitation by CERES) 	MEFL, Council and CERES	Covered as part of proposed Zero Carbon Behaviour Change program budget (refer to page 9)
	Support community organisations to undertake energy transition initiatives	<p>Support community organisations through:</p> <ul style="list-style-type: none"> Encouraging community groups that are leasing Council facilities to install solar PV at no upfront cost via Council's 'Solar on Leased Facilities' program Encourage community groups to apply for a Community Grant to develop energy efficiency or renewable energy initiatives that 	Council and MEFL	Within existing Operational budgets

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
		benefit the Moreland community.		
COUNCIL (CORPORATE) ENERGY TRANSITION	Buy electricity from Crowlands Wind Farm to cover 100% of Council's electricity demand	A 10-year Power Purchase Agreement (PPA) with Pacific Hydro and Tango Energy is providing Council with renewable energy from the new Crowlands Windfarm, near Ararat, to meet Council's electricity demand (ie. for all buildings, facilities, street and park lighting where Council pays the electricity bill).	Council	Within existing Operational budgets
	Ensure Council builds highly energy efficient buildings, including onsite renewables and 'no new fossil gas'	<p>Council's building program (new builds, upgrades and renewals) will be delivered to meet (or exceed) ESD standards set in the Moreland Sustainable Buildings Policy (as revised from time to time).</p> <p>In addition, over the five-year period, Council will:</p> <ul style="list-style-type: none"> • Aim for 'Passive House' certification for the Wheatsheaf Hub in Glenroy. Passive House is a rigorous, voluntary standard for energy efficiency in a building, which reduces the building's ecological footprint. It results in ultra-low energy buildings that require little energy for space heating or cooling. • Investigate the feasibility and timing of a planned 'phase out' of fossil gas from Council facilities (including aquatic centres) • Pursue ESD excellence in the redevelopment of 33 Saxon Street in Brunswick • Review opportunities for energy efficiency upgrades at Council's many small buildings 	<p>Council</p> <p>Key stakeholders: Building users / tenants</p>	Within existing Capital Works budget (between 5% to 10% marginal cost depending on ESD standard, with payback via ongoing operational saving on utilities)
	Maintain Council's 'Carbon Neutral' organisation certification	Maintain Council's annual 'Carbon Neutral' certification by calculating Council's (corporate) GHG emissions each year and offsetting 'residual emissions' (from use of natural gas and liquid fuels) with 'Gold Standard' carbon offsets.	Council	Within existing Operational budget
	Continue to upgrade public lighting in open spaces to be energy	Continue to progressively upgrade public lighting in Council parks and reserves to energy efficient LEDs.	Council	Within existing Capital Budget

PROMPTER QUESTIONS FOR COMMUNITY AND STAKEHOLDER FEEDBACK

Q 1. GOALS: Do you support the draft Community 2025 Goals for ‘Energy Transition’? How relevant are they to you (or your organisation)? How might you (or your organisation) contribute to achieving these goals?

Q 2. KEY INITIATIVES/ACTIONS: Do you support the ‘Energy Transition’ initiatives we are proposing? Considering the role of local councils in responding to the climate emergency, have we missed something very important? Let us know if you are a stakeholder or potential partner for any of the proposed initiatives.

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
	efficient			
	Seek to upgrade major road lighting to be energy efficient	Seek collaboration with VicRoads, Northern Alliance for Greenhouse Action (NAGA) and the Victorian Government to review feasibility of a regional program to deliver an upgrade of major road lighting	Council with others	Requires external funding, with equitable co-funding arrangement and advocacy effort
PLANNING	Zero Carbon Energy Action Plan 2020-25	Develop a detailed sub-plan to this one, that will drive a coherent strategic approach to the community energy-related components of achieving zero net emissions by the year 2040 under the Moreland 2040 Framework.	MEFL with Council and others	

SUSTAINABLE TRANSPORT: TOWARDS ACTIVE OR ZERO EMISSIONS TRANSPORT

Community 2025 goals - we invite everyone to adopt and help achieve these goals:

- The proportion of people living in Moreland travelling to work by car (as driver) has decreased significantly (as mid-way progress towards MITS mode-shift goals for 2029) (Note: Household survey data)
- Moreland has significantly higher rates of ownership of Electric Vehicles than the Melbourne metropolitan average

Council 2025 targets – we will strive to deliver on these targets:

- <TBC through planning currently underway> kms of new shared path constructed (Note: based on 2019/20 baseline)
- Average emissions across Council's light vehicle fleet of less than 100g/km CO₂-e (combined average as per Green Vehicle Guide)
- Council's heavy vehicles (eg waste trucks) transitioning to zero emissions – pending commercial availability of suitable vehicles and refuelling infrastructure

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
TRANSPORT ADVOCACY CAMPAIGNS	Zero Carbon Advocacy Campaigning - Sustainable Transport	<p>Council will contribute to strong and collaborative advocacy campaigns to seek policy and investment to fast track the transition to active and zero emissions transport across Australia.</p> <p>Highest priority advocacy outcomes sought by 2025 include (but are not limited to):</p> <p><u>Australian Government</u></p> <ul style="list-style-type: none"> • Introduce stringent minimum vehicle emissions standards • Provide tax incentives for lowest emissions vehicles and remove tax incentives that encourage unnecessary driving and vehicle purchase • Prioritise and commit funding to significant public transport infrastructure over road infrastructure spending • Develop an electric and autonomous vehicle strategy to embed positive social and environmental outcomes 	Council in collaboration with other sustainable transport stakeholders	Covered as part of proposed Zero Carbon Advocacy Campaigning budget (refer to page 8) from 2020/21

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
		<u>Victorian Government</u> <ul style="list-style-type: none"> • Increase funding for active transport projects • Develop a statewide policy on speed limits in urban areas 		
FACILITATE 'MODE SHIFT' IN MORELAND TO ACTIVE TRAVEL AND PUBLIC TRANSPORT	Moreland Integrated Transport Strategy (MITS) implementation	<p>The Moreland Integrated Transport Strategy (MITS) aims to facilitate a demonstrable shift to sustainable modes of transport and long-term reduction in private car use. Key MITS implementation strategies include:</p> <p>Sustainable transport priority</p> <ul style="list-style-type: none"> • Prioritise access for sustainable transport modes over car travel, including through road space reallocation. <p>Parking management</p> <ul style="list-style-type: none"> • Expand parking restrictions around activity/neighbourhood centres • Application of maximum car parking rates in Coburg, Brunswick and Glenroy Activity Centres • Expand paid all-day parking in Activity Centres <p>Protect local streets from increasing vehicle traffic</p> <ul style="list-style-type: none"> • Limited trial of 30km/h speed limits • Continued rollout of 40km/h • Selected road closures <p>Encourage community to use sustainable transport modes</p> <ul style="list-style-type: none"> • Education / behaviour change programs - See below 	<p>Council</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> • Victorian Planning Minister • VicRoads 	As per MITS Implementation Plan
	Sustainable Transport behaviour change program	<p>As part of the overarching Towards Zero Carbon behaviour change program, Council will develop and implement sustainable travel behaviour change initiatives to increase rates of walking and cycling (as well as public transport use).</p> <p>A key concept to be developed is a program to involve and empower young people (Grade 5 – 6) to become active travellers (biking, walking, scooting etc) to and from school. Fostering the skills, confidence and a 'social norm' amongst young people has potential to drive 'generational change' towards</p>	<p>Council</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> • Schools 	Covered as part of proposed Zero Carbon Behaviour Change program budget (refer to page 8) and MITS implementation plan (above)

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
ZERO EMISSIONS VEHICLES		<p>sustainable transport (building on the current trend of more young people choosing not to get a driver licence). The initiative would build on lessons from 'walk to school' and 'ride to school' programs. A tailored school-by-school approach is anticipated, ideally also addressing local infrastructure barriers to active travel to school and emphasising co-benefits for children's health and self-confidence.</p> <p>Other concepts requiring further investigation include:</p> <ul style="list-style-type: none"> An E-bike loan scheme – providing interested people with the chance to trial an e-bike or cargo bike over a period of time before purchase. Public events such as Cycloviva or Car Free Days to foster a cycling culture and highlight co-benefits of sustainable travel. 	<ul style="list-style-type: none"> CERES Department of Health 	
	Sustainable travel and commuting by Council staff	Continue promoting and incentivising sustainable travel and commuting by Council staff.	Council	Within existing operating budgets
	Expand the network of public and private Electric Vehicle (EV) charging stations across Moreland and beyond.	<p>Facilitate expansion of the network of public and private Electric Vehicle (EV) charging stations across Moreland and beyond. Supportive actions to include:</p> <ul style="list-style-type: none"> Direct installation by Council of renewably powered fast charge stations to service Council's expanding fleet of EVs (including stations available to the public) Promotion of EV charging infrastructure within or adjacent to new private developments via ESD Policy implementation and seek to raise standards for 'future proofing' developments for broader take-up of EVs Collaboration with 'car share' businesses (eg GoGet, Flexicar etc) to accelerate transition to electric vehicles Share expertise with other local governments and stakeholders to foster expanded charging network across metro area and key regional and interstate routes. 	<p>Council</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> VicRoads Private developers 'Car share' businesses 	Within existing Capital & Operating Budgets

