



**NORTH SYDNEY
ENVIRONMENTAL SUSTAINABILITY STRATEGY 2030**



STRATEGIC CONTEXT

Sustainability is one of Council's eight core values. As such, equity, preservation, justice and precaution are important principles that help focus everything we do at North Sydney. Sustainability is a complex and multi-faceted concept involving interactions between environmental, social, economic and governance factors to achieve "peace and prosperity for people and the planet, now and into the future" (UN 2030 Agenda for Sustainable Development). This strategy relates specifically to environmental sustainability and sets targets for Council's own operations and the community to help achieve our environmental goals. These include acting on Council's climate emergency declaration, protecting native plants and animals, looking after our waterways, reducing waste to landfill and using resources wisely.

This strategy builds on Council's issue specific plans and other strategies that help Council and the community to reduce our environmental footprint. Its targets are also informed by Australian Bureau of Statistics (ABS) data and projections, the North Sydney community profile, and the planning priorities and actions identified in relevant state and national plans and strategies. Its themes and targets are aligned with the Sustainable Development Goals of the United Nations 2030 Agenda for Sustainable Development. The Sustainable Development Goals are the international best practice standard for sustainability reporting and are used by all levels of government in Australia and almost half of the ASX 200 companies in their business plans and annual reports.

*Photo credits:
Water with jelly fish: Laura Stone | Kayaks: Laura Stone | Fruitbat: Matt Wright*

OUR VISION FOR 2030

This strategy aims to help fulfil Council's vision for North Sydney including that by 2030:

- North Sydney is sustainable
- the natural environment is able to sustain the effects of population growth, now and into the future
- North Sydney's natural environment is defined by extensive bushland and the foreshore of Sydney Harbour, where foreshore access has been maximised
- the North Sydney community actively looks after the environment for current and future generations making sure that North Sydney remains clean and healthy
- participant numbers in initiatives such as Bushcare, Streets Alive and community gardens have increased
- North Sydney has built its resilience to natural hazards
- North Sydney has reduced its environmental impact by making efficient use of energy and water resources; shifting towards renewable energy resources; conserving resources; and minimising waste
- North Sydney's natural environment is accessible to all, for a wide range of social and recreational opportunities that do not compromise environmental values
- North Sydney has a network of green spaces and corridors linking bushland, waterways and parks throughout
- natural environments such as Balls Head, Berry Island, Tunks Park, Anderson Park, Cremorne Point Reserve and St Leonards Park are appealing and enjoyable
- the Coal Loader Centre for Sustainability and its green roof platform are a hub for learning and meeting up with family and friends
- the way people move around North Sydney will have improved. North Sydney has integrated transport system that make it easy to get to and around the local government area. North Sydney has a wide choice of transport. People can cycle, walk, take public transport or drive a vehicle. Public transport is efficient offering a good alternative to cars
- car ownership will decrease as more people take up car share options. Bike share, whilst still a self governed model, will be well maintained, well utilised and not perceived as an eye sore



1. CARBON FOOTPRINT

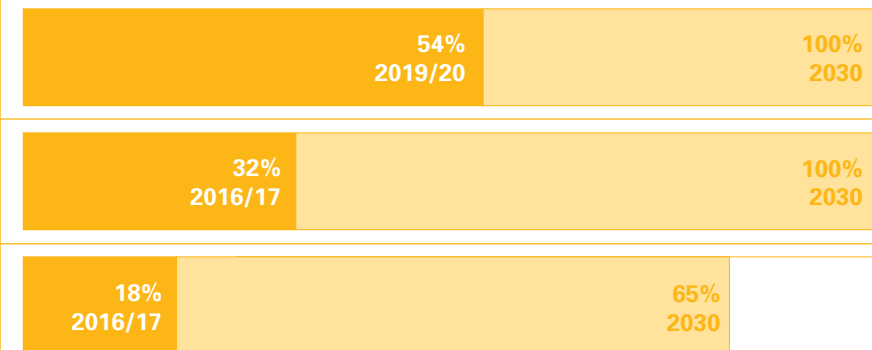
North Sydney Council has been proactively reducing greenhouse gas (GHG) emissions for many years in an effort to reduce its energy consumption and its impact on climate change. Council set its first greenhouse gas reduction targets for Council operations and the community in 2002 as part of the International Council for Local Environmental Initiatives (ICLEI) Cities for Climate Protection (CCP) program and established its first Greenhouse Action Plan in the same year to provide strategic guidance to help Council prioritise and implement its greenhouse gas reduction activities to achieve its targets. As a result, Council achieved a 32% reduction in GHG across its operations by 2017 from 1996 levels, and an 18% reduction in community emissions.

On 22 July 2019, through a unanimous vote, Council became the 30th Australian Council to declare a climate emergency requiring immediate action by all levels of government. It did so noting the latest report of the Intergovernmental Panel on Climate Change (IPCC) 'Global Warming of 1.5 degrees Celsius' and the Federal Government's latest emissions data showed that we are increasing, not reducing, our carbon emissions. Council's 2030 targets and actions respond to the climate crisis and provide a roadmap to accelerate towards a carbon neutral future.

Where we want to be

1. 100% of Council's electricity needs are met by renewable energy sources before 2030
2. 100% carbon neutrality for Council operations achieved before 2030
3. 65% greenhouse gas reduction of 1996 community emissions levels before 2030

How we are tracking



What we have achieved so far

- energy efficient upgrades of Council facilities including:
 - optimisation and upgrades of major building management systems, and heating and cooling systems
 - lighting upgrades to LED with smart controls
 - optimisation of energy management systems at North Sydney Olympic Pool
- renewable energy generation and purchase including:
 - installation of 435kW solar photovoltaic (PV) across various Council facilities which in 2019/20 supplied 6% of Council's electricity demand
 - heat pump hot water systems, replacing gas
 - purchasing renewable energy for more than 30% of Council's electricity consumption
- working with the North Sydney residential and business community to reduce the carbon footprint of the whole Local Government Area (LGA) including:
 - engaging more than 120 apartment buildings through Council's Futureproofing Apartments program resulting in average base building energy savings of 59%
 - hundreds of residents attending energy conservation and renewable energy workshops, expos, and events
 - engaging the local business community through networking, workshops and in-house support

