Becoming a Low Carbon Community

An Action Plan





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^{*}Cover page photo: Wesley Markets

Chair's Foreword: Becoming a Low Carbon Community

This local low carbon plan, *Becoming a Low Carbon Community – An Action Plan,* is a positive step towards Auckland's transformation into an energy-resilient low carbon city, and we are grateful to the local individuals and organisations who participated in the process to create this plan.

We are proud to be the second local board to develop our own plan. It is a living document and is intended to work in conjunction with Council's *Low Carbon Auckland: Auckland's energy resilience and low carbon action* and the *Auckland Plan*.

This local low carbon plan aligns with our local board aspirations to create a connected low carbon community that has a sense of belonging, is safe and healthy, has a thriving local economy, with sustainable transport choices, development to meet our needs, and vibrant parks and facilities within a wonderful natural environment.

The implementation of this plan will only be possible with the support of the Puketāpapa community. In Puketāpapa, our neighbourhoods are among the most ethnically diverse in Auckland and it's important that everyone feels included. There are already so many active individuals, organisations, and businesses taking low carbon actions in Puketāpapa. This plan is an acknowledgement of what is already happening, as well as what is possible.

Becoming a Low Carbon Community – An Action Plan brings together a range of possible actions to support the adoption of low carbon practices and reduce carbon emissions within households, the wider community, businesses, across transport and housing. Importantly, many of the low carbon actions people can take also result in residents saving money and improving their health and wellbeing.

Across the region, there is a lot of work already underway that aligns with our local low carbon aspirations. For example, we are delighted to see progress being made towards bringing light rail through Mt Roskill. In addition, a number of park developments are well underway and many of our major parks and facilities are now connected by a network of safe cycling and walking paths. We'd love to see this network grow so that people have safe, active transport alternatives.

I invite all Puketāpapa residents to join with us in *Becoming a Low Carbon Community*.

Harry Doig

Chairperson, Puketāpapa Local Board

1 Introduction

Puketāpapa Local Board's vision is to create a connected low carbon community that has a sense of belonging, is safe and healthy, has a thriving local economy, with sustainable transport choices, development to meet its needs; and vibrant parks and facilities within a wonderful natural environment.

Puketāpapa Local Board recognises the importance of climate change and the need to take local action to ensure that we meet our regional, national and global climate change targets. This Low Carbon Plan shows our commitment to support low carbon initiatives in Puketāpapa.

The Auckland Plan, and subsequent Low Carbon Auckland: Auckland's Energy Resilience and Low Carbon Action Plan lay the foundation for Auckland's transformation to a highly energy resilient, low carbon city. They set an aspirational target of a 40 per cent reduction in greenhouse gas emissions by 2040 (based on 1990 levels). To achieve this goal the plans set out the need for an Auckland-wide focus. This will require collaboration and cooperation between businesses, industry, government and communities. An essential ingredient of this is action at a local level, where we contribute at a community level in taking collective action needed for Auckland's transformation, to meet New Zealand's climate change commitments, and the global United Nations Sustainable Development Goals – which came into effect in January 2016.

This action plan can only be successfully implemented with the support and participation of the Puketāpapa community. We invite you to join us in implementing this plan, and we encourage community groups and residents to become a part of leading our transition towards a low carbon future within Tāmaki Makaurau.

As international and local knowledge and learning increase, and as new opportunities are identified, this plan will be updated within the next three years, and will remain a living document.

2 Our Current Carbon Footprint – 402,000 tonnes CO2e pa

The Puketāpapa area is home to 60,000¹ residents. With an average carbon footprint of 6.7 tonnes per person for Aucklanders, the Puketāpapa local board area generates an estimated 402,000 tonnes of carbon dioxide emissions (CO₂e) per annum².

3 Puketāpapa's Low Carbon Goal and Targets



Figure 1 Image source Energap - Visualising One Tonne of CO₂ Emissions

The Auckland Low Carbon Action Plan sets out detailed targets and actions to show how Puketāpapa can support achieving Auckland's goal of a 40 per cent reduction in greenhouse gas emissions by 2040 [based on 1990 levels]. For Puketāpapa residents, this will mean reducing their carbon footprints from 6.7 tonnes of CO₂e emissions per person, to 3 tonnes per person per year by 2040³. This equates to a 161 kg reduction in carbon emissions per person per year for the next 23 years.

4 What are Low Carbon Actions?

Low Carbon actions are projects and activities which result in changes to our businesses, infrastructure, buildings, consumption patterns and behaviour which lead to a reduction in greenhouse gas emissions.



