

Net Zero Pathway: Community and Corporate Emissions Reduction Plan

Our commitment to reduce
greenhouse gas emissions.

2026



Acknowledgement of Country

The City of Canada Bay acknowledges the Wangal clan, one of the 29 tribes of the Eora nation and the traditional custodians of this land. Council pays respect to Elders past, present and emerging and extends this respect to all Aboriginal and Torres Strait Islander people living in or visiting the City of Canada Bay.

This Net Zero Pathway Plan encompasses land currently known as the City of Canada Bay. We acknowledge this land is the traditional home of the Wangal people of the Eora nation. We recognise their stewardship of this place. We acknowledge the vital contribution that Indigenous people and cultures have made and still make to the nation that we share.



Guided tour of the Walk on Wangal Nature Trail with Koori Kinnections.

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Net Zero Pathway Plan

2026–2030 Snapshot



A path to a zero emissions Canada Bay

This is the **2026 update** of Council's 2020 Emissions Reduction Action Plan, covering **2026–2030**. When we developed our 2020 Emissions Reduction Action Plan, and updated our Environment Strategy in 2025, the community told us they want strong climate action so Canada Bay remains a healthy, liveable and resilient place.

This plan addresses greenhouse gas emissions generated by both Council operations and the City of Canada Bay community. For brevity, greenhouse gas emissions are referred to throughout this document as “emissions” or “carbon emissions,” with these terms used interchangeably. We use the term “carbon emissions” and express emissions in tonnes of CO₂-e because greenhouse gas emissions are measured as carbon dioxide equivalent emissions.

Emissions generated by Council operations are referred to as “corporate emissions”, while emissions generated across the City of Canada Bay local government area are referred to as “community emissions”.

Our targets

Community-wide:

Net zero emissions by 2040 (baseline of 772,220 tonnes CO₂-e in 2016–17, and interim target of 70–75% reduction by 2030).



Community emissions down **20%** since 2016–17.

Council Operations:

Net zero emissions by 2030.



Already achieved: **84% reduction** in corporate emissions since 2017–18.

Our two pathways

1. Lead by Example



Cut carbon emissions from Council buildings, fleet, lighting, and procurement.

2. Empower the Community



Support solar uptake, energy efficiency, sustainable transport, and Food Organics and Garden Organics (FOGO) waste recycling.

How we got here

2019

Declared a Climate Emergency.

2020

Community engagement + Emissions Reduction Action Plan adopted.

2020–2025

Major carbon emissions reduction actions delivered.

2025

Progress review confirms we're on track.

2026

Updated the plan to ensure Council is on track to achieve its net zero targets and align with the newly adopted, more ambitious community emissions reduction target.

1. These targets were adopted in [Council's 2025 Environmental Strategy](#)

Community Action Plan

Working together
to cut emissions



Progress to date

Renewable Energy Transition is underway



- Renewable energy now supplies **40% of grid electricity**, nearly halfway to Australia's 82% renewables by 2030 goal.
- Rooftop solar capacity quadrupled since 2018, surpassing Council's 2025 target to triple solar PV. As of December 2025, **4,894 Canada Bay homes** have solar (approx. **24.6%** of homes) with a collective capacity exceeding **40,000 kW**.
- Community energy consumption (gas and electricity) is 3% lower than in 2016–17.

Transport transition has started



- 2,104 electric vehicles registered in mid-2026 (up from 1,340 in early 2024).
- New Metro stations at Five Dock, Concord, and North Strathfield will improve public transport access.
- Ongoing upgrades support walking and cycling for recreation and active transport.

Waste – championing and transitioning Canada Bay's waste system from linear to circular economy has begun



- Waste to landfill per person reduced from 213 kg (2019–20) to 207kg (2023–24).
- Council's FOGO trial has collected 399 tonnes of FOGO waste diverting 598.5 tonnes of CO₂ equivalent emissions since commencement.

Updated community emissions target

In June 2026, Council unanimously resolved to align its community emissions reduction pathway with a science-based, equity-led approach consistent with the C40 Cities methodology and the objectives of the Paris Agreement.

Developed by the global C40 network of cities, the C40 framework provides a globally recognised best-practice approach for cities seeking to set carbon emissions reduction targets that are both science-based and equitable.

Under this approach, carbon emissions reductions are guided by a finite carbon budget. For a high-income community such as Canada Bay, the recommended pathway is to achieve **net zero emissions by around 2040**, while prioritising deep and rapid carbon emissions reductions during this decade.



Key milestones include:

- Approximately 70–75% reduction in community emissions by 2030 from a 2016–17 baseline.
- Five-yearly reviews and interim milestones aligned with the Paris Agreement’s “ratchet” mechanism.
- Ongoing monitoring and adaptive governance to respond to emerging science, policy and technology developments.

The new target reflects strong community support for ambitious climate action.

This updated Net Zero Pathway Plan is intended to align to this new pathway and uses the C40 Cities framework to guide action areas.

The community emissions to date, including a projected pathway to 2040 is shown in Figure 1.