What we will do to achieve our targets

- regularly conduct energy audits and efficiency upgrades of all Council facilities
- invest in generating more renewable energy at Council facilities
- increase our renewable electricity purchase from 35% to 100%
- pursue improvements to North Sydney's street lighting network
- implement efficiencies for Council owned public lighting
- investigate the feasibility of divesting from fossil fuels
- develop a strategy to electrify Council operations and equipment to utilise electricity from renewable sources in favour of fossil fuels including gas
- purchase carbon offsets for Council's residual emissions to become carbon neutral
- investigate opportunities to provide residential and business rebates for energy conservation and renewable energy
- review and update the energy provisions in Council's planning controls to incorporate best practice energy management measures and support a transition to electricity from renewable sources in favour of fossil fuels including gas
- investigate opportunities to create a 'Green Precinct' for North Sydney businesses (i.e. a distributed energy generation and storage network that can provide an alternative to grid supplied electricity and gas networks)
- investigate opportunities to facilitate the purchase of electricity from renewable sources for the North Sydney community and deliver renewable energy at the lowest possible cost
- identify opportunities for accelerating smart technology solutions for better energy/environmental management in the LGA



2. WATER CONSERVATION

North Sydney first set water reduction targets and action plans for Council and community water use in 2004 in response to the millennium drought. In early 2020 Sydney was again in drought, the worst on record in greater Sydney. While water consumption fluctuates due to rainfall and other climatic patterns, North Sydney Council is committed to implementing water management strategies that respond to a hotter and drier climate. This necessitates maintaining our ambitious water

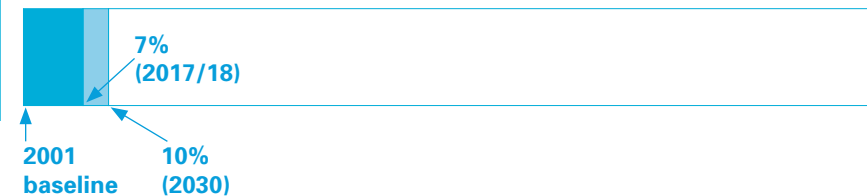
reduction targets as well as building on our legacy of clever water reuse engineering, coupled with effective and informed demand management strategies. Audits of water saving opportunities for Council's buildings and irrigated sports fields were conducted in 2019 and 2020 to inform and prioritise actions to continue on its water conservation trajectory.

Where we want to be

4. 50% potable water use reduction in Council operations from the 2001/02 baseline before 2030

5. 10% reduction in the North Sydney community's potable water use from the 2001/02 baseline before 2030

How we are tracking



What we have achieved so far

- installation of an award-winning stormwater harvesting and reuse system that replaces 30 million litres of potable water per year at Cammeray golf course, North Sydney Oval, St Leonards, Primrose, Tunks and Forsyth Parks, and a water reuse system to irrigate the Coal Loader Platform green roof
- regular audits and water efficiency upgrades of all Council's facilities
- installation of rainwater tanks at various Council facilities totalling a capacity of 643,250L for irrigation, street cleaning and toilet flushing
- working with the North Sydney residential and business community to reduce their potable water consumption by:
 - Delivering regular community water conservation education workshops
 - Funding the installation of water tanks at local schools
 - Providing water conservation advice, including audits and action plans, to local businesses

What we will do to achieve our targets

- strongly advocate for the protection of Council's stormwater harvesting and reuse system throughout the Western Harbour Tunnel consultation, construction and operation
- regularly conduct water audits and efficiency upgrades of Council's parks and facilities
- install additional rainwater tanks and water reuse systems at Council parks and facilities
- review and update the water provisions in Council's *Local Environment Plan* (LEP) and *Development Control Plan* (DCP) to encourage the reuse of greywater, rainwater and stormwater through the development control process
- enhance open spaces with smart technology to reduce potable water consumption
- adopt and implement Council's Sustainable Building Standards for Council owned facilities
- implement water conservation community and business education programs
- investigate opportunities to provide rebates to the community and businesses for water use improvements



3. WATER QUALITY

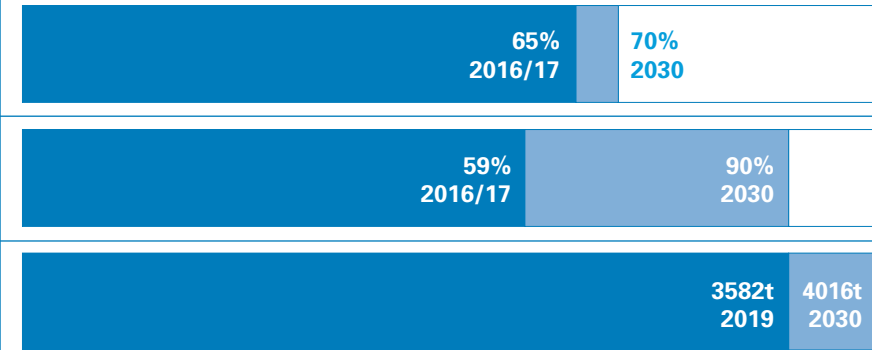
In urban areas like North Sydney, impervious surfaces like roads, roofs and stormwater drains have significantly changed natural flows, increasing the amount and velocity of water reaching the receiving waterways. Increased runoff and pollution from a variety of sources also cumulatively reduce water quality. Stormwater from the North Sydney LGA flows into Middle Harbour and Port Jackson, including via bushland

areas like Smoothery Park and Tunks Park. Council is strongly committed to minimising adverse impacts on these special areas and monitors several locations throughout the LGA to help us better understand and manage the many factors that contribute to water quality.

Where we want to be

- 6. 70% compliance with the Australian and New Zealand guidelines for fresh and marine water quality at Council’s water quality monitoring sites before 2030
- 7. 90% of stormwater in North Sydney’s catchments is treated by Stormwater Quality Improvement Devices before 2030
- 8. 10% more material (3940t) is kept out of our waterways by Council’s stormwater improvement programs than in 2019 (3582t) before 2030

How we are tracking



What we have achieved so far

- Council operates proactive street sweeping and pit cleaning programs which removed 3048t of material in 2019
- installation of 26 Stormwater Quality Improvement Devices (SQIDs) including Gross Pollutant Traps (GPTs) that removed a further 527.6t of material in 2019
- installation of five water sensitive urban design systems, to increase water permeating into the soil, reducing flooding and nutrient and sediment load
- implementation of catchment education and litter prevention initiatives, in particular Council's HarbourCare volunteer program which has been extended to several other Council areas. In 2019 HarbourCare volunteers removed 6.7t of materials from our foreshore areas