In October 2017 Auckland Council launched a new community and council initiative - Live Lightly - Noho Māmā, which shows everyday lifestyle choices we can all make to save money, have a healthier life and enjoy Papatūānuku! It is a collaboration between community groups, Auckland Council and partners aiming to engage with Aucklanders and

offer ways people can make a real difference. Feedback from mana whenua indicated a need to focus on low or no cost solutions and initiatives enabling behaviour change. Find out more about Live Lightly on www.facebook.com/livelightlyakl/

¹http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/localboardplans/Documents/puketapapadlbp2017.pdf

² Based on an average carbon footprint of 6.7 tonnes CO₂e per annum for each of the 60,000 residents

³http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/Documents/lowcarbonauckactionplanfullversion.pdf

5 Developing the Plan

A Climathon was held in May 2017. Eighteen representatives from the community including WISE (Women in Social Enterprise) Collective, Earth Action Trust, Sanitarium, Wesley Community Centre, Global lighthouse, Urban Eco-living Charitable Trust, Critical Pixels Design social enterprise, spent a day generating ideas and creating plans for low carbon community projects. A full list of ideas raised is provided in Appendix 1. From these ideas we have identified seven key focus areas, flagship projects and detailed actions.

A stocktake of local and Auckland wide low carbon initiatives, which will make a positive contribution towards reducing Puketāpapa's carbon footprint, was also undertaken. A summary of these initiatives is provided in Appendix 2. Targets and actions contained within the stocktake, which can be amplified through the implementation of this Action Plan have been incorporated.

Climate change means warmer temperatures, increased drought, rising sea level, increases in rainfall and increasing number of storm events. Actions which reduce the impact of these changes, and improve the resilience of our community, have also been incorporated within this plan.

Auckland Council is currently working to refine climate change projections for the Auckland region. An assessment prepared in collaboration with NIWA provides more detail on the nature of projected impacts for the Puketāpapa area. This action plan will be updated to reflect these findings as solutions emerge with time.

6 Implementing the Plan

The intention of this Action Plan is implementation and ownership by the whole community. The Puketāpapa Local Board will support the implementation of this Action Plan where possible through a variety of mechanisms including: advocacy (including to other governing bodies); funding to enable local project delivery; further investigation of potential low carbon initiatives, leadership (delivering projects directly as well as enabling and encouraging others); partnerships; promotion; monitoring and recognition.

7 The Action Plan

Our Low Carbon Action Plan focuses on seven key action areas. For each of these areas the Action Plan includes:

- Targets based on achieving regional, national and global greenhouse gas emission reduction targets
- Opportunities to amplify existing regional and local initiatives
- Actions suggested through the Climathon process, including:
 - Seven flagship low carbon projects which we will endeavour to support and where possible, prioritise seed funding
 - o A monitoring framework for measuring progress against these targets.









Figure 2 Everyday lifestyle choices we can all make to save money, have a healthier life, and care for the planet

	Action Area	Flogship Project ⁴
	Action Area	Flagship Project ⁴
1	Championing Change	A Puketāpapa Low Carbon Network A low carbon network with regular get-togethers designed to empower and enable local climate champions to meet our low carbon targets. This will require a facilitator to establish and coordinate this group with the support of the council Low Carbon Team.
2	Low Carbon Food	Community Garden, Fridge and Education Centre Identify and encourage initiatives which promote growing and sourcing food locally, sharing the surplus, reducing and composting all food waste. Supporting regional efforts to co-ordinate Auckland's food system at a local level ⁵ . This may include actions such creating a free food map showing our markets, fruit trees, community gardens, fridge and education centre, and all activities that promote growing and sourcing food locally, provide a food matching service to share the surplus and reduce our food waste.
3	Low Carbon Homes and Buildings	Warrant of Fitness for Rental Homes Amplify the uptake of energy efficiency in our rental homes through increased delivery of our Healthy Rentals initiative to support and empower renters and work with landlords to ensure that all rental properties are insulated to comply with new regulations coming into force by 1 July 2019 ⁶ .
4	Shop Low Carbon	Tracking our Footprints Measure and track the carbon footprints of residents through the promotion of the carbon footprint tool, and use this data to inform Low Carbon Network projects.
5	Low Carbon Consumption and Business	A Puketāpapa Low Carbon Economy Network Develop a network to support the adoption of low carbon practices by the local business community, partnering to design and deliver low carbon initiatives and create a profitable local low carbon economy.
6	The Way We Travel	A Community Transport Innovation Promotion Promote walking, cycling, public transport, and ridesharing - with a carpooling and sharing initiative, designed to maximise the use of T2 and T3 lanes, and exploring the use of existing carparks as meeting points.
7	Green Spaces	A Beautiful Carbon Sink Encourage every Puketāpapa resident to support the planting of a tree every year until 2040, to plant a million trees in Puketāpapa and beyond. Empowering local residents, businesses and groups to accelerate the planting of trees, increase carbon capture, biodiversity and the health and beauty of Puketāpapa, Tāmaki Makaurau and Aotearoa.