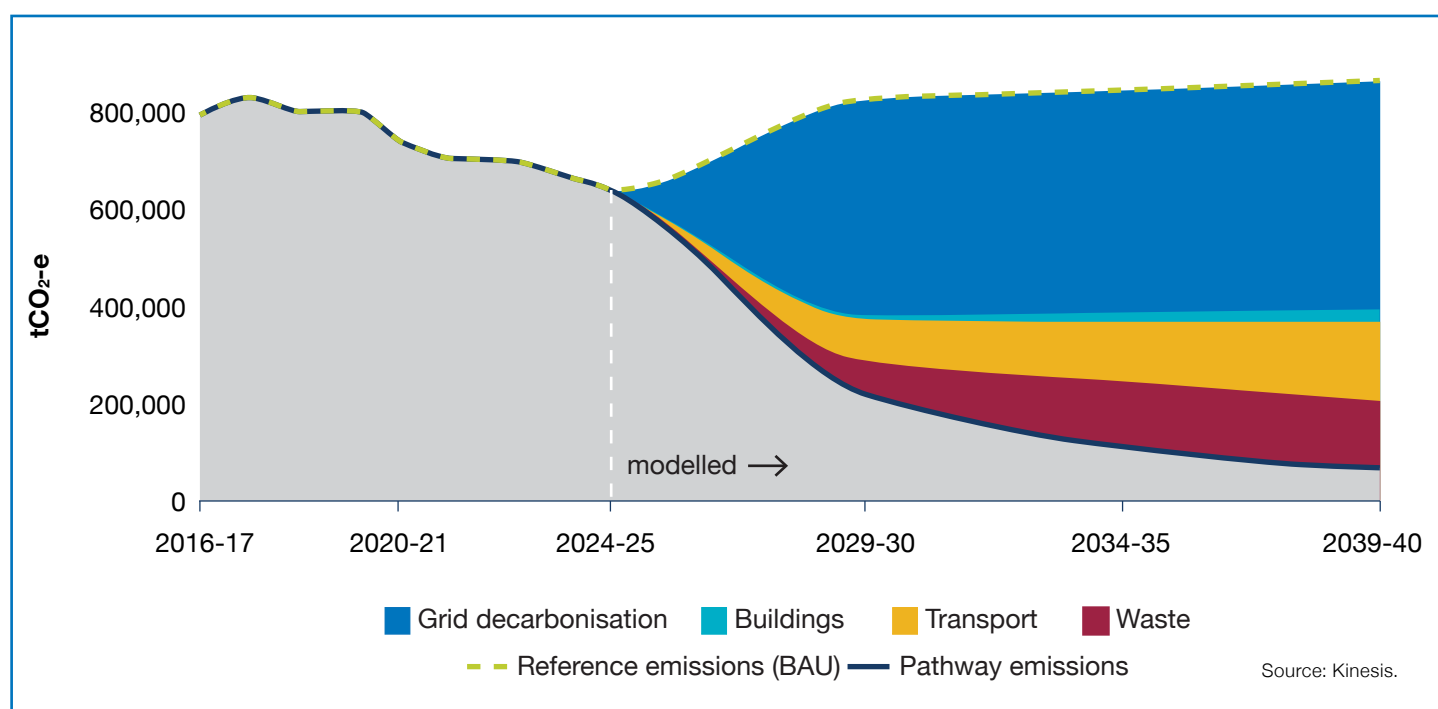


Figure 1. Community emissions indicative pathway, by source and year, using Resilient Sydney data to 2025 and projected to 2040.

Mapping our pathway to net zero

Council previously developed detailed carbon emissions reduction modelling as part of the Emissions Reduction Action Plan 2020. Following the adoption of Council's updated community emissions target, an initial pathway to net zero has been estimated using proportional top-down carbon emissions reductions.

This provides an indicative pathway that is qualitatively aligned with the C40 Cities framework and its focus on achieving deep carbon emissions reductions this decade.

At this stage, Council has not modelled a new bottom-up pathway given the pending work underway by the Net Zero Commission to model statewide decarbonisation pathways to be released in mid-2027.

Once the NSW decarbonisation pathways are released, and the NSW Government updates its Net Zero Plan, Council intends to review the findings against the actions identified in this Plan and refine its modelling accordingly.

The current indicative pathway, shown in Figure 1, retains a small amount of residual carbon emissions in 2040, as expected under current policy settings. The approach to addressing these residual carbon emissions to achieve net zero, whether through offsets or alternative measures, will be determined as part of the 2035 milestone review of this Plan, considering State or Federal Government policies or emerging requirements available at that time.

Future five-yearly reviews of this Plan will update the community emissions pathway and monitor progress towards the target to ensure Council's approach remains evidence-based and aligned with best practice.



Council as a leader

Council will continue implementing the actions in the Corporate Emissions section of this Plan to achieve our target of net zero emissions by 2030.

Through these actions and our support for community emissions reduction, and working collaboratively with other local councils, the City of Canada Bay will demonstrate leadership and show that ambitious, deep cuts in carbon emissions are feasible and cost-effective.

Leading by Example is one of the five key themes of Council's Environment Strategy 2025. Consistent with this theme, Council will demonstrate leadership through the sphere of control pathways detailed in the Environment Strategy, and summarised here as follows:

Pathway 1: Control



Council will lead by example as a local role model for environmentally sustainable practices through our facilities, services, events and governance.

Pathway 2: Influence



Council will use its civic leadership to influence local community action and beyond. We will do this by delivering behaviour change programs, scaling our efforts through partnerships and advocating for changes to policies, systems and markets.

Pathway 3: Concern



Council will think global and act local. We will incorporate larger scale issues, targets and goals in its strategic vision and advocacy agenda. Council will locally monitor, respond, adapt and report on local implications of matters of regional, national and international significance.

Calling for State and Federal support for net zero

As one of Sydney's fastest-growing urban areas, the City of Canada Bay is expected to accommodate significant population growth over coming decades.

Achieving Council's updated community emissions reduction target will therefore depend not only on local action, but also on coordinated leadership from State and Federal Governments.

Long-term planning decisions about land-use, energy, and transport have a significant influence on community emissions and largely sit outside the control of local government.

While the Canada Bay community is making great strides locally, we also need leadership from State and Federal Governments to reach net zero emissions faster.

Council will continue to advocate for:

- More funding for building upgrades and electrification support
- Market reforms that make it easier to use renewable energy
- Mandatory energy performance disclosure for properties
- Stronger renewable energy targets
- Policies that support a circular economy
- Zero-carbon building standards in national and state planning codes
- Planning reforms, funding and regulatory support for net zero precincts, including precinct-scale renewable energy, local energy sharing and integrated low-carbon urban development
- Better infrastructure and systems for active and zero-emissions travel.

Council will also advocate for targeted support for renters, apartment residents, low-income households and small businesses; faster grid upgrades and local energy sharing; stronger low-carbon construction and product stewardship standards; coordinated EV charging and public transport investment; regional decarbonisation pathways and targets that provide clear direction for local carbon emissions reduction planning; and long-term climate resilience funding.

Let's tackle these challenges together

Real climate action happens when we all work together – residents, schools, businesses, and community groups alike. While Council is taking steps to support carbon emissions reduction, many of the biggest changes come from the choices we each make every day.

Switch to electric

Choose a renewable energy plan and adopt electric appliances.



Choose a renewable energy plan, replace gas appliances with efficient electric options, install solar panels, and consider battery storage. Gas use has risen slightly since 2017 while electricity use is trending down. Let's flip the trend and accelerate the switch to all-electric homes and businesses.

Cut waste

Reduce, reuse, recycle and compost.



With waste emissions climbing to 117,000 tonnes CO₂e in 2023–24 (up from 112,832 tonnes CO₂e in 2016–17), we need everyone to cut landfill impacts by avoiding waste, buying less, recycling right, and recycling food. To avoid waste, you can join the sharing economy by attending repair workshops and swap events with neighbours, or borrowing from tool and toy libraries to reduce waste and promote reuse.

Build smarter and more resilient

Improve energy and water efficiency of buildings.



Builders and developers can design and retrofit homes and workplaces to be more energy- and water-efficient—think better insulation, smart audits, efficient fixtures, window awnings, and double glazing.

Transform transport

Use public transport, walk, bike, or drive an EV.