What we will do to achieve our targets

- regularly monitor local waterway conditions
- develop an Integrated Stormwater Strategy
- integrate Water Sensitive Urban Design (WSUD) on public and private land wherever possible to detain and treat urban stormwater
- continually improve street sweeping to capture debris before entering the stormwater systems
- maintain, upgrade, replace and install new GPTs to effectively capture storm water pollution and debris from entering the harbour
- strengthen measures to reduce stormwater pollution incidents from building sites
- continue to collaborate with the Sydney Coastal Councils Group and NSW Government to develop appropriate coastal management practices on a catchment wide scale through a Coastal Management Program (CMP)
- support the HarbourCare program
- carry out Catchment Education Programs



4. ENGAGEMENT IN SUSTAINABILITY

North Sydney residents are an active and engaged community with a long history of working together to achieve positive outcomes for the environment through individual and collective action. To support the ongoing transition to more sustainable ways of living and doing business, Council coordinates a range of activities designed to suit the needs and areas of interest of our residents, businesses and school communities. According to UNESCO (United Nations Educational, Scientific and Cultural

Organization) “education alone cannot achieve a more sustainable future; however, without education and learning for sustainable development, we will not be able to reach that goal”. Council subscribes to this sentiment and employs environmental education and engagement as vital tools to help achieve its environmental sustainability targets.

Where we want to be

9. 12,000 annual participants in Council’s environmental sustainability engagement activities before 2030

10. 90% of participants in Council’s environmental sustainability engagement activities are motivated and enabled to take actions to improve environmental sustainability outcomes before 2030

How we are tracking



What we have achieved so far

- delivered more than 100 workshops, events, and activities every year, many hosted at the Coal Loader Centre for Sustainability
- 57,500 hours over 10 years contributed to improving local environmental outcomes by members of Council's various volunteer programs including Bushcare, Adopt-a-Plot, Wildlife Watch, Native Havens, Streets Alive, community gardens and Harbourcare
- ongoing support to the local business community through Council's award-winning Sustainable Business Programs
- more than 3000 participants in Council's 2019 sustainable transport education initiatives including the North Sydney Bike Brekkie, and school active travel programs
- establishment of more than 120 local food gardens, including many communal apartment building gardens, in the last 6 years through the Harvest North Sydney Program
- 10 years of annual school grants which have funded rainwater tanks, kitchen gardens, biodiversity trails, litter audits and student engagement programs
- development of detailed energy and water reports for 97 strata buildings participating in Council's Futureproofing Apartments program between Jan 2019 and July 2020 resulting in 195 tCO₂e annual emission savings with more expected as other identified projects are implemented over time

What we will do to achieve our targets

- continue to be guided with sustainability as a core value of Council
- demonstrate environmental sustainability practices at community events and in Council's operations
- support Council's cross organisational sustainability team
- regularly train and support Council staff in implementing sustainability practices
- continue to support and expand community volunteer programs, including Bushcare, Adopt-a-Plot, Wildlife Watch, Native Havens, Streets Alive, community gardens and Harbourcare
- continue to support schools, businesses and residents to achieve environmentally sustainable best practice
- recognise, develop and celebrate community, businesses and Council staff sustainability champions
- work with the community to reduce waste, and to use waste more efficiently
- implement community education campaigns that encourage active transport/use of public transport and alternative modes of transport
- develop and implement an Urban Forest Education Program to convey to all stakeholders the value and importance of urban forests in achieving sustainability outcomes
- increase community resilience to climate change impacts
- trial an environment group in residence space at the Coal Loader Centre for Sustainability



5. URBAN ECOLOGY

Less than five percent of the original (pre-European settlement) bushland vegetation remains in North Sydney and primarily occurs in narrow, fragmented reserves that are vulnerable to urban pressures. Despite the small, fragmented and highly impacted character of bushland in North Sydney, a surprising diversity of native plants and animal remain. This is due largely to the ongoing active management of all bushland areas involving staff, contractors and local volunteers, guided by Council’s *Bushland Rehabilitation Plans* and its *Bushland Plan of Management*. However, fragmentation remains one of the greatest threats to biodiversity conservation in North Sydney, and bridging these divides is key to the survival of native fauna and flora, particularly in the face of a rapidly changing climate.

Trees and shrubs, including exotic species, provide habitat and connectivity for wildlife as well as a range of other environmental benefits including energy conservation through shade and cooling, reduction of atmospheric contaminants, carbon sequestration, and reduction in stormwater runoff. Total canopy cover however has declined from 33.9% in 2008 to 28.2% in 2017, with the losses primarily in suburban areas and on private land. Council is committed to reversing this trend and revised its 2011 *Urban Forest Strategy* in 2019 to provide a roadmap to achieve this increase in canopy cover for the LGA.

Where we want to be

11. 80% of bushland is in good condition before 2030

12. Maintain or increase number of locally native fauna and flora species found in North Sydney compared to 2010 levels until 2030

13. 34.4% total canopy cover before 2030

How we are tracking



What we have achieved so far

- continued bushland rehabilitation works since the mid 1980's
- investment of resources into ecosystem enhancement activities such as building species diversity, habitat complexity, reserve connectivity, ecological burns and addressing external impacts such as stormwater outlets, feral animal control, garden escape weeds and tree vandalism
- regeneration of several plant species, previously unrecorded in the local government area, following managed eco-burns
- the return of Long-nosed Bandicoots, Swamp Wallaby and Superb Lyre-bird to several North Sydney bushland reserves following decades of local extinction
- supply of over 16,000 endemic tubestock plants to local residents through the Native Havens program over the last 15 years, as well as native beehives, insect hotels and nest-boxes to provide habitat and improved connectivity between bushland reserves
- establishing buffer zones through our development controls that strengthen connectivity and ensure local native plants, as well as habitat features are incorporated in the landscape design of properties near bushland areas
- adopting planning studies that enable increased deep soil planting in centres
- working with other public land managers in the Sydney north region to implement coordinated fox control since 2000
- working in partnership with several Sydney-based universities for over 20 years to make our seawalls some of the most habitat friendly in the world

- revising its *Urban Forest Strategy* in 2019
- planting of more than 400 street and park trees per annum, providing corridors and linkages between fragmented bushland

What we will do to achieve our targets

- develop and implement an Urban Forest Incentives Program to encourage and reward community members that contribute to the urban forest vision
- regularly assess the North Sydney urban forest canopy cover using aerial imagery
- continue working to conserve and rehabilitate our bushland, coordinate the Bushcare Program and facilitate community tree planting events
- integrate street tree planting and other landscape treatments to improve microclimates and biodiversity
- implement the Bushland Rehabilitation Plans effectively and with appropriate resourcing levels
- identify opportunities to create and/or enhance green corridors linking bushland within North Sydney and in neighbouring Council areas
- conserve the habitats of threatened species and implement actions that foster their recovery
- identify further opportunities to maximise deep soil opportunities in centres and densely populated areas in planning studies



6. RESOURCE RECOVERY

North Sydney Council has a long history of demonstrating leadership in waste management. Landfill diversion rates have consequently been amongst the highest in the state and certainly in the region. Council has been at the forefront of waste processing for many years and has consistently been rated highly in striving to meet and exceed the NSW Environmental Protection Agency’s (EPA) landfill diversion targets. Changes in the waste industry have caused significant uncertainty which in the short and medium term will set back Council’s efforts to divert waste from landfill and increase recycling rates.