Focus Area	Key Initiatives/ Actions	Description/ delivery approach	Responsibility	Estimated budget
	Transition Council's light vehicle fleet to low or zero emissions vehicles and optimise fleet size	Reduce year-on-year emissions from Council's passenger and light commercial fleet through application of Council's Light Vehicle Policy 2018.	Council Key stakeholders: <ul style="list-style-type: none"> EV manufacturers and importers 	Within existing budgets
	Continue testing feasibility and pathways for the transition from diesel to zero emissions for Council's heavy vehicle fleet	Continue demonstrating Council leadership and commitment to stimulating development of zero emissions hydrogen fuel cell technology in the transport mobility space. Council maintains that a well-balanced and resource responsible path to a zero-emissions transport future will <i>likely</i> see Battery Electric Vehicles (BEVs) fill most of the personal transport space, and Fuel Cell Electric Vehicles (FCEVs) the majority of the commercial and public transport space.	Council Stakeholders: <ul style="list-style-type: none"> State Government Heavy vehicle manufactures 	Progress within existing budgets. New initiative funding subject to Business Case.

PROMPTER QUESTIONS FOR COMMUNITY AND STAKEHOLDER FEEDBACK

Q 1. GOALS: How supportive are you of the draft Community 2025 Goals for 'Sustainable Transport'? How relevant are they to you (or your organisation)? How might you (or your organisation) contribute to achieving these goals?

Q 2. KEY INITIATIVES/ACTIONS: Do you support the initiatives we are proposing? Considering the role of local councils in supporting the transition to sustainable transport, have we missed something very important? Let us know if you are a stakeholder or potential partner for any of the proposed initiatives

WASTE AND CONSUMPTION: TOWARDS A CIRCULAR ECONOMY WITH ZERO WASTE

Community 2025 goals - *we invite everyone to adopt and help achieve these goals:*

- Increase in the proportion of Moreland households composting or worm farming (against 2020 levels)
- Increase in community-based 'share economy' groups/initiatives (eg. Tool libraries, food swaps etc)

Council 2025 targets – *we will strive to deliver on these targets:*

- Council's food and garden organics waste service is delivering 'best in class' outcomes in Victorian context
- Moreland business and commercial generators of food waste have access to the required information and technologies and/or service options to responsibly manage their food and organic waste

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated resourcing
WASTE ADVOCACY CAMPAIGNS	Zero Carbon Advocacy Campaigning - Waste and Consumption	<p>Council will collaborate with others to campaign for action to address Australia's waste crisis and accelerate the transition to a circular economy across Australia.</p> <p>Highest priority advocacy outcomes sought by 2025 include (but are not limited to):</p> <p><u>Australian Government</u></p> <ul style="list-style-type: none"> • Coordinate a national response to the crisis in the Australian recycling industry, prioritizing 'circular economy' opportunities • Expand the product stewardship scheme to include more products, e.g. packaging • Ensure labelling of carbon emissions on products <p><u>Victorian Government</u></p> <ul style="list-style-type: none"> • Acknowledge waste services as an 'essential service' and 	Council with collaborative stakeholders	Within proposed Zero Carbon Advocacy Campaigning budget (refer to page 8) from 2020/21