Transport emissions remain high with limited improvement since 2016–17, so choosing public transport, walking, cycling, or electric vehicles matters more than ever.

Business transition

Energy upgrades and more resilient businesses.



Businesses are key to achieving our carbon emissions goals. By improving energy efficiency, switching to electric equipment and vehicles, installing solar and battery storage, reducing waste, and adopting sustainable practices, we can cut carbon emissions, lower operating costs, and build a stronger, more resilient local economy.

Equitable and inclusive pathway

Reduce barriers for vulnerable groups.



Reaching our carbon emissions goals will require supportive policies, partnerships, education, and accessible programs. We must ensure all members of the community can access the benefits of decarbonisation and lower energy costs, including those facing financial, housing, language, or other barriers to participation.

Figure 2. Examples of community emissions reduction across each of the Key Themes.

CASE STUDY



Cut waste – Food Organics Garden Organics (FOGO)

FOGO is a recycling service that allows residents to place food scraps and garden waste into their green-lidded bin, where it is recycled into valuable compost. Our FOGO service will be introduced in two phases:

- **1 July 2027:** all detached houses and some select multi-unit dwellings (such as units and apartment buildings) start FOGO.
- **2029:** all other households transition to FOGO.

Food waste currently makes up around 37% of the average household garbage bin. When this organic material is sent to landfill, it breaks down without oxygen and produces methane – a potent greenhouse gas that contributes to climate change.

By diverting food and garden waste from landfill, FOGO helps reduce greenhouse gas emissions (carbon equivalent), while recovering valuable organic material for compost production.

In 2022, Council received funding from the NSW Environment Protection Authority (EPA) to trial a Food Organics and Garden Organics (FOGO) service in mid- and high-rise apartment buildings. Since then, 2,950 households across 114 apartment buildings have participated in the program, helping to divert more than 400 tonnes of food and garden waste from landfill. This material has been turned into compost, avoiding an estimated 598.5 tonnes of CO₂-equivalent emissions and contributing to a more sustainable community.

It is estimated that the potential carbon emissions saving from the successful roll out of the FOGO service could result in 9,183 tonnes of CO₂ equivalent emissions saved per year. That is the same as over 2,500 return flights from Sydney to London!



Ensuring equitable climate action

A successful transition to net zero must ensure that all community members can participate in and benefit from climate action. While many carbon emissions reduction measures deliver long-term financial, environmental and health benefits, access to these opportunities is not always equal.

Many people may not realise that decarbonisation measures deliver benefits beyond carbon emissions reduction and are closely linked to priority issues that affect daily life including cost of living, healthy and comfortable homes, access to transport, clean air, urban greening and resilience to extreme weather.

Some members of our community face greater barriers to participating in the transition to a low-emissions future or are more vulnerable to the impacts of climate change. These residents may require additional support to access the benefits of climate action.

People may belong to more than one marginalised group and experience multiple forms of disadvantage.

These groups may include culturally and linguistically diverse communities, people with disability, low-income households, renters and apartment dwellers, and Aboriginal and Torres Strait Islander peoples.

Council recognises that without targeted support, accessible communication and inclusive policy settings, the benefits of decarbonisation may be realised unevenly across the community.

Get involved



Council will provide opportunities for residents, businesses and community groups to participate in sustainability programs, workshops, events and initiatives that support carbon emissions reduction and community resilience.

Information on upcoming activities and participation opportunities will be available on Council's website and social media channels.

Working together, we can make meaningful progress towards a net zero future.



Our Approach



Our approach

This is our approach to community emissions:



Educate

Provide clear, practical information to help people take action, including workshops on home energy efficiency, solar and battery systems, FOGO and recycling education, and guidance for businesses on reducing energy use and carbon emissions.



Advocate

Advocate to State and Federal Government for policies and funding that support local carbon emissions reduction, such as electrification incentives, renewable energy access, stronger building standards, and improved public and active transport infrastructure.



Enable

Make it easier for the community to act by offering programs, grants and tools—such as sustainability grants for community groups, support for rooftop solar adoption, and access to up-to-date information on rebates, technologies and low-carbon choices.



Partner and Facilitate

Work with residents, strata, schools, businesses, and regional partners to deliver initiatives—such as collaborating on community solar programs, supporting repair and reuse networks, and partnering with organisations to deliver waste reduction and circular economy programs.



Lead by Example

Demonstrate leadership through Council's own operations and programs, including transitioning Council facilities to all-electric, reducing fleet emissions, and sharing progress to show what is possible and encourage broader community action.

What's next? Our plan for a net zero community

Six community powered action areas

1. Switch to electric: Efficient, cool, electric and renewably powered spaces



Helping households, renters, strata and businesses save energy, go electric and install solar through workshops, grants, and up to date information on emerging technologies.

We'll track progress through program participation, solar PV capacity growth, grant pool levels, and customer enquiries.

2. Cut waste: Circular economy, reuse and net zero waste



Supporting composting, recycling, food waste reduction and repair and reuse community programs. Rolling out FOGO across the city with strong community engagement.

We'll track progress through participation numbers, reduced recycling contamination, and achieving FOGO implementation prior to the 2030 mandate.

3. Build smarter and more resilient: Zero emissions and climate resilient building design



Ensuring new and upgraded buildings meet DCP requirements, support electrification, EV infrastructure and active transport, and improve energy efficiency while advocating for better State and Federal building and construction standards.

We'll track progress through number of participants, number of breaches of consent and advocacy actions.

4. Transform transport: Active, accessible and zero emissions



Collaborating with car share providers, expanding active movement planning, sharing travel information, advocating for coordinated transport infrastructure planning and delivering the Electric Vehicle Strategy.

We'll track progress through available information resources, adoption of the Local Active Movement Plan, advocacy actions and implemented EV actions.

5. Business transition: Low carbon and resilient local economy



Engage and partner with local businesses to better understand barriers to decarbonisation and promote opportunities to improve energy efficiency, adopt renewable energy, electrify operations and vehicle fleets, and access relevant rebates, programs and industry networks.

We'll track progress through participation, number of initiatives promoted, number businesses engaged and reduction in non-residential carbon emissions.

6. Equitable and inclusive pathway: Sharing the benefits of decarbonisation



Ensuring everyone in our community can participate in and benefit from the transition to net zero. We will work to reduce barriers faced by priority groups through targeted programs, accessible information, partnerships and advocacy.

We'll track progress through participation, accessible communications delivered, and engagement with vulnerable groups.

Community targets for net zero emissions²

Net zero emissions by 2040

Net zero by 2040, from a baseline of 772,220 tonnes CO₂e in 2016–17, and interim target of 70–75% reduction by 2030.