Until 2019, all mixed solid waste received in Council’s red bins was processed through an alternative waste facility, where organic material was separated, composted and utilised for mine site rehabilitation and

on agricultural land but issues with the quality of the organic product led to an EPA NSW ban on this processing practice. Significant investment will be required at a state and federal level over the next 10 years to deliver adequate alternative waste treatment infrastructure to enable Council to meet its aspirational waste diversion from landfill target. Council also needs to look at new ways of managing its waste.

Similarly, in 2017 China announced it would no longer accept recyclable materials from around the globe including Australia due to the contamination levels of materials exported to China. Due to Council’s recycling contract, most of North Sydney’s recycling stays in Australia, but this may change in the future at the contactor’s discretion.

Where we want to be

14. 10% reduction in tonnes of waste generation per household from 2019/20 levels before 2030

How we are tracking

0.358t
2019/20

10%
2030

15. 80% recycling rates for municipal solid waste before 2030

37%
2018/19

80%
2030

16. 70% waste diversion from landfill before 2030

39%
2018/19

70%
2030

17. Council’s operations will be free of unnecessary single use plastics before 2025

62,646 items purchased
2018/19

0 items purchased
2025

What we have achieved so far

- operation of the Community Recycling Centre (CRC) in Artarmon on behalf of five other councils in the northern Sydney region
- consistent advocacy for over a decade for container deposit legislation
- introduction of the first kerbside e-waste collection system in NSW
- introduction of the first volume-based garbage charge system to encourage the uptake of reduced-size garbage bins and incentivise residents to recycle more
- provision of a suite of resource recovery education programs and workshops to the community, including the first worm farming, composting and green cleaning workshops in NSW
- adoption of a *Single Use Plastics Policy* in 2019 that applies to all Council operations as well as third party activities conducted in Council owned venues and parks
- council exceeded past targets set by government, with landfill diversion rates amongst the highest in the state before the EPA NSW ban on separating and processing organic material from general waste came into place

What we will do to achieve our targets

- continue to support, initiate and promote waste related workshops and community events
- continue to collaborate with Northern Sydney Regional Organisation of Councils (NSROC) to incentivise the private commercial industry in investing in innovative and sustainable waste/recycling processing options
- explore options for resource recovery and alternative waste treatment
- ensure Council's waste and recycling services continue to support the community in their desire to live more sustainably
- encourage building design and construction techniques which will minimise future waste generation
- improve development controls for multi-unit developments ensuring adequate onsite space for bin collection for waste recycling, greenwaste and storage of source separated household waste including future additional waste streams
- implement measures to increase range of materials that can be recycled by households e.g. mattresses, polystyrene, clothing
- implement measures to increase resource recovery from pre-booked household clean up collection
- support the ongoing implementation of Council's *Single Use Plastics Policy*
- review and update Council's procurement processes to reduce extraction and production and increase recycled content of purchased materials
- conduct a food waste trial to help divert this waste from landfill

7. SUSTAINABLE TRANSPORT

In 2016-17 transport generated 18.5% of the North Sydney LGA’s greenhouse gas emissions, representing the second most significant portion of emissions generated in North Sydney after electricity consumption. Supporting a shift to travel modes that produce less greenhouse gas (GHG) emissions will therefore play an important role in reducing our carbon footprint.

We are also experiencing a period of rapid transformation in travel

behaviour, which among other things is likely to lead to declining car ownership rates, reduced uptake of drivers licences by younger adults and increasing demand for electric vehicle charging facilities. To support these trends, Council adopted a Transport Strategy that prioritises walking, cycling, public transport and local deliveries over private vehicle use. This modal hierarchy will be applied to the development of all relevant Council policies.

Where we want to be

- 18. 85% of residents and workers travel to and from work using modes of transport other than sole occupant vehicles before 2030
- 19. 25% of households have no motor vehicles before 2030
- 20. 50% of new private vehicles purchased by North Sydney Council residents will be of non-internal combustion engine vehicles before 2030
- 21. Reduce Council’s passenger and commercial fleet by 10% based on 2019 levels before 2030
- 22. All of Council’s passenger and commercial fleet, excluding specialised and earth moving equipment, is electric before 2030

How we are tracking

Residents	80% 2016	85% 2030
Workers	50% 2016	85% 2030
	16.4% 2016	25% 2030
	0.7% 2018	50% 2030
	2019: 111 vehicles 2030: 100 vehicles	
	0% 2020	100% 2030

What we have achieved so far

- development of the 2017 *North Sydney Transport Strategy*
- installation of 7.5 kilometres of cycle paths and cycle route upgrades between 2015 and 2019
- installation of more than 120 bike parking rails between 2015 and 2019
- supporting the growth of the car share market by increasing dedicated car share spaces from 25 in 2008 to 146 in 2019
- working with the NSW State Government to plan for regional cycling connections within the North Sydney LGA and to surrounding areas
- development of the *North Sydney CBD Transport Masterplan*, *North Sydney CBD Public Domain Strategy* and ongoing participation in the NSW Government's North Sydney Integrated Transport Program (NSITP) that will deliver improved place, walking, cycling and public transport outcomes in and around the North Sydney CBD in time for the opening of Victoria Cross Metro Station
- installation of 10 EV chargers across Council car parking stations in 2019
- adopted planning studies for St Leonards/Crows Nest, Neutral Bay and Civic Precinct that promote walking, cycling and public transport use