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated resourcing
		<p>urgently invest landfill levy funds to develop financially and environmentally sustainable waste management in Victoria</p> <ul style="list-style-type: none"> • Build regional facilities and processes for high-capacity recycling and advanced organics processing • Integrate use of recycled products in government purchasing policies and specifications, and support councils and businesses to do likewise. 		
RESIDENTIAL ORGANICS	Food and garden waste kerbside service and infrastructure	<p>Following extended community engagement and detailed implementation planning, introduce a 'best practice' municipal-wide food and garden waste kerbside collection service.</p> <p>As part of Council's aspiration to see zero waste to landfill by 2030, a food and garden waste bin service is ultimately expected to be part of a redesigned 'universal 3-bin bin service' – including collection of residential food and garden waste (weekly), mixed recycling (switched to fortnightly), and garbage to landfill (switched to fortnightly).</p>	<p>Council</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> • Veolia • Metro Waste Group 	<p>As per funding for Waste and Litter Strategy implementation funding</p> <p>Proposed to be funded via Waste Charge</p>
	Food Waste – community behaviour change program	<p>Consistent with the Waste and Litter Strategy, seek to develop and implement 'best practice' food and organic waste education and behaviour change program (leveraging digital platforms, intermediaries, face-to-face engagement and grass-roots campaigning). Target outcomes to include:</p> <ul style="list-style-type: none"> • A campaign to ensure community support and compliance with the new food and garden waste kerbside service • Helping residents to avoid food waste in the first place (through conscious shopping, food swaps, food storage etc) • Increasing adoption of home / community composting/worm farming (via Community Composting Hubs, subsidised compost bins/worm farms from 	Council	<p>As per Waste and Litter Strategy implementation funding</p> <p>Includes dedicated Food and Organic Waste officer and education program currently referred to the 2019/20 budget process</p> <p>Proposed to be funded via Waste Charge</p>

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated resourcing
		www.compostcommunity.com.au etc)		
	Foster tailored solutions for recycling of organic waste from medium- and high-density residential developments	<p>Space constraints and shared services in many medium-and high-density residential developments make kerbside pickup of food waste more challenging. Council will work with neighbouring councils and stakeholders to find and develop solutions, including through:</p> <ul style="list-style-type: none"> For existing residential developments, investigation and trial of on-site composting systems and/or tailored food waste collection services (Council or private providers) For new/future private developments, seek to ensure better waste management infrastructure (including for organic waste stream) through application of best practice guidance in refined planning standards, permit conditions and pro-active enforcement. 	Council (in collaboration with MEFL) and willing developers / building owners / tenants	<p>As per Waste and Litter Strategy implementation funding and Proposed FOGO implementation funding</p> <p>External co-funding likely required for trials of on-site waste management technologies.</p> <p>Proposed to be funded via Waste Charge.</p>
BUSINESS/ COMMERCIAL ORGANICS	Foster solutions for food waste avoidance and organics recycling from food businesses (cafes/restaurants, fresh food markets, food manufacturers etc) and other medium-scale organic waste generators	<p>Collaborate with neighbouring councils and stakeholders to enable businesses to minimise and divert food waste from landfill:</p> <ul style="list-style-type: none"> Investigate and support businesses to trial on-site composting systems and other potential solutions (anaerobic digestion and pyrolysis), and share successes Actively promote food waste avoidance and re-use businesses (such as Reground and Yume Foods) and social enterprises (such as Second Bite and FareShare etc) Review Council's Commercial Plus waste service to consider introduction of an organics collection service. 	Council (in collaboration with MEFL) and willing businesses / waste generators	<p>Within existing budgets.</p> <p>External funding likely required for on-site waste management trials.</p>
CIRCULAR ECONOMY (BEYOND	Towards Zero Waste Communities, Businesses and Schools	Through implementation of the Waste and Litter Strategy 2018, develop and deliver 'best practice' behaviour change and initiatives to foster zero waste and 'circular economy' principles.	Council	As per Waste and Litter Strategy implementation funding and Economic

Focus Area	Key Initiatives/ Actions	Description / delivery approach	Responsibility	Estimated resourcing
ORGANICS)		<p>Key implementation initiatives include:</p> <ul style="list-style-type: none"> Community engagement and education focused on contamination of kerbside recycling and single-use plastic. Promote participation in local sharing economy groups (eg Good Karma Networks, ShareMelbourne, 'repair cafes' and 'tool libraries' etc) Promote Council's Community Grants Program as a way to supports groups, organisations and individuals to implement zero waste initiatives that benefit the Moreland community. Business Moreland support for businesses to be environmentally-friendly and resource efficient, and foster emergence of social enterprises and entrepreneurs applying circular economy principles. 	<p>Key stakeholders:</p> <ul style="list-style-type: none"> CERES Schools Council building tenants and users Community sharing economy initiatives 	<p>Development strategy.</p> <p>Covered by proposed dedicated recycling and plastic-wise officer and education program request referred to 2019/20 budget to be funded via Waste Charge.</p>
	Towards Zero Waste Council	<p>Lead by example (and influence our supply chain) to reduce Council's operational waste and the carbon footprint of Council's facilities and services, including by:</p> <ul style="list-style-type: none"> Specifying use of recycled content and/or 'carbon positive' materials in Council construction projects eg recycled-content bollards / benches, cement and asphalt, cross-laminated timber etc Ensuring Council events, festivals and offices are 'waste-wise' and eliminating use of single-use plastic items Increasing use of local and environmentally-friendly caterers for Council meetings and Civic events, avoiding packaging waste and prioritising seasonal and vegetarian selections. 	<p>Council</p> <p>Key stakeholders:</p> <ul style="list-style-type: none"> Council suppliers Manufacturers of recycled content materials State Government Metro Waste 	<p>As per Waste and Litter Strategy implementation funding</p> <p>Partly covered by proposed dedicated recycling and plastic-wise officer and education program request referred to 2019/20 budget to be funded via Waste Charge</p> <p>And partly covered by existing resources.</p>