Double rooftop solar & boost energy efficiency

Double rooftop solar by 2030, from 32,983kW in 2024. Increase energy efficiency (total megajoules energy consumed from gas and electricity) from 2,292 million megajoules (2016–17).



More trips by active transport: Increase the percentage of trips made by active transport (walking and cycling)



20% of trips made by walking by 2036 (12% in 2016).



5% of trips made by cycling by 2036 (1% in 2016).



30% increase in total kilometres of active transport paths from 2019 baseline by 2030 (39km in 2019).



Increase EVs in Canada Bay from baseline 1,150 EVs registered in 2024.

These targets will be reviewed as part of future reviews of this Plan, including consideration of any updated community emissions modelling.



2. These targets were adopted in [Council's 2025 Environmental Strategy](#)

Our action plan towards a net zero community

Focus area	#	Intervention	Suggested activities	How we will track progress	Council support
1. Switch to electric: Efficient, cool, electric and renewably powered spaces	1	Residential energy efficiency and solar programs	Develop and deliver targeted workshops, information sessions, and online resources for households, strata, landlords, renters, low-income and vulnerable households that provide practical, actionable guidance on energy efficiency, assessing solar potential, evaluating quotes and warranties, and understanding emerging energy schemes and technologies.	<ul style="list-style-type: none"> Number of participants in programs Increase in kW Solar PV 	Sustainability & Waste
	2	Community support and grants	Continue to support and expand opportunities for community-led decarbonisation by delivering grant programs and offering access to Council facilities and communication channels for initiatives that align with Council's climate objectives.	Maintain grant funding pool based on 2023–24 levels	Sustainability & Waste
	3	Keep up with emerging opportunities	Regularly review and update information resources to stay current with evolving policies, technologies, and market developments, while staying engaged with emerging renewable energy market opportunities to connect the community access to affordable, clean energy.	Number of customer enquiries	Sustainability & Waste
2. Cut waste: Circular economy, reuse and net zero waste	4	Community waste and circular economy education	Deliver community awareness through educational initiatives about Council services (such as kerbside collection, bulk household collection, doorstep recycling collection, and drop-off facilities), while also promoting waste avoidance, reuse, repair, and resource recovery.	<ul style="list-style-type: none"> Reduced yellow-lid recycling bin contamination Number of bookings for Council services 	Sustainability & Waste
	5	Food Organics and Garden Organics (FOGO) Service	Roll out FOGO kerbside collection across the City of Canada Bay, supported by ongoing community engagement and education to maximise participation and uptake.	FOGO implemented prior to 2030 mandate	Sustainability & Waste
3. Build smarter and more resilient: Zero emissions and climate resilient building design	6	Enforcement of energy efficient and climate resilient controls	Ensure compliance with Development Control Plan (DCP) requirements by reviewing construction certificate approvals for electric vehicles, active transport infrastructure, and all-electric energy use in new or replacement dwellings and commercial buildings, while enforcing applicable state and national energy efficiency and climate resilience building codes.	Number of breaches of consent	Building Compliance

Focus area	#	Intervention	Suggested activities	How we will track progress	Council support
3. Build smarter and more resilient: Zero emissions and climate resilient building design (continued)	7	Building compliance audits	Investigate opportunities to include an energy efficiency check in future sale of property compliance audits.	Number of breaches of consent	Building Compliance
	8	Collaboration and advocacy for better building and construction standard	Work with regional and local government partners to advocate for improvements to building standards and planning controls to reduce carbon emissions and enhance climate resilience.	Evidence of collaboration, knowledge sharing and advocacy actions completed	Sustainability & Waste; Strategic Planning
	9	Water efficiency programs	Promote and deliver water efficiency education programs providing practical actions to conserve and reduce water consumption, combining with existing programs where relevant (e.g. energy).	Number of participants	Sustainability & Waste
4. Transform transport: Active, accessible and zero emissions	10	Car share and low-carbon transport programs	Update council website to encourage car share providers to request for car share spaces in council LGA. Develop community information resources on sustainable transport.	Number of resources available	Sustainability & Waste; Roads and Traffic
	11	Active transport infrastructure and net zero mobility	Prepare and seek endorsement to investigate the local active movement plan within the overarching Local Area Movement Plan (LAMP) to assist with strengthening the focus of net zero mobility, active transport and accessible, walkable streets.	Local Active Movement Plan complete and adopted	PMO; Roads and Traffic
	12	Active transport programs	Deliver and promote active transport education and behaviour change initiatives that encourage walking, cycling and public transport use including partnering with State and Federal government and leveraging available funding, programs and resources to increase community participation.	<ul style="list-style-type: none"> Number of promotions Number of program participants 	Sustainability & Waste; Roads and Traffic
	13	Zero emissions vehicle initiatives	Implement Council's Electric Vehicle Strategy and Action Plan.	Number of actions implemented	Sustainability & Waste
	14	Advocacy for coordinated zero-carbon transport infrastructure	Advocate to State and Federal Government for investment and planning reforms that expand walking and cycling infrastructure, integrate transport and land use planning, and enable EV charging infrastructure.	Evidence of advocacy actions completed	Sustainability & Waste; Strategic Planning; Roads and Traffic

Focus area	#	Intervention	Suggested activities	How we will track progress	Council support
5. Business transition: Low carbon and resilient local economy	15	Business and industry engagement	Engage with local businesses to better understand local challenges to decarbonisation and use the findings to inform future programs.	Outreach actions complete	Sustainability & Waste; Place
	16	Expand existing programs to engage businesses	Explore opportunities to expand existing Council sustainability programs and networks to better engage the business sector.	Reduction in non-residential carbon emissions	Sustainability & Waste
	17	Business and industry programs, networks and partnerships	Investigate programs and partnerships that support local businesses to reduce carbon emissions, improve energy efficiency, and adopt renewable energy.	<ul style="list-style-type: none"> ▪ New programs or partnerships developed ▪ Reduction in non-residential carbon emissions 	Sustainability & Waste
6. Equitable and inclusive pathway: Sharing the benefits of decarbonisation	18	Embed inclusivity across all carbon emissions reduction action areas	Investigate opportunities to integrate sustainability information into existing community engagement programs and networks and expand or align sustainability initiatives to better support marginalised and vulnerable communities to participate in a low-carbon future.	Participation rates from priority communities	Sustainability & Waste; Community Development
	19	Support and promote for priority communities	Support and promote initiatives that assist marginalised communities to participate in the transition to net zero and improve access to information.	Number of promotions	Sustainability & Waste; Community Development
	20	Advocate for priority communities	Advocate to State and Federal Governments for policies and financial support that improve equitable access to decarbonisation opportunities.	Evidence of advocacy actions undertaken	Sustainability & Waste; Community Development
	21	Accessible climate information and education	Explore options to create, support and promote climate communication and education materials that are accessible, inclusive and responsive to the needs of our diverse community and groups facing barriers to participation.	Resources and/or promotional materials produced in a variety of alternative formats, where possible.	Sustainability & Waste; Communications and Engagement; Community Development
	22	Affordable housing energy upgrades	Explore opportunities to improve energy efficiency and electrification outcomes in Council's affordable housing units to reduce energy costs for tenants.	Number of initiatives implemented	Sustainability & Waste; Property; Strategy and Leasing
	23	Equitable climate grants and financial support	Investigate opportunities to expand Council's community grants and support programs to assist priority communities and/or small businesses to implement energy upgrades and efficiency measures.	Potential supports identified	Sustainability & Waste