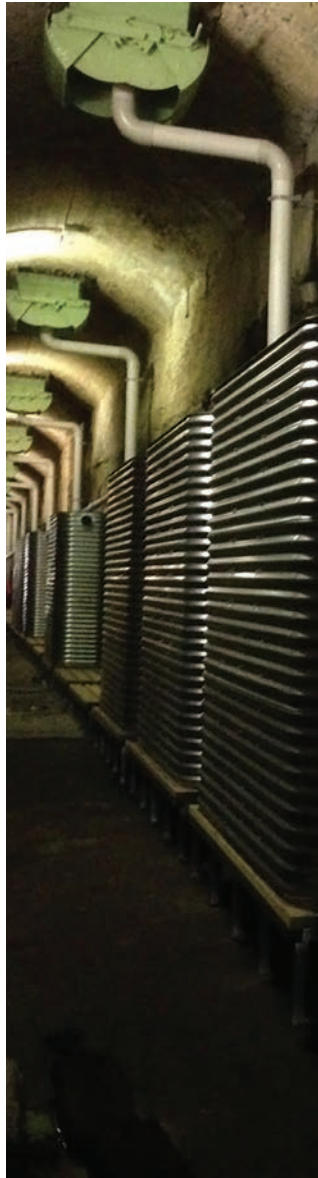
What we will do to achieve our targets

- implement the *North Sydney Transport Strategy's* modal hierarchy
- construct footpaths and cycleways
- facilitate, advocate and provide opportunities for improved public transport use, alternative modes of transport and end of trip facilities
- identify precincts located outside of the walkable catchments of high-quality public transport services and either directly deliver or advocate for initiatives that improve public transport access in these areas
- incentivise use of public transport and lower impact vehicles
- compare the relative accessibility of regional destinations by private vehicle and public transport and identify projects that improve public transport access to regional destinations
- assess the suitability of existing and proposed parking and traffic infrastructure to identify where the targeted application of parking policy and demand management initiatives may support reduced car ownership and use, provide more equitable access to parking and reduce traffic volumes in North Sydney.
- strengthen planning controls to increase the availability of car share schemes
- encourage electric car share providers in preference to those with internal combustion engines
- develop a public parking EV charging infrastructure strategy
- strengthen planning controls to ensure car parking areas are designed and constructed so that EV charging points can be installed
- switch all of Council's passenger and commercial fleet, excluding specialised and earth moving equipment, to electric vehicles





8. ACTION PLAN



ACTION PLAN: CARBON FOOTPRINT					
#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
CF1	Conduct and implement findings of energy audits at Council facilities	2	Audits completed Actions implemented	Every 4 years Ongoing	Environmental Services Property Assets
CF2	Adopt and implement the Sustainable Building Standards for Council owned facilities to reduce their energy related carbon footprint	1, 2	Evidence of implementation Tonnes CO2e saved	Ongoing	Environmental Services Property Assets
CF3	Increase Council's renewable energy capacity	1	Combined kW of Council's renewable energy generation capacity	Ongoing	Property Assets Environmental Services
CF4	Purchase 100% renewable electricity	1, 2	100% of Council's electricity is renewable	2030	Property Assets Environmental Services
CF5	Purchase carbon offsets for the residual emissions to achieve carbon neutrality	2	Carbon neutrality is achieved	2030	Environmental Services
CF6	Undertake regular energy monitoring	1	Monitoring completed	Quarterly	Environmental Services Property Assets
CF7	Consider the impacts of climate change, including urban heat, in Council's plans, strategies and policies	1,2, 3	% of plans, strategies and policies that consider the impacts of climate change	Ongoing	Environmental Services Strategic Planning Corporate Planning & Engagement
CF8	Pursue improvements to North Sydney's street lighting network	2	Tonnes CO2e saved	Ongoing	Traffic & Transport Operations
CF9	Identify opportunities for accelerating smart technology solutions for better energy/environmental management in the LGA	1, 2, 3	Smart technology implemented	Ongoing	Environmental Services
CF10	Review planning controls to drive a lower embodied carbon footprint during the design and construction phase of both commercial and residential buildings	3	Review completed	2022/23	Strategic Planning Environmental Services
CF11	Implement efficiencies for Council owned public lighting	2	Tonnes CO2e saved	Ongoing	Asset Management Parks & Reserves Environmental Services

ACTION PLAN: CARBON FOOTPRINT

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
CF12	Review and update the energy provisions planning controls to incorporate best practice energy management measures	3	Review completed	2022/23	Environmental Services Strategic Planning Development Services
CF13	Investigate opportunities to provide residential and business rebates for energy conservation and renewable energy	3	Review completed	2021/22	Environmental Services Development Services
CF14	Advocate that the NSW and Federal governments respond to the climate emergency through a range of measures, including higher Building Sustainability Index (BASIX) targets and reintroducing a price on carbon, to incentivise higher resource use standards and support the transition to high performing energy buildings	1, 2, 3	Evidence of advocacy	Ongoing	Environmental Services Strategic Planning
CF15	Electrify Council operations and equipment to utilise electricity from renewable sources instead of fossil fuels including gas	2	Electric equipment purchases	Ongoing	Property Assets Works Engineering Environmental Services
CF16	Investigate the feasibility of divesting from organisations associated with fossil fuels	2	Feasibility assessment completed	2021/22	Financial Services Environmental Services
CF17	Facilitate presentations by community energy organisations	3	Number of presentations facilitated	Ongoing	Environmental Services
CF18	Investigate opportunities to create a distributed energy generation network that can provide an alternative to grid supplied electricity and gas networks	3	Investigation completed	Ongoing	Environmental Services
CF19	Investigate opportunities to facilitate the purchase of electricity from renewable sources for the North Sydney community.	3	Investigation completed	Ongoing	Environmental Services

ACTION PLAN: WATER CONSERVATION

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
WC1	Regular water usage monitoring	4	Monitoring completed	Ongoing	Environmental Services Property Assets
WC2	Strongly advocate for the protection of Council's stormwater harvesting and reuse system throughout the Western Harbour Tunnel consultation, construction and operation	4, 5	Evidence of advocacy	Ongoing	Engineering Infrastructure Strategic Planning Environmental Services
WC3	Conduct regular water audits and efficiency upgrades of Council's parks and facilities	4	Audits completed	Every 4 years	Environmental Services Parks & Reserves Property Assets
WC4	Implement the water conservation recommendations of the 2020 Sporting Fields Water Optimisation Report	4	Actions implemented Litres of water saved	Ongoing	Environmental Services Parks & Reserves
WC5	Implement the 2019 Water Audit & Water Management Plan	4	Actions implemented Litres of water saved	Ongoing	Environmental Services Property Assets North Sydney Olympic Pool
WC6	Investigate opportunities to install additional rainwater tanks and water reuse systems at Council parks and facilities	4	Number of new rainwater tanks and reuse systems installed Litres of water saved	Ongoing	Environmental Services Parks & Reserves Property Assets
WC7	Adopt and implement Council's Sustainable Building Standards for Council owned facilities to reduce their potable water consumption	4	Evidence of implementation Litres of water saved	Ongoing	Environmental Services Property Assets
WC8	Enhance open spaces with smart technology to reduce potable water consumption	4	Smart technology implemented	Ongoing	Environmental Services