⁴ Note that these flagship projects may be subject to change, due to community interest and further legislative changes.
⁵ Food system: comprises the production, processing, distribution, consumption and waste recovery / disposal of food
⁶ https://www.tenancy.govt.nz/maintenance-and-inspections/insulation/compulsory-insulation/

7.1 Championing Change: Live Lightly, Noho Māmā

One of the strongest themes at our Climathon was the desire to create a network of low carbon champions across Puketāpapa, sharing ideas and examples and rewarding successes within the community to empower the community to adopt low carbon living.

With a multi-ethnic mix of Asian⁷, Pacific, Middle Eastern, Latin American and African people that adds to the rich heritage of first Māori, then European residents, there is an opportunity to draw on



our diversity to empower and enable our communities. We will prioritise activities led by the community, encouraging and supporting people from all walks of life to actively participate in low carbon initiatives in their community, using the talents, insights and contributions of our diverse community. We will work together to enable our communities to achieve our targets.

Our Targets

- Create a network of low carbon Live Lightly champions for homes, schools, business and community. Improving education, raise awareness and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning, with a focus on women and youth, as well as local and marginalised communities.
- By 2020, at least 300 residents have measured and can track their carbon footprints, as they adopt recommendations to reduce their carbon emissions.

Our Actions

A Puketāpapa Low Carbon Network: Create a Puketāpapa low carbon network with regular get- togethers designed to empower and enable local climate champions to meet our low carbon targets. A facilitator will be required to co-ordinate the establishment of this group with the support of the council Low Carbon Team.

- Implement our flagship projects to seed the development of a Puketāpapa low carbon network
- Provide support to co-ordinate and host low carbon events and training sessions, providing tools, training and resources for the Low Carbon Network, empowering residents to start a conversation about climate change issues and solutions. Create a new low carbon street award, linking to neighbours day, for those embracing tree planting, low carbon transport and lifestyle options. Profile and incentivise low carbon role models within the community. Work with mana whenua to identify and deliver low carbon outcomes for Māori

⁷ Sri Lankan, Filipino and Korean.

- Celebrate successes and communicate low carbon living ideas e.g. low carbon cool ideas blog, low carbon street, low carbon star award
- Support low carbon community education events
- Provide funding support for projects which support low carbon and live lightly themes.

Ten most effective actions for residents to Live Lightly

Recent research conducted by Auckland Council identified the 10 most effective actions for residents to 'Live Lightly" to reduce their carbon footprints. These actions form the basis of the Council's new Live Lightly campaign which is designed to empower communities to take practical actions to reduce their climate change impact.

- Reduce your car trips
- Reduce the impact of flights
- Prevent food waste
- Eat more plant-based meals
- Eat local and seasonal food
- Use hot water efficiently
- Insulate your home
- Think before you buy
- Grow biodiversity at home and beyond
- Start a conversation about climate change issues and solutions.



Figure 3 Insulate for a warmer, drier, healthier home and save money on power bills

7.2 Low Carbon Food

Supporting the consumption of local, seasonal food and plant based meals, as well as the prevention of food waste within Puketāpapa. This will help bring the community together, empowering local businesses and enabling residents to share their rich cultural food heritage while reducing our food related carbon emissions.

The food we purchase and throw away makes up 52 per cent of our personal daily carbon emissions⁸. How and where food is produced, processed, distributed or wasted all has a big impact. New Zealanders throw away 122,547 tonnes of food a year⁹. We waste food by buying too much, storing it incorrectly and it going off in the fridge. This also contributes to climate change with methane emissions from rotting food.

Our Targets

- To increase the ability of our residents to enjoy locally produced seasonal food with a low carbon footprint measured as km² of urban agriculture
- Composting facilities and/or services at all community facilities, local food markets and schools by 2020
- Over 300 residents have completed Compost Collective workshops by 2020 and have set up composting systems for their home, business or community.

Our Actions

Community Garden, Fridge and Education Centre

Identify and encourage initiatives which promote growing and sourcing food locally, sharing the surplus, reducing and composting all food waste. Supporting regional efforts to co-ordinate Auckland's food system at a local level¹⁰. This may include actions such creating a free food map showing our markets, fruit trees, community gardens, fridge and education centre, and all activities that promote growing and sourcing food locally, provide a food matching service to share the surplus and reduce our food waste.