Corporate Action Plan

Racing to zero by 2030
in Council operations



Our Corporate target of net zero by 2030 aligns with science-based targets and include the following emission sources:

Scope 1 	Scope 2 	Scope 3 
Transport fuel in Council's fleet and natural gas used in Council facilities.	Electricity for Council facilities, including: buildings, pools and sports fields and Council-owned street and park lighting.	Ausgrid-owned street lighting ¹ , also transmission and distribution losses for electricity and upstream carbon emissions for natural gas, petrol and diesel.

What the data shows

Since 2017–18, Council has cut our corporate emissions by 84%, beating our interim target of 77% reduction by 2025. Total energy use is also down 27%, due to energy efficiency upgrades and 100% renewable electricity. All streetlights (including Ausgrid owned streetlights) and every Council site is now powered through a 100% renewable electricity purchasing agreement, and we're generating renewables at 11 council sites with rooftop solar electricity.

Fleet fuel and gas still need attention and we will focus on tackling them next to hit **net zero by 2030**.

How we are tracking on key success measures

Measure	2017–18 baseline	2025–26 progress	Change	Goal
Carbon emissions (t CO₂-e)	7,579	1,175	84% lower	Net zero
Proportion of electricity from renewable sources	27.3% (end 2019)	100%	Goal achieved	100%
Natural gas use (MJ)	7,813,427	5,757,450	26% lower	Net zero
Fleet fuel use (l)	358,887	255,900	29% lower	Net zero
Total energy use (GJ)	43,362	31,580	27% lower	Lower than baseline
Energy costs (\$) Actual	\$1.9 million	\$1.9 million	No change (despite inflation)	Reach net zero cost effectively
Proportion of LGA total carbon emissions	1%	0.2%	80% lower	

Table 1. Corporate carbon emissions reduction – progress against key metrics.

Embedding circular principles to act on supply chain emissions

Council's current target is for net zero energy emissions (gas, electricity and fleet fuel). As part of the Waste and Resource Recovery Strategy, Council plans to manage supply chain emissions and embed circular economy principles in Council operations and community-facing programs.

What is a circular economy and what are the main principles?

The circular economy is a system where materials never become waste and nature is regenerated. In a circular economy, products and materials are kept in circulation through processes like maintenance, reuse, refurbishment, remanufacture, recycling, and composting. The circular economy tackles climate change and other global challenges, like biodiversity loss, waste, and pollution, by decoupling economic activity from the consumption of finite resources.

The circular economy is based on three principles, driven by design:



[Eliminate waste and pollution](#)



[Circulate products and materials \(at their highest value\)](#)



[Regenerate nature](#)

Source: [Ellen MacArthur Foundation](#)

In 2023, Council worked with 100% renewables to estimate the supply chain emissions in items that Council buys. Using Council data, our total carbon footprint for 2022-23 was estimated as 13,835 tonnes of CO₂-e. Most of these carbon emissions, about 91%, came from indirect emissions from goods and services we purchase (scope 3). The biggest contributions were:



Non-residential building construction
41%



Road and bridge construction
14%



Building and facilities maintenance
8%



Waste from Council operations
7%



Other purchased goods/services, professional services, ICT, etc.
~21%

By comparison, Scope 1 (direct emissions from fuel and gas) made up 9% and Scope 2 (electricity) was effectively zero because all Council electricity is offset with 100% renewable electricity.

91% of our emissions are hidden in what we buy

Total footprint 13,835 tonnes of CO₂-e.