PROMPTER QUESTIONS FOR COMMUNITY AND STAKEHOLDER FEEDBACK

Q 1. GOALS: How supportive are you of the draft Community 2025 Goals for 'Waste and Consumption'? How relevant are they to you (or your organisation)? Can you suggest other goals that could be considered?

Q 2. KEY INITIATIVES/ACTIONS: Do you support the initiatives we are proposing? Considering the role of local councils in supporting the transition to sustainable waste management and a 'circular economy', have we missed something very important? Let us know if you are a stakeholder or potential partner for any of the proposed initiatives

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LONGER-TERM OPPORTUNITIES (2025 – 2030)

The key programs and actions listed previously describe our proposed high priority activities for implementation through 2020 – 2025, pending funding availability.

Several longer-term opportunities were also noted in the Zero Carbon Moreland - 2040 Framework and through stakeholder consultations. Keeping up to date on emerging opportunities is an ongoing activity. Through work streams including the Zero Carbon Innovation Program, Council and delivery partners including MEFL will retain flexibility to investigate the feasibility of emerging solutions and undertake pilots as the external opportunities emerge (e.g. new grant funding programs, new business or financing models etc). This could mean that work on a longer-term concept is brought forward and other initiatives (that are not proving effective) are put on-hold or revised.

Longer term concepts include:

- Facilitate engaged residents/investors to invest in 100% renewable energy – solar gardens / solar farms / Power Purchase Agreements
- Facilitate residents to participate in and benefit from energy trading
- Incentivise EV uptake – e.g. parking permit fee-waver etc.
- Test integration of EVs into grid management
- Transition Council aquatic centres to alternatives to fossil gas (ie heat pumps)
- Develop partnership and project plan for clean-tech incubator hub
- Initiate a zero-carbon precinct alliance.

MONITORING OUR PROGRESS TO 2025

Prior to the finalisation of this Zero Carbon Moreland – Action Plan 2020 – 2025, Council will document an overarching ‘Program Logic’ for the Zero Carbon Moreland transition, which will graphically describe how our extensive program of initiatives and actions designed to progress towards our Vision for zero carbon in Moreland by 2040 is intended to work.

Program Logic models are a very powerful tool for creating a dialogue and shared understanding of a program between different stakeholders. They can express a ‘chain of reasoning’ linking investment and activities with outputs, intermediate impacts and longer-term outcomes. The overarching Program Logic, and potential sub-models for Energy, Transport and Waste, will be a critical element of establishing our program monitoring and evaluation. It will help us confirm our Community goals and Council targets are appropriate and will likely identify some new progress indicators.

A summary of the Program Logic and Monitoring and Evaluation Framework will be included in the final Action Plan for adoption. Key activities and achievements through implementation of the Zero Carbon Moreland Action Plan will be reported to Council in June each year, including progress against targets (pending data availability).

The concept of a ‘Moreland Emissions Progress Monitoring Tool’ is being investigated by MEFL to clarify value and feasibility. Conceptually, the tool would provide ongoing capacity for drawing on data from a range of sources such as Victorian Energy Efficiency Certificates and the Australian Photo Voltaic Institute as well as macro sources such as ABS and ABARES statistics. Such a tool

may have potential to provide insight into the emissions profile of the Moreland community. It could provide a way for the community, Council and MEFL to measure progress in emissions reduction and inform refined initiatives.

PROMPTER QUESTIONS FOR COMMUNITY AND STAKEHOLDER FEEDBACK

Q 1. Would public reporting on per capita and total emissions be useful? Are there ways that this will assist you or your organisation to pursue a safe climate?

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