 Recognise, promote and strengthen the value and contribution of local urban and rural food systems to improve resilience, resource use efficiency and community food security¹¹. Assess Puketāpapa's local food production and distribution capacity, the potential degree of self-sufficiency, and the associated opportunities and benefits¹²

⁸http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/Documents/lowcarbonauckactionplanfullversion.pdf

⁹ lovefoodhatewaste.co.nz/food-waste/what-we-waste/

¹⁰ Food system: comprises the production, processing, distribution, consumption and waste recovery / disposal of food

¹¹ DIRECTIVE 8.6: http://theplan.theaucklandplan.govt.nz/

¹² Action 16

- Ensure on-going production of perishable horticultural commodities close to urban markets by preserving high-class agricultural soils and setting aside land in new and redeveloped urban areas for garden allotments¹³
- Support effective ways of reducing carbon emissions by reducing waste in the planning, production, consumption and disposal of food¹⁴
- Enhance existing education and outreach programmes to achieve sustainable urban food production¹⁵
- Support the regional efforts to co-ordinate Auckland's food system at a local level 16. Including the identification of policy gaps, and improved coordination, across these and the wider food system, to enhance and build resilience for Auckland's food system in collaboration with key stakeholders
- Encourage local food production, including the creation of community demonstration gardens and surplus food exchanges
- Develop a list of retailers, cooking classes and food premises that sell local, seasonal, plant based foods, while minimising food waste
- Encourage schools to install educational food gardens, and to compost, promoting initiatives like Garden to Table
- Promote the reduction of food waste and composting, including compost collective workshops for homes
- Encourage local businesses and community organisations to reduce their food waste, share any surplus and compost.



Figure 4 Reduce food waste and compost your scraps

http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/Documents/lowcarbonauckactionplanfullversion.pdf

 $\underline{http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/Documents/lowcarbonauckactionplanfullversion.pdf}$

 $\underline{\text{http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/Documents/lowcarbonauckactionplanfullversion.pdf}$

¹³ Action 17 Action 16

¹⁴ Action 8:

¹⁵ Action 18:

¹⁶ Food system: comprises the production, processing, distribution, consumption and waste recovery / disposal of food

Live Lightly

Prevent food waste

Eat more plant-based meals

Eat local and seasonal food

What you can do:

- Choose local seasonal food
- Try a plant based diet or introduce Meat Free Mondays to reduce your carbon footprint
- Reduce your food waste lovefoodhatewaste.co.nz
- Reduce food and garden waste, attend a free workshop and receive a discount on a composting system compostcollective.org.nz
- Zero Waste Marae parakore.maori.nz
- Seek funding: Local Board Community Grants, Waste Minimisation and Innovation Fund.

Share a photo of your vege garden, local, seasonal, plant based meal or compost system on social media: www.facebook.com/livelightlyakl/ www.livelightly.nz #puketapapalivelightly



Figure 5 Try a plant based meal e.g. Masala Dosa and Dhal

Puketāpapa local board supports the United Nations Sustainable Development Goals for Climate Zero Hunger.



7.3 Low Carbon Homes and Buildings

With Puketāpapa's population expected to reach 74,000 by 2033, our area is marked for major housing development as Auckland gears up for growth. With this development comes the opportunity for agencies and communities to work together to provide healthy, affordable, well-connected, low carbon housing.

There is also the opportunity to reduce carbon emissions resulting from the energy and refrigerants used by our existing community facilities, commercial buildings and 16,700 existing homes¹⁷. Our focus is on becoming more energy efficient, reducing refrigerant losses and increasing the uptake of solar and wind technologies to lower carbon emissions. These changes result in reduced costs, better health outcomes and greater resilience for our communities.

Our Targets

- To improve the energy performance of existing buildings and ensure all new buildings are low or zero carbon¹⁸
- All rental properties insulated to comply with new government regulation by 1 July 2019
- Reduce carbon emissions from community facilities by 40 per cent by 2040¹⁹
- Reduce carbon emissions from community facilities by 1.7 per cent per annum.

Our Actions

Warrant of Fitness for Rental Homes

Amplify the uptake of energy efficiency in our rental homes through increased delivery of our Healthy Rentals initiative, to support and empower renters. Work with landlords to ensure that all rental properties are insulated to comply with government regulation by 1 July 2019²⁰.