ACTION PLAN: WATER CONSERVATION

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
WC9	Encourage the reuse of greywater, rainwater and stormwater through the development control process	5	Review of Council's planning controls completed, including the Local Environment Plan (LEP) and Development Control Plan (DCP)	2022/23	Environmental Services Strategic Planning Development Services
WC10	Review and update the water provisions in Council's planning controls to minimise the use of potable water	5	Review of Council's planning controls completed, including the Local Environment Plan (LEP) and Development Control Plan (DCP)	2022/23	Environmental Services Strategic Planning Development Services
WC11	Investigate opportunities to provide rebates to the community and businesses for water use improvement	5	Review completed	2021/22	Environmental Services
WC12	Advocate to increase Building Sustainability Index (BASIX) targets to achieve more significant potable water use reductions through the development process	5	Evidence of advocacy	Ongoing	Environmental Services Strategic Planning
WC13	Implement water conservation community and business education programs	5, 9, 10	Litres of water saved or avoided	Ongoing	Environmental Services
WC14	Investigate and further implement non-potable water harvesting opportunities, including reticulation options	4	Implementation of non-potable water harvesting opportunities	Ongoing	Environmental Services Parks & Reserves

ACTION PLAN: WATER QUALITY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
WQ1	Regularly monitor local waterway conditions	6	Quarterly monitoring completed	Ongoing	Environmental Services Environment & Building Compliance
WQ2	Develop an Integrated Stormwater Strategy	6, 7	Strategy developed	2023/24	Environmental Services Engineering Infrastructure Development Services
WQ3	Integrate Water Sensitive Urban Design (WSUD) on public and private land wherever possible to detain and treat urban stormwater	6, 7	Installation of WSUD devices	Ongoing	Engineering Infrastructure Development Services Environmental Services
WQ4	Continually improve street sweeping and pit cleaning to capture debris before entering the stormwater systems	8	Tonnes of material collected	Ongoing	Environmental Services
WQ5	Maintain, upgrade, replace and install new Gross Pollutant Traps (GPTs) to effectively capture storm water pollution and prevent debris from entering the Harbour	7, 8	Tonnes of material collected % of catchment treated	Ongoing	Engineering Infrastructure
WQ6	Review planning processes to strengthen measures to reduce stormwater pollution incidents from building sites	6	Planning processes reviewed	2022/23	Environmental Services Environment & Building Compliance Ranger & Parking Services
WQ7	Protect watersheds by minimising stormwater discharge and maximising stormwater quality from developments	6	Reduction in stormwater pollution incidents from developments	Ongoing	Development Services Environment & Building Compliance
WQ8	Continue to collaborate with the Sydney Coastal Councils Group and NSW Government to develop appropriate coastal management practices on a catchment wide scale through a Coastal Management Program (CMP), and incorporate the recommendations and actions of any CMP into the Local Environment Plan (LEP) and Development Control Plan (DCP) where relevant	6, 7, 8	Incorporation of CMP recommendations and actions into NSLEP and NSDCP	Ongoing	Environmental Services Strategic Planning

ACTION PLAN: WATER QUALITY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
WQ9	Continue to liaise with adjoining Councils and relevant authorities to adopt a total catchment management approach to manage urban runoff using WSUD principles	6, 7, 8	Evidence of collaboration	Ongoing	Engineering Infrastructure Development Services Environmental Services
WQ10	Inspection of all premises with a wastewater system to monitor for compliance with legislation	6	Number of inspections completed	Ongoing	Environmental & Building Compliance
WQ11	Support the HarbourCare program	8-10	Tonnes of material collected	Ongoing	Environmental Services
WQ12	Carry out catchment education programs	6, 8-10	Programs implemented	Ongoing	Environmental Services
WQ13	Carry out litter prevention programs	8-10	Tonnes of material collected or avoided	Ongoing	Environmental Services

ACTION PLAN: ENGAGEMENT IN SUSTAINABILITY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
ES1	Sustainability continues to be a core value of Council	1-22	Sustainability is listed as a core value of Council in its corporate documents	Ongoing	Corporate Planning & Engagement Environmental Services
ES2	Regularly train and support Council staff in implementing sustainability practices	1, 2, 4, 6, 8- 18, 21, 22	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Environmental Services
ES3	Support Council's cross organisational sustainability team	1, 2, 4, 6, 8- 18, 21, 22	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Environmental Services
ES4	Promote environmental sustainability practices at events and in Council operations	1-6, 10, 11, 13-20	Evidence of environmental sustainability practices at events	Ongoing	Environmental Services Communications & Events Customer Services & Records
ES5	Implement school, business and community programs to reduce their local ecological footprint (incl: school grants, Sustainable food, City Switch, Better Business Partnership, and the Futureproofing Apartments Program)	3, 5, 6, 9-11, 13-15, 17-20	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Environmental Services Traffic & Transport Operations
ES6	Recognise, develop and celebrate community, businesses and Council staff sustainability champions	3, 5, 6, 9-11, 13-15, 17-20	Regular celebrations held	Ongoing	Environmental Services
ES7	Continue to support and expand environmental volunteer programs, including Bushcare, Adopt-a-Plot, Wildlife Watch, Native Havens, Streets Alive, community gardens and Harbourcare	8-12	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Environment Services
ES8	Develop a reserve-level education program to engage with bushland neighbours and enrich reserve user experience	9, 10, 11	Program developed	2030	Environmental Services
ES9	Facilitate community tree planting events	9, 13	Number of trees planted	Ongoing	Environmental Services

ACTION PLAN: ENGAGEMENT IN SUSTAINABILITY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
ES10	Develop and implement an Urban Forest Education Program to convey to all stakeholders the value and importance of urban forests	9, 10, 13	Participation numbers % of participants motivated and enabled to take actions	2023/24	Landscape Planning & Design
ES11	Ongoing implementation of the Bushcare workshops, events and school holidays program, that aims to enhance community understanding and appreciation for urban bushland and the natural environment	9, 10, 11, 12	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Environmental Services
ES12	Develop programs to increase community resilience to climate change impacts	3, 5, 9, 10, 13, 14, 18-20	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Environmental Services
ES13	Implement education and behaviour change programs to influence the behaviour of local residents and businesses to drive the shift to renewable energy and energy efficiency	3, 9, 10, 18-20	Tonnes of CO2e saved or avoided	Ongoing	Environmental Services
ES14	Trial a Tool Library at the Coal Loader Centre for Sustainability	3, 5, 6, 9, 10, 12, 14-16, 18, 19	Program trialled, evaluated and continued	2021/22	Environmental Services
ES15	Investigate establishing a Sustainability Group in Residence Program at the Coal Loader Centre for Sustainability	3, 5, 6, 9, 10, 12, 14-16, 18, 19	Investigation completed	2022/23	Environmental Services
ES16	Trial a sustainable building design support service to reduce the ecological footprint of development in the LGA	3, 5, 6, 9, 10, 14	Participation numbers % of participants motivated and enabled to take actions	2022/23	Environmental Services
ES17	Provide education to the community to reduce waste, use resources more efficiently, and participate in the circular economy including by supporting, initiating and promoting waste related workshops and community events	9, 10, 14-16	% of participants motivated and enabled to take actions	Ongoing	Environmental Services
ES18	Implement community education campaigns that encourage active transport/use of public transport and alternative modes of transport	9, 10, 18, 19	Participation numbers % of participants motivated and enabled to take actions	Ongoing	Traffic & Transport Operatios

ACTION PLAN: URBAN ECOLOGY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
UE1	Continue to advocate for the protection/increase of tree canopy cover (urban forest) across all local and state government projects	13	Number of representations made by Council	Ongoing	Corporate Planning & Engagement Environmental Services
UE2	Develop and implement an Urban Forest Incentives program to encourage and reward community members that contribute to the urban forest vision	9, 10, 13	Urban Forest Incentives program developed and implemented	Ongoing	Environmental Services
UE3	Regularly assess the North Sydney Urban Forest canopy cover using aerial imagery	13	Canopy cover data obtained	Ongoing	Environmental Services
UE4	Continue working to conserve and rehabilitate the LGA's bushland	11, 12, 13	Bushland condition	Ongoing	Environmental Services Communications & Events Customer Services & Records
UE5	Coordinate the Bushcare and Adopt-a-Plot programs	9, 11, 12	Volunteer hours Bushland condition	Ongoing	Environmental Services Traffic & Transport Operations
UE6	Implement Native Havens and Wildlife Watch programs	9, 12	Participation numbers	Ongoing	Environmental Services
UE7	Implement the Bushland Rehabilitation Plans	11, 12	Bushland condition	2030	Environmental Services
UE8	Implement the Bushland Plan of Management	11, 12	Bushland condition	Ongoing	Environmental Services
UE9	Integrate street tree planting and other landscape treatments to improve microclimates, reduce the heat island effect and increase biodiversity	13	Number of trees planted	Ongoing	Parks & Reserves Project Management Engineering Infrastructure Works Engineering
UE10	Ensure that all trees that have to be removed are replaced wherever feasible	13	% of removed trees that are replaced	Ongoing	Parks & Reserves Environmental Services Development Services
UE11	Identify opportunities to create and/or enhance green corridors linking bushland within North Sydney and in neighbouring LGAs	11, 12, 13	Number of new or enhanced green corridors	Ongoing	Environmental Services

ACTION PLAN: URBAN ECOLOGY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
UE12	Establish a dedicated Open Space Compliance Program to better address illegal, damaging and anti-social activities in parks and bushland	11, 12	Program established	2030	Environmental Services
UE13	Update Natural Area Survey at 10-year intervals to retain a current biodiversity inventory and reflect changes in legislation	11, 12	Survey completed	2030	Environmental Services
UE14	Conserve the habitats of threatened species and implement actions that foster their recovery	11, 12	Habitats conserved and actions implemented	2030	Environmental Services
UE15	Establish a provenance protocol to inform bushland revegetation and supplementary planting activities	11, 12	Program established	2030	Environmental Services
UE16	Address impacts caused by increasing usage pressures on bushland (e.g. limit access to sensitive foreshore reserves during large public events such as New Year's Eve)	11, 12, 13	Impacts addressed	2030	Environmental Services
UE17	Evaluate and rationalise bushland walking tracks, picnic areas and lookout facilities to provide high quality facilities and better bushland protection	11, 12	Evaluations and rationalisation completed	2030	Environmental Services
UE18	Identify planning opportunities for additional deep soil to support large tree canopies in growth areas to counter the loss of canopy cover in centres	11, 12, 13	Number of planning studies increasing space for tree canopy	Ongoing	Strategic Planning Environmental Services
UE19	Increase the population of native flowering plants in parks and streetscapes	12	Percentage of native flowering plants planted	Ongoing	Parks & Reserves
UE20	Use fire as a management tool to maintain bushland biodiversity and reduce hazards	11, 12, 13	Burns are carried out in accordance with the Bushland Rehabilitation Plans	Ongoing	Environmental Services
UE21	Develop and implement an Urban Forest Incentives program	12, 13	Program developed and implemented	2022/23	Landscape Planning & Design
UE22	Assess, prioritise and commence tree planting at new sites in accordance with policies, strategies or programs	13	No. of trees planted	Ongoing	Parks & Reserves

ACTION PLAN: RESOURCE RECOVERY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
RR1	Ensure Council's waste and recycling services continue to support the community to live more sustainably	15, 16	Community satisfaction surveys	Ongoing	Environmental Services
RR2	Explore options for resource recovery and alternative waste treatment	15, 16	Regular reviews conducted	Ongoing	Environmental Services
RR3	Encourage building design and construction techniques that minimise future waste generation	16	Regular review of development controls	Ongoing	Strategic Planning Development Services Environmental Services
RR4	Maximise reuse and recycling of building and construction materials, as well as household, industrial and commercial waste	15, 16	Regular review of development controls	Ongoing	Strategic Planning Development Services Environmental Services
RR5	Improve development controls for multi-unit developments ensuring adequate onsite space for bin collection for waste recycling, greenwaste and storage of source separated household waste including future additional waste streams	15, 16	Regular review of development controls	Ongoing	Strategic Planning Development Services Environmental Services
RR6	Implement measures to increase resource recovery from pre-booked household clean up collection	16	Measures implemented	Ongoing	Environmental Services
RR7	Implement measures to increase the range of materials that can be recycled by households	15, 16	Measures implemented	Ongoing	Environment Services
RR8	Support the ongoing implementation of Council's Single Use Plastics Policy	17	Zero use of avoidable single use plastics	2030	Environmental Services Procurement
RR9	Implement programs to support the community to reduce their use of Single Use Plastics	9, 10, 14	Programs implemented	Ongoing	Environmental Services
RR10	Implement programs to support the community to reduce their waste generation	14	Programs implemented	Ongoing	Environmental Services

ACTION PLAN: RESOURCE RECOVERY

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
RR11	Review and update Council's procurement processes to support the circular economy, reduce extraction and production, and increase recycled content of purchased materials	15, 16	Regular reviews and updates completed	Ongoing	Environmental Services Procurement
RR12	Continue to collaborate with the Northern Sydney Regional Organisation of Councils (NSROC) to incentivise the private commercial industry in investing in innovative and sustainable waste/recycling processing options	15, 16	Evidence of collaboration	Ongoing	Environmental Services
RR13	Work with the NSW Government on the development of a long-term vision and strategy for waste and resource recovery in NSW, including the development of new or enhanced policies and programs, and a framework for the delivery of an integrated state infrastructure network to ensure waste processing is being considered and delivered in appropriate locations	15, 16	Evidence of collaboration	Ongoing	Environmental Services
RR14	Advocate for the Commonwealth and NSW Government to continue to work with the commercial waste industry to implement product stewardship schemes to manage problem wastes such as mattresses, paint, oils and tyres	15, 16	Evidence of advocacy	Ongoing	Environmental Services
RR15	Conduct a food waste trial to reduce the amount of organic waste going to landfill	16	Tonnes diverted from landfill	2021/22	Environmental Services
RR16	Continue to work with TOMRA to establish a Return and Earn collection point in a suitable location	15, 16	Evidence of collaboration	Ongoing	Environmental Services
RR17	Continue to provide subsidised compost bins and worm farms to local residents	14, 16	No. of compost bins and worm farms provided	Ongoing	Environmental Services

ACTION PLAN: SUSTAINABLE TRANSPORT

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
SS1	Implement the North Sydney Transport Strategy (NSTS)	18, 19, 20	Release identified NSTS modal strategies. Prioritise strategic projects identified in these strategies into Council's advocacy and forward works programs.	Ongoing	Strategic Planning Traffic & Transport Operations
SS2	Construct footpaths, cycleways and shared paths	18, 19	Footpaths and cycleways constructed	Ongoing	Traffic & Transport Operations Asset Management
SS3	Advocate the NSW Government to improve planning and delivery of integrated and efficient public transport	18, 19	Evidence of advocacy	Ongoing	Strategic Planning Traffic & Transport Operations
SS4	Facilitate, advocate and provide opportunities for improved public transport use, alternative modes of transport and end of trip facilities	18, 19	Increased resident and worker journey to work mode share.	Ongoing	Strategic Planning Traffic & Transport Operations
SS5	Advocate for and deliver projects that improve access to public transport for precincts currently not within a walkable distance of public transport nodes.	18, 19	Percentage of households within a 400m walk of a high frequency bus stop (>4 buses/hr) or an 800m walk of a train station.	Ongoing	Strategic Planning Traffic & Transport Operations
SS6	Incentivise use of public transport and lower impact vehicles	18, 19, 20	Incentive programs implemented	Ongoing	Strategic Planning Traffic & Transport Operations
SS7	As part of the development of the <i>North Sydney Public Transport & Advocacy Strategy</i> , compare the relative accessibility of regional destinations by private vehicle and public transport and identify, prioritise, advocate for and deliver projects that improve public transport access to regional destinations.	18, 19	Public transport journey times between North Sydney and identified regional destinations.	Ongoing	Strategic Planning Traffic & Transport Operations

ACTION PLAN: SUSTAINABLE TRANSPORT

#	Action	Related Target	Performance Measures	Timeframe	Responsible Council Department(s)
SS8	Assess the suitability of existing and proposed parking and traffic infrastructure to identify where the targeted application of parking policy and demand management initiatives may support reduced car ownership and use, provide more equitable access to parking and reduce traffic volumes in North Sydney	18, 19	Parking and traffic infrastructure review completed	2022/23	Strategic Planning
SS9	Strengthen planning controls to increase the availability of car share schemes	19	Planning controls strengthened	2022/23	Strategic Planning
SS10	Develop a Public Parking Electric Vehicle (EV) Charging Infrastructure Strategy	20	Strategy developed	2026/27	Strategic Planning, Traffic & Transport Operations, Engineering Infrastructure and Works Engineering, Environmental Services
SS11	Strengthen planning controls to ensure car parking areas are designed and constructed so that EV charging points can be installed, and cater for two way electricity storage when EVs are parked	20	Planning control updated	2022/23	Environmental Services Development Services Strategic Planning
SS12	Encourage electric car share providers in preference to those with internal combustion engines	20	Increase in electric car share providers in North Sydney Update Car Share Policy	Ongoing 2022/23	Traffic & Transport Operations
SS13	Switch all of Council's passenger and commercial fleet, excluding specialised and earth moving equipment, to EVs	22	Electrification of Council's passenger and commercial fleet	2030	Works Engineering
SS14	Electrify Council's passenger and commercial fleet to utilise electricity from renewable sources in favour of fossil fuels including gas	2	Electric equipment purchases	2030	Works Engineering
SS15	Investigate area-based parking rates for new development to support reduced car ownership and use	18, 19	Investigation complete	2023/24	Strategic Planning
SS16	Advocate the NSW Government and other relevant stakeholders to improve planning and delivery of integrated and efficient cycling networks, including as part of the Western Harbour Tunnel and Beaches Link and the Warringah Freeway upgrade	18, 19	Evidence of advocacy	Ongoing	Strategic Planning Traffic & Transport Operations
SS17	Consider the medium to long term role of bike sharing in the review of the <i>North Sydney Integrated Cycling Strategy</i>	18, 19	Role of bike sharing included in <i>North Sydney Integrated Cycling Strategy</i>	2021/22	Traffic & Transport Operations

9. SUPPORTING COUNCIL STRATEGIES AND PLANS

This table lists the Council strategies and plans that relate to the North Sydney Environmental Sustainability Strategy 2030

Supporting Strategy/Plan	Our carbon footprint	Water conservation	Water quality	Engagement in sustainability	Urban ecology	Resource recovery	Sustainable transport
Asset Management Plan (Stormwater Drainage)			✓				
Bushland Plan of Management				✓	✓		
Bushland Rehabilitation Plans (various)				✓			
Coal Loader Centre for Sustainability Business Plan	✓	✓	✓	✓	✓	✓	✓
Community Engagement Protocol				✓			
Delivery Program	✓	✓	✓	✓	✓		✓
Emissions and Water Review North Sydney Council	✓	✓					✓
Greenhouse Action and Water Management Plan	✓	✓	✓	✓		✓	✓
Local Strategic Planning Statement	✓	✓	✓		✓	✓	✓
North Sydney Community Strategic Plan	✓	✓	✓	✓	✓	✓	✓
North Sydney Council Energy Audits (various)	✓						
North Sydney Council Street