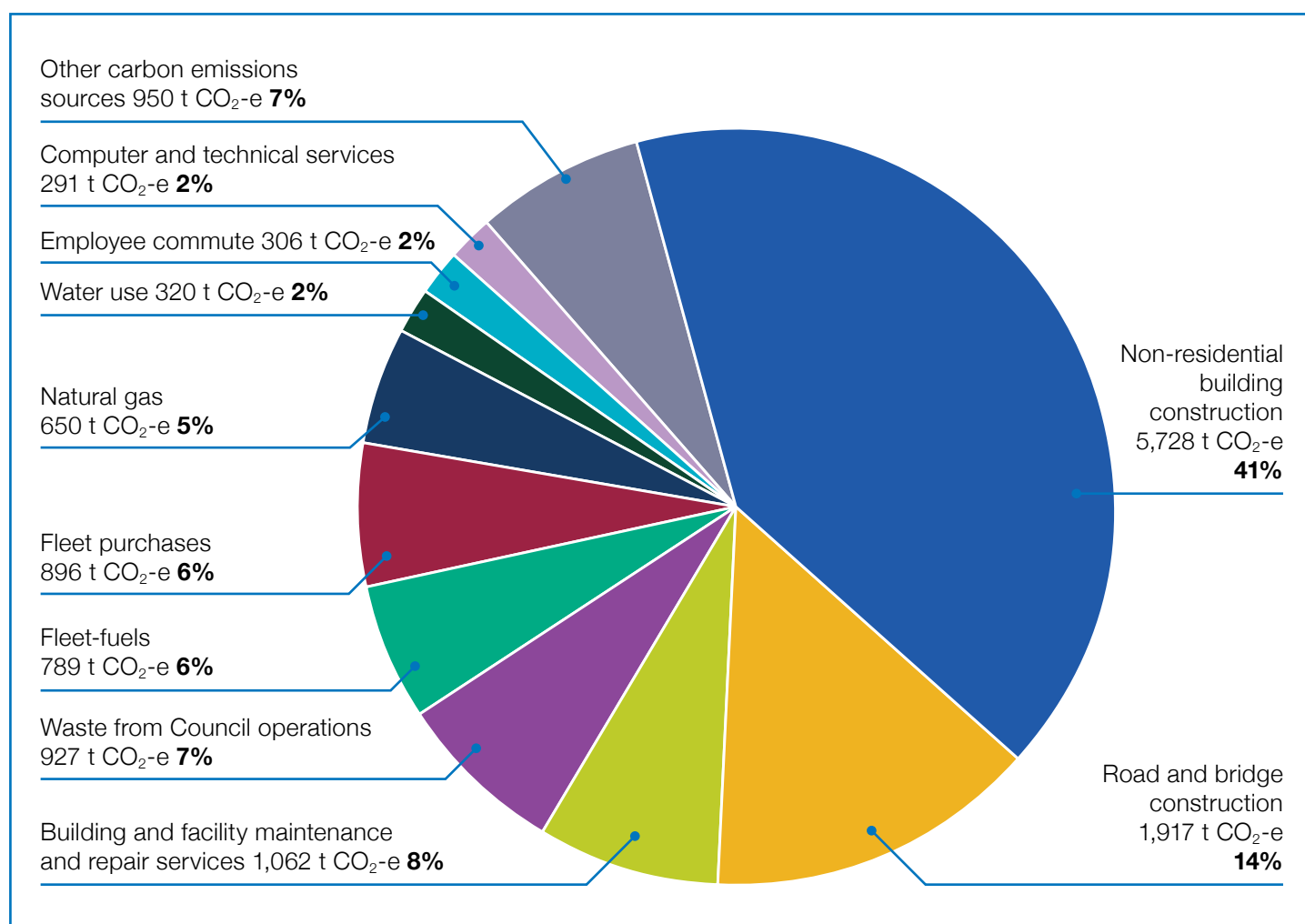


Figure 3. City of Canada Bay carbon footprint inventory for FY 2023 (by emission sources).

Construction materials such as bitumen, concrete and steel have high embodied carbon emissions. To investigate an expanded emission profile, we will start gathering data on scope 3 emissions, engaging with our supply chain and implementing sustainable procurement.

Progress to date

Improvements in energy efficiency and purchasing renewable energy has driven the substantial decrease in corporate emissions. Strategic procurement has enabled cost effective action. Energy costs in 2024–25 were the same as in 2017–18, (\$1.9 million) this is despite inflation and Council adding additional facilities to its portfolio.



100% renewable electricity for all sites via bulk SSROC contract for 25 councils.



Electric heat pump at Cabarita Pool phased out gas pool heating.



Rooftop solar on 11 buildings, including one with battery storage. Performance actively monitored across all sites.



Fleet transition underway: 90 hybrids, 14 EVs, 7 electric plant vehicles.



94.5% completion of LED upgrades for Ausgrid-owned streetlights delivered 49% energy savings to Council.



Active monitoring of energy use, cost and carbon emissions with our corporate environmental accounting system and pool benchmarking tools.



What's next? Key highlights for corporate emissions

Imagine a city where every Council building runs on clean electricity, pools are heated without gas, and our fleet is fully electric.

Where we want to

be by 2030

Net zero corporate emissions:

- All electric Council facilities (no reticulated gas).
- Net zero fleet.
- Net zero pools.
- Tracking, educating and trialing Scope 3 emissions accounting for identified materials.
- Net zero emissions and efficient use of energy is designed into all new or renovated Council assets.

Goals/strategy

- Reduce carbon emissions from electricity, transport, waste, and gas to reach net zero by 2030.
- Install solar PV on new assets where feasible to reduce spend on grid electricity.
- Switch from gas to 100% renewable electricity for all Council facilities.
- Continued improvements in energy efficiency.
- Understand the impact of scope 3 emissions resulting from Council operations and services.
- Less reliance on fossil fuel transport and better fuel efficiency.

Targets³

- Net zero emissions by 2030, 61% less than 2017–18 by 2025 (gas, fleet fuel and electricity).⁴
- Phase out gas in Council operations by 2030, 80% less than 2021–22 by 2026.⁴
- 100% renewable electricity for Council operations.
- Net zero emissions from Council fleet by 2030.



3. These targets were adopted in [Council's 2025 Environmental Strategy](#)

4. Council exceeded its interim milestone, achieving 77% emissions reduction in the financial year 2022–23, [City of Canada Bay beats emissions target | City of Canada Bay Council](#)

Building a climate-ready Canada Bay

Our climate is changing, and heatwaves, storms and floods are becoming more frequent and more intense. These events affect our homes, our streets, our parks – and the essential services Council provides every day.

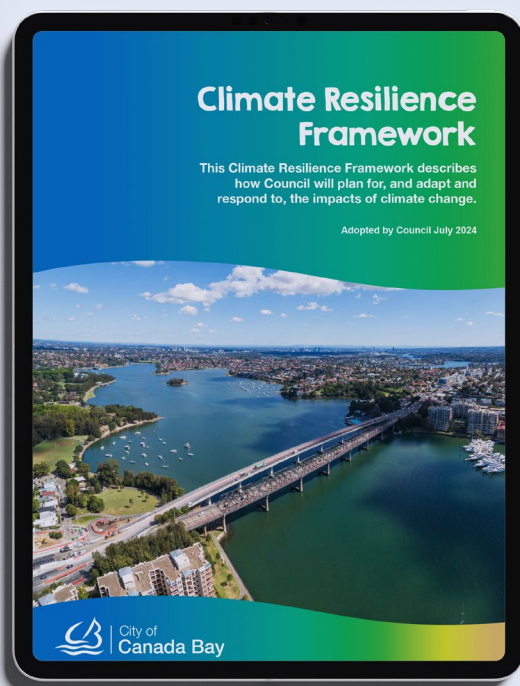
That's why Council has developed a **Climate Resilience Framework**: a long term plan to make sure our city stays safe, connected and prepared – now and into the future.

To do this, Council is:

- **Planning ahead:** We're looking at how climate change will affect people, places and local infrastructure – and acting early to reduce risks.
- **Strengthening how we operate:** We're embedding climate resilience into the way Council works every day, from strategic planning to on the ground operations.
- **Supporting the city's transition to net zero emissions:** By reducing carbon emissions and preparing for extreme weather, we're helping Canada Bay transition to a healthier, zero carbon emissions city.

Find out more in our [Climate Resilience Framework](#), adopted in 2024.

Visit our [website](#) or contact Council to learn how you can get involved in building a climate ready community.



Our approach

Our 2020 Emissions Reduction Action Plan set a strong foundation for action. This review provided an opportunity to ensure we are on track, consider any risks and adjust our pathway moving forward. To ensure we meet our 2030 net zero target and deliver lasting benefits for our community, we are continuing our commitment to the following approach:

- **Avoid** – Eliminate activities that generate carbon emissions wherever possible.
- **Reduce / Improve Efficiency** – Implement more efficient technologies and practices, such as LED lighting and building management systems.
- **Substitute** – Replace high carbon energy sources with low carbon alternatives like solar power and electric vehicles.
- **Offset Residual Carbon Emissions** – For carbon emissions that cannot be eliminated, purchase only certified carbon offsets.

How we'll get there - our Action Plan for net zero corporate emissions

2017–18 Baseline 7,579 tCO₂-e

- 84% reduction achieved
- 2025–26 carbon emissions 1,175 tCO₂-e

Final focus areas to 2030

- Phase out gas
- Electrify fleet
- Manage refrigerants
- Expand solar and storage
- Continue energy efficiency
- Offset residual emissions

Net zero corporate emissions by 2030

Snapshot summary

Achieve net zero corporate emissions by 2030.



**Implement
emission-reduction
measures**



**Manage energy
cost-effectively**



**Address high-risk
emissions**



**Manage supply-
chain risk**



**Empower the
community**

1. Implement all feasible emission reduction measures



A program focused on eliminating fossil fuels and cutting direct carbon emissions through:

- Fleet electrification (Fleet emissions eliminated as far as possible by 2030 to reduce the number of offsets for residual carbon emissions from 2030–2040)
- Phasing out gas in all Council operations
- Maintaining 100% renewable electricity supply and expanding rooftop solar.

Overall theme: Electrification and fossil-fuel phase-out across Council operations.

2. Manage energy to reach net zero cost-effectively



A program to optimise how Council uses, produces and manages energy through:

- Continuous monitoring of energy use, cost and carbon emissions
- Energy efficiency optimisation across buildings, heating ventilation and cooling, and pools
- Solar performance monitoring, additional solar/storage feasibility
- Efficient lighting upgrades (buildings, parks, open space, streetlighting)
- Implementing ecologically sustainable design (ESD) requirements in new assets
- Investigating local energy sharing opportunities.

Overall theme: Smart energy management, efficiency, and performance optimisation.

3. Address high-risk emissions



A specific program for managing remaining high carbon emissions sources:

- Refrigerant inventory and phase out program for HVACR systems.

Overall theme: Targeted reduction of direct carbon emissions.

4. Manage supply-chain risk



A program improving how Council procures and tracks high emission materials and services:

- Tracking embodied carbon emissions in construction materials
- Implementing sustainable procurement practices across Council
- Supporting tenants in leased facilities to cut energy and carbon emissions.

Overall theme: Sustainable procurement and embodied carbon management.

5. Empower the community



A program to support community wide carbon emissions reduction by:

- Sharing carbon emissions data
- Delivering programs that support solar uptake, energy efficiency, sustainable transport and FOGO.

Overall theme: Community partnerships and support for local carbon emissions reductions.

Our Action Plan for net zero corporate emissions

Significance for net zero target	#	Actions	Measurable outcome	Lead manager	Support manager (s)
1. Implement all feasible emission reduction measures	1	Finalise and implement a net zero Fleet Transition Plan to: <ul style="list-style-type: none"> ▪ Increase the percentage of hybrid vehicles in Council's fleet. ▪ Continue to source fuel-efficient vehicles for Council operations. ▪ Adopt electric vehicles for Council's fleet as they become a cost-effective option. ▪ Reach net zero emissions from Council fleet by 2030. 	<p>Fleet emissions reduction plan prepared by 2026.</p> <p>Fleet emissions eliminated as far as possible by 2030 to reduce the number of offsets for residual carbon emissions from 2030–2040.</p> <p>100% zero emissions fleet by 2040.</p>	Building Assets & Fleet	Sustainability & Waste
2. Manage energy to reach net zero cost-effectively	2	Phase out gas in Council operations by 2030, 80% less than 2021–22 by 2026.	Net zero emissions from Council facilities.	Building Assets & Fleet	Sustainability & Waste
	3	Continue to buy 100% renewable electricity for all Council sites and generate rooftop solar at Council sites.	100% renewable energy PPA in place to 2030 or beyond.	Sustainability & Waste	Procurement
	4	Monitor energy use, cost and carbon emissions for all Council sites, flag issues to responsible managers. Prepare 6 monthly performance reports, site alerts for key sites, and report yearly in Annual Report.	<p>Energy consumption less than 2017–18 of 43,362,180 MJ.</p> <p>Annual Report includes progress against this Net Zero Pathway Plan.</p>	Sustainability & Waste	City Asset Managers and Property Strategy and Leasing
	5	Establish carbon accounting for Scope 1 refrigerant emissions.	Carbon accounting systems and processes established.	Sustainability & Waste	City Asset Managers
	6	Commence scope 3 emissions accounting for goods and services with high embodied carbon emissions.	Carbon accounting systems and processes established.	Sustainability & Waste	City Asset Managers
	7	Establish an energy efficiency optimisation program, integrated with building maintenance and 4-year asset plan.	<p>Energy use at community used facilities is lower than 2024–25.</p> <p>HVACR energy optimised for thermal comfort and energy efficiency.</p>	Building Assets & Fleet	Sustainability & Waste

Significance for net zero target	#	Actions	Measurable outcome	Lead manager	Support manager (s)
2. Manage energy to reach net zero cost effectively (continued)	8	Continue to benchmark pool energy and water use using City of Sydney star rating tool to reduce water and energy use.	Energy and water consumption at both pools is lower than 2024–25.	Sustainability & Waste	Building Assets & Fleet, Recreation
	9	Complete LED replacement actions for Council buildings in 2020 Emissions Reduction Action Plan.	LED replacements complete for all sites in 2020 Emissions Reduction Action Plan by 2030.	Building Assets & Fleet	City Asset Managers, Sustainability & Waste
	10	Continue solar performance tracking and fault rectification to optimise energy generation.	All Council solar systems are operating adequately.	Building Assets & Fleet	Sustainability & Waste
	11	Investigate further opportunities for behind the meter solar and energy storage installations.	Feasibility report by 2027.	Sustainability & Waste	Building Assets & Fleet
	12	Reduce energy consumption for open space lighting through lighting replacements, standards and improved controls, where feasible.	Energy used from open space lighting lower than 2024–25 (kWh).	Strategic assets and innovation	Sustainability & Waste
	13	Investigate opportunities to reduce light pollution from park lighting and protect dark skies, especially in Biodiversity Corridors.	Pilot project implemented by 2030.	Strategic assets and innovation	Sustainability & Waste
	14	Investigate opportunities to further reduce energy use from Ausgrid streetlights including a smart street lighting dim and trim program.	By 2030, Ausgrid streetlighting energy use is lower than 2024–25.	Strategic assets and innovation	Sustainability & Waste
	15	Implement Council's Environmental Sustainability Design (ESD) Guide to ensure new and upgraded facilities contribute to net zero by 2030.	ESD Guide include into the new City Assets Design Guides and practices by 2028. 100% of new facilities are all electric.	Building Assets & Fleet	City Asset Managers, Sustainability & Waste
	16	Implement the actions for Sustainable Council Events from Council's 2025 Environment Strategy.	Deliver actions in Environment Strategy 2025.	All managers	Sustainability & Waste
	17	Investigate local energy sharing.	Research and feasibility report by 2027.	Sustainability & Waste	–

Significance for net zero target	#	Actions	Measurable outcome	Lead manager	Support manager (s)
3. Address high risk emissions	18	Develop a high carbon emissions refrigerant (air-conditioning gases) asset inventory and phase out program.	High carbon emissions refrigerant phase out program established.	Building Assets & Fleet	Sustainability & Waste
4. Manage supply chain risk	19	Establish processes to track and monitor the volume of high embodied carbon emissions materials (e.g. concrete, steel, bitumen) used by Council as recommended in Council's new Circular Economy Roadmap.	Council tracks and monitors volumes of high embodied carbon emissions materials used by 2030.	Sustainability & Waste	City Asset Managers
	20	Implement the actions for corporate Sustainable Procurement from Council's 2025 Environment Strategy and Circular outcomes in Council's Waste Strategy.	Waste Strategy updated and adopted by 2026. Actions in Environment Strategy 2025 implemented by 2030.	Sustainability & Waste	Chief Finance Officer
	21	Investigate an active transport and low carbon travel plan for staff.	Program designed.	Sustainability & Waste	People and Culture
	22	Consider carbon costs and physical climate risks in all major asset decisions in line with Climate Resilience Framework.	Assessment process established to consider climate risk and carbon costs in major asset decisions.	City Asset Managers	Sustainability & Waste
	23	Investigate a program for Council Leased Facilities to support tenants to reduce carbon emissions and energy.	Carbon emissions program for leased facilities agreed by 2027.	Property Strategy and Leasing	Sustainability & Waste
	24	Keep up to date with evolving standards and requirements for climate, carbon emissions and risk reporting and disclosure.	Council is compliant with requirements for climate, carbon emissions and risk reporting and disclosure.	Sustainability & Waste	Finance, Governance and Risk
	25	Buy high quality offsets for residual carbon emissions from 2030 onwards.	Net zero Council by 2030.	Sustainability & Waste	City Asset Managers
5. Empower the community	26	Share data on community emissions sources.	Community emissions shared regularly.	Sustainability & Waste	–
	27	Deliver programs that support solar uptake, energy efficiency, sustainable transport, food waste recycling (FOGO) and diversion landfill.	Community Emissions reduction actions completed.	Sustainability & Waste	All

Monitoring and reporting



Council will monitor and review progress annually, with key results reported through Council's Annual Report and other relevant public reporting mechanisms. A suite of key performance indicators (KPIs) that measure carbon emissions, energy use, renewable energy uptake, fleet transition, circular economy outcomes, waste diversion, transport behaviours and community participation are listed below. The indicators outlined in the table include baseline data, targets, calculation methodologies and responsible business units to ensure consistent and transparent reporting.

The Sustainability & Waste team will coordinate monitoring across Council, working with relevant departments to track performance, identify emerging challenges and opportunities, and support continuous improvement. The Plan and carbon emissions reduction pathway will be reviewed and updated every five years with the next occurring in 2030 to ensure targets remain achievable, aligned with best practice and responsive to changes in technology, policy and community expectations.

KPI indicator dashboard

Category	KPI	Baseline	Target	Formula	Owner
Corporate Operations	Corporate carbon emissions (tCO ₂ e)	7,579 (2017–18)	Net zero by 2030; 61% less than 2017–18 by 2025	Sum tCO ₂ e	Sustainability & Waste
Corporate Operations	Proportion of Renewable Electricity	100%	Maintain 100%	Renewable kWh / Total kWh	Sustainability & Waste
Corporate Operations	Natural Gas Use (MJ)	2021–22 baseline	Phase out gas in Council operations by 2030, 80% less than 2021–22 by 2026	Sum MJ gas	Building Assets & Fleet
Corporate Operations	Fleet Emissions & EV Share	Current fleet mix	Net zero by 2030	Fuel factors; EV%	Building Assets & Fleet
Corporate Operations	Total Energy Use (MJ)	43,362,180 MJ	Below baseline	Sum MJ	Sustainability & Waste
Corporate Operations	Energy Cost (\$)	\$1.9m	Cost-effective net zero	Energy cost tracking	Sustainability & Waste
Corporate Operations	Refrigerant Emissions	Inventory needed To be established	Phase-out program	Refrigerant factors	Building Assets & Fleet
Circular Economy	Embodied Carbon (tCO ₂ e)	To be established	Annual reductions	tCO ₂ e per material	Sustainability & Waste
Circular Economy	Recycled Content Compliance	Current procurement To be established	All projects comply	Compliant/Total	Sustainability & Waste
Circular Economy	Community Reuse & Repair initiatives	To be established	Increase participation year by year	To be established	Sustainability & Waste

Category	KPI	Baseline	Target	Formula	Owner
Community Energy	Community Solar (kW)	32,983 kW (2024)	Double by 2030	kW added	Sustainability & Waste
Community Energy	Community Energy Efficiency	2,292M MJ (2016–17)	Reduce MJ	Sum MJ	Sustainability & Waste
Community Energy	Program Participation	Workshops, grants	Year-on-year increase	Counts	Sustainability & Waste
Community Energy	Advocacy activities	As required	Track activities	Counts	Sustainability & Waste
Waste	FOGO Participation	Rollout phase	Mandate-ready pre-2030	Households in FOGO / Total	Sustainability & Waste
Waste	Recycling Contamination	Current %	Reduction	Contamination %	Sustainability & Waste
Transport	Walking Mode Share	12% (2016)	20% by 2036	Walking trips %	Roads & Traffic
Transport	Cycling Mode Share	1% (2016)	5% by 2036	Cycling trips %	Roads & Traffic
Transport	Active Path Network (km)	39 km (2019)	+30% by 2030	km built	Roads & Traffic
Transport	EV Adoption	1,150 EVs (2024)	Increase yearly	EV registrations	Sustainability & Waste
Offsets	Offsets Purchased	0 (pre-2030)	High-quality offsets from 2030	tCO ₂ e retired	Sustainability & Waste
Reporting	KPIs published in Annual Report	Annual Report 2024–25	All KPIs published from 2025–26 Annual Report onwards	Counts	Sustainability & Waste
Governance	Review and Update Plan and Carbon Emissions Pathway every 5 years	Current plan and emissions pathway	5 yearly milestone updates	2030, 2035, 2040 updates	Sustainability & Waste

Note: Some of the above indicators will not be reported on publicly in the Annual Report but will be reported on internally where information is available.



City of
Canada Bay