- Explore opportunities to provide additional support e.g. subsidies, bulk buying, working with landlords
- Improve access, and enable greater uptake of existing initiatives to improve household energy efficiency, and levels of insulation in Puketāpapa's buildings.
 Including those offered by Auckland Council, Ministry of Business, Innovation and Employment, the Energy Efficiency Conservation Authority, New Zealand Green Building Council and others
- Support the reduction of energy costs and carbon emissions across the community by encouraging energy audits and working to increase the uptake of energy and water efficient appliances, fixtures and fittings

¹⁷ http://www.censusauckland.co.nz/local-board-view/

¹⁸ https://www.tenancy.govt.nz/maintenance-and-inspections/insulation/compulsory-insulation/

¹⁹ Data is currently available

²⁰ https://www.tenancy.govt.nz/maintenance-and-inspections/insulation/compulsory-insulation/

- Ensure that community facility carbon emissions are reduced and all maintenance, redevelopment or new building is carried out in accordance with environmental best practice
- Investigate opportunities to increase the uptake of solar and wind energy sources and amplify the uptake of low carbon technology products e.g.: renewable energy, solar, energy and water efficient appliances; and electric vehicles, through collaboration and community initiatives. Investigate opportunities to collaborate with developers, Housing New Zealand and central government to ensure developments are low carbon or zero carbon and eliminate the use of fossil fuels
- Investigate opportunities to collaborate with developers, Housing New Zealand and central government to ensure developments are low carbon or zero carbon and eliminate the use of fossil fuels
- Encourage a range of buildings to accommodate the needs of small businesses and offer a variety of housing choices.

Live Lightly

Use hot water efficiently Insulate your home

What you can do:

livelightly.nz/what-you-can-do/energy

- EcoAdvisor Get advice on the right materials and strategies to create a warmer, drier and more sustainable home
- HEAT Kit Hire a Home Energy Audit Toolkit to check your home insulation and find out how you can save on your power bill
- Healthy Rentals Get advice and assistance for tenants and landlords to help create a healthy and energy efficient home
- Seek Homestar or Greenstar certification nzgbc.org.nz
- Seek funding: Insulation Grant.

Share a photo of your homes eco-design features on social media: www.facebook.com/livelightlyakl/ www.livelightly.nz #puketapapalivelightly

7.4 Shop Low Carbon

Each product, bought, used, consumed and disposed of comes with its own carbon footprint. Low carbon consumers are consumers who are well informed and think carefully before purchasing a product.

They consider how to save money and reduce their carbon emissions by sharing products, buying quality products that last, choosing to repair, buying second hand, shopping local, and improving their and the environment's health and wellbeing by choosing products with sustainably sourced local materials and ingredients. Shopping in this way means less carbon emissions and less waste. Tools like environmental certification and labels help make these choices easier.

Our targets

- An average carbon footprint for Puketāpapa residents of three tonnes per person by 2040
- To encourage residents to think before they buy and to choose low carbon locally made products and services
- Reduce household waste per capita per annum by 30 per cent to 110kg by 2018.²¹

Our Actions

Tracking our Footprints

Measure and track the carbon footprints of residents through the promotion of the carbon footprint tool²², and use this data to inform Low Carbon Network projects.

- Work with local community environmental organisations, Environmental Choice, the Energy Efficiency Conservation Authority, Consumer New Zealand and other organisations to support initiatives that encourage low carbon consumption habits and choices e.g.: local food, Buy Puketāpapa Made/ locally made, Ban the Bag, preloved or recycled products
- Promote zero carbon events, low carbon living and consumption with a focus on encouraging activities, events and stall holders which celebrate the live lightly low carbon message to think before you buy, and to buy locally made low carbon products and services
- Encourage and support projects which enable more sharing e.g. tool library
- Support the development of a local community waste drop off centre or area, and workshops that help people fix things.

²¹ wasteplan.aucklandcouncil.govt.nz

²² To be launched 2018

Live Lightly

Think before you buy

Challenge: Make every dollar count by choosing to reduce your consumption or to buy locally produced sustainable products and services

What you can do:

- Buy quality, local, preloved or recycled products
- Look out for local repair cafes to fix anything broken
- Look for environmental certification on products: Environmental Choice, Declare, and high water and high energy star ratings on appliances, fixtures and fittings
- Sign up for the Sustainable Whanau Challenge
- Sign up to the Ecomatters newsletter to find out about local eco-events and training ecomatters.org.nz.

Share a photo of your favourite low carbon business or product on social media: www.facebook.com/livelightlyakl/ www.livelightly.nz #livelightlyPuketāpapa



Figure 6 Shop local and in season

7.5 Low Carbon Economy

The local board has a development plan aimed at boosting the local economy and seeks to open up business and employment opportunities and foster innovation. Wholesale trade is Puketāpapa's largest industry, followed by education and training, then manufacturing. The construction sector also shows strong growth. Puketāpapa is home to many small businesses.

With over 4,000 businesses and 9,350 people working in Puketāpapa there is a significant opportunity to reduce the carbon emissions created by our businesses²³.

Our targets

- Create a low carbon network for Puketāpapa businesses to foster the development of a profitable local low carbon economy
- To support low carbon businesses and social enterprises
- At least 100 local businesses implementing low carbon plans to achieve carbon reduction targets by 2020.

Our actions

A Puketāpapa Low Carbon Economy Network

Develop a network to support the adoption of low carbon practices by the local business community, partnering to design and deliver low carbon initiatives and create a profitable local low carbon economy

- Support the adoption of low carbon practices by the local business community, supporting emerging businesses and social enterprises to adopt and generate low carbon outcomes, with a focus on generating employment, reducing resource consumption, and carbon emissions while producing high quality products and services
- Lead the development of a low carbon programme targeted at supporting businesses to reduce greenhouse gas emissions and to adopt low carbon practices. For example: Work with Council officers to create, identify or deliver programmes from Auckland Council, council-controlled organisations, and other organisations that support businesses becoming part of a low carbon economy
- Encourage the development of businesses and social enterprises that reduce resource consumption and carbon emissions, especially those that involve the sharing, reuse or recycling of resources
- Investigate the opportunity to initiate a low carbon group buying scheme.

²³ http://stateoftheenvironment.ogilvyinteractive.co.nz/demographic-report-card/puketapapa-local-board-2013/

Live Lightly

Think before you buy

Challenge: Make every dollar count by choosing to reduce your consumption or to buy or sell locally produced sustainable products
What you can do:

- Buy local, preloved or recycled products
- Measure your carbon footprint
- Get an energy audit, monitor and manage your energy consumption
- Support the Earth Action Trust
- Join the Sustainable Business Network <u>sustainable.org.nz</u>
- Join the NZ Sustainable Business Council sbc.org.nz.

Share a photo of your favourite low carbon business or product on social media: www.facebook.com/livelightlyakl/ www.livelightly.nz #puketapapalivelightly



Figure 7 The Hive at Roskill Youth Zone

7.6 The Way We Travel

Fossil fuels burnt for transport produce 17 per cent of New Zealand's overall carbon emissions and 40 per cent of our individual footprints²⁴. By encouraging walking, cycling, train, bus, ride sharing, as well as the use of electric vehicles in Puketāpapa we will support a reduction of these emissions.

Our Targets

- Create a community transport innovation hub to increase the use of low carbon travel options by 2020
- 100 per cent of Puketāpapa schools participating in Travel Wise by 2020
- 22 public electric vehicle charging points by 2020.

Our Actions

Create A Community Transport Innovation Promotion Project

Promote walking, cycling, public transport, and ridesharing - with a carpooling and sharing initiative, designed to maximise the use of T2 and T3 lanes, and exploring the use of existing carparks as meet points.

- Work with Auckland Transport to create a Travel Plan²⁵ for Puketāpapa which creates an inventory of existing and proposed sustainable travel infrastructure and resources, consulting with the community to identify potential improvements.
- Support the expansion of a green network of cycleways and walkways across the community
- Support the development of local share car schemes and carpooling for areas outside bus routes (e.g. Gifford Avenue)
- Increase awareness of electric vehicles, and their carbon emission benefits, by encouraging and advocating for the provision of public electric vehicle charge points
- Support local schools actively encouraging walking and cycling through the Travelwise programme. Seek feedback from schools on improvements required to increase students walking and cycling.
- Encourage local businesses to develop Travel Plans which support ride sharing and enable low carbon transport options.
- Support initiatives which increase bike use (e.g. signage, teaching, bike parks at bus stops and shops)
- Endorse and encourage initiatives for long term planning and infrastructure solutions for low carbon transport
- Actively encourage bus and public transport use and support the provision of public transport incentives.

²⁴http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/Documents/lowcarbonauckactionplanfullversion.pdf

²⁵ The Puketāpapa Travel Plan will map existing and proposed infrastructure, routes across all low carbon travel modes, and identify actions required for improving accessibility of low carbon transport across the community.

Live Lightly

Reduce your car trips
Reduce the impact of your flights

Challenge: Leave your car at home What you can do

- Walk or cycle more
- Plan your bus or train trip AT.govt.nz
- Find someone to share a ride with smarttravel.org.nz
- Have your say, make low carbon suggestions in your submissions on plans for Auckland transport infrastructure and services
- Have a staycation, or offset your carbon emissions if you need to fly
- Funding: Local Board Community Grants.

Share a photo of your green travel choices on social media: www.facebook.com/livelightlyakl/ www.livelightly.nz #puketapapalivelightly

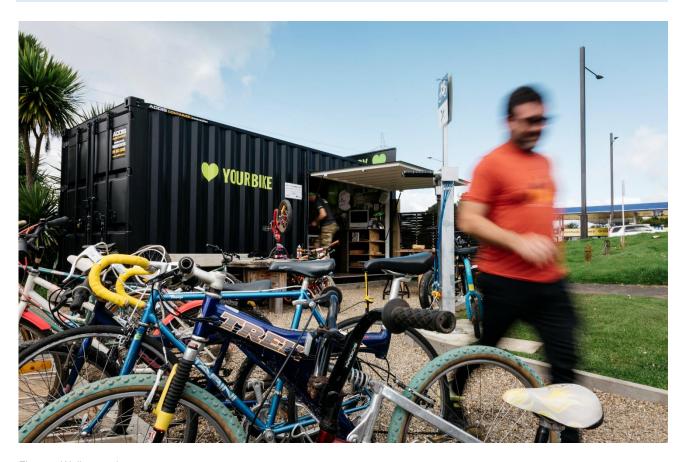


Figure 8 Walk or cycle more

7.7 Green Spaces

Maintaining, developing and creating more green spaces within Puketāpapa will help reduce the impact of climate change on our communities and maximise carbon sequestration by capturing carbon from the atmosphere.

Increasing the amount of tree canopy cover through street trees, our parks, riparian corridors including vegetation along Oakley Creek, on green roofs and in gardens will help keep us cooler in summer, and reduce the impact of heavier rainfall and flooding resulting from our changing climate, as well as supporting our native ecosystems.

Our Targets

- Strengthen resilience to climate-related hazards and natural disasters²⁶
- Expand our existing network of tree-based ecological corridors and stepping stones for wildlife across our landscape to achieve a 50 per cent increase in carbon sequestration (compared with 2014 levels) by planting ecological corridors²⁷
- Collaborate with partners to increase the Puketāpapa urban tree canopy cover from 20.4 per cent (2013) to 35 per cent by 2040
- Encourage at least 30 per cent tree canopy cover for our streets
- Encourage every Puketāpapa resident to support the planting of a tree every year until 2040, to plant another million trees in Puketāpapa, Tāmaki Makaurau and Aotearoa.²⁸

Our Actions

Create A Beautiful Carbon Sink

Encourage every Puketāpapa resident to support the planting of a tree every year until 2040, to plant a million trees in Puketāpapa and beyond. Empowering residents, businesses and groups to accelerate the planting of trees, increasing carbon capture, biodiversity and the health and beauty of Puketāpapa, Tāmaki Makaurau and Aotearoa.

- Develop an Urban Forest Plan for Puketāpapa²⁹
- Create a community led process to encourage residents to plant, adopt or nominate a tree for protection, revisiting the list of existing trees previously developed to explore the possibility of scheduling and protection
- Encourage green infrastructure, growth of the urban forest and biodiversity as a part of development through the planning process

²⁶ United Nations Sustainable Development Goal 13: Take urgent action to combat climate change and its impacts http://www.un.org/sustainabledevelopment/climate-change-2/

²⁷http://temp.aucklandcouncil.govt.nz/EN/planspoliciesprojects/plansstrategies/theaucklandplan/energyresiliencelowcarb onactionplan/Pages/home.aspx

²⁸ Equates to approximately one tree per resident per year, trees can be planted in any location

²⁹ The Urban Forest Plan will provide: an inventory of existing trees; a plan showing the potential urban forest layer; detailed maps - showing the potential locations for trees within residential, commercial, streets, parks and other key areas of Puketāpapa; a schedule of trees for replacement and recommendations about the type of trees to be planted to maximise carbon capture, climate change mitigation and enhance biodiversity.

- Encourage Auckland Transport to plant more trees within the road corridor creating streetscapes that benefit the environment, reduce carbon emissions and increase community interaction
- Support the establishment of local eco-sourced nurseries.
- Encourage residents and businesses to use eco-design and water sensitive design practices, to increase planting and biodiversity at home and beyond.
- Collaborate with the Healthy Waters team to incentivise water sensitive design.
- Encourage involvement in Trees for Survival by all local schools
- Provide funding support for projects which increase ability to sequester carbon, increase our canopy cover and urban biodiversity.

Live Lightly

Increase biodiversity at home and beyond

Challenge: Plant a tree each year

Get Involved:

- Use eco-design practices in your garden
- Plant to support native wildlife
- Join Friends of Oakley Creek to support the restoration of Te Auaunga oakleycreek.org.nz
- Seek funding: Local Board Community Grants, Regional Natural Environment and Heritage Fund

Share a photo of your planting on social media: www.facebook.com/livelightlyakl/ www.livelightly.nz #puketapapalivelightly





Figure 9 and 10 River naturalisation work at the Walmsley/Underwood project, and Oakley Creek Te Auaunga Waterfall

8 Monitoring Framework

An annual review of progress against these targets and actions is proposed, using the low carbon monitoring framework provided below to measure uptake and impact.

Theme	Target	Monitoring Method	Baseline	Frequency
Living Lightly Champions	Low Carbon Network established	Number of members	0	Annual
Champions	At least 300 Puketāpapa residents carbon footprints measured and being tracked by 2020	Number of residents using the carbon footprint calculator	0	Annual
Food	To increase the ability of our residents to enjoy locally produced seasonal food with a low carbon footprint — measured as km² of urban agriculture	Local food markets Community Facilities Community Empowerment	Establish baseline	Annual
	100% of community facilities, local food markets and schools composting food waste	Community Facilities Local Food Markets Schools	Establish baseline	
	At least 300 households completed Compost Collective workshop and started composting.	Compost Collective reports - Waste Solutions	0	Monthly
Buildings	500 new households involved in initiatives to improve the energy	Low Carbon team	0	Annual

	efficiency and/or insulation in their homes			
	Percentage of new homes and buildings built that are low or zero carbon (e.g ≥6*Homestar, ≥5*Greenstar, meet Passivhaus, Living Building Challenge or equivalent requirements).	New Zealand Green Building Council	Establish baseline	
	All rental properties insulated to comply with new government regulation by 1 July 2019	Ministry of Business Innovation and Employment	Establish baseline	
	1.7 per cent reduction in community facility carbon emissions pa	Energy Monitoring Service – Community Facilities	260,654 kWh	Annual
	40 per cent reduction in community facility carbon emissions by 2040	Energy Monitoring Service – Community Facilities	260,654 kWh (2014)	Annual
Transport	Provide access to safe, affordable, accessible and sustainable transport systems for all.	Sample survey - Low Carbon Team, RIMU, Auckland Transport	Establish baseline	2018, 2025 and 2030
	100 per cent of schools participating in Travelwise	Establish baseline - Auckland Transport Sustainable Schools	Establish baseline	Annual
	22 public electric vehicle charging points by 2020	Plugshare	0	Annual

Shop Low Carbon	An average carbon footprint for Puketāpapa residents of three tonnes per person by 2040	Household carbon calculator (sample)	Seven tonnes average per person pa	Annual
	Reduce household waste per capita per annum by 30% to 110kg by 2018	Waste Assessment – Waste Solutions	0	Once every five years
	>300 households completed Compost Collective workshop and started composting	Compost Collective reports - Waste Solutions	0	Annual
Low Carbon Economy	100 local businesses with low carbon plans and carbon reduction targets by 2020	To be confirmed – Sustainability Office	Establish baseline	Annual
Green spaces	Expand network of tree- based ecological corridors to 50 per cent increase in carbon sequestration (compared with 2014 levels)	To be confirmed – Parks	2014 Establish Baseline	Once every three years
	Canopy Cover 35 per cent by 2040	LiDAR survey – Parks	20.4% (2013)	Once every three years
	Street canopy cover 30 per cent	Urban Forest Plan for Puketāpapa – Parks	Establish baseline	Once every three years
	Every Puketāpapa resident to plant a tree every year until 2040, to plant a million trees in Puketāpapa, Tāmaki Makaurau and Aotearoa.	To be confirmed - Parks, Community Facilities, Residents & Community Groups	Establish a method for recording tree plantings	Ongoing

9 Appendices

Appendix 1: Summary of Puketāpapa Climathon Ideas and Actions with corresponding Auckland Low Carbon Plan Targets and Local Board Outcomes

Appendix 2: Low Carbon Stocktake - Puketāpapa and Auckland-wide

Appendices to this report can be found online on the Puketapapa Local Board Website at www.aucklandcouncil.govt.nz/puketapapa under 'Puketāpapa plans, agreements and reports.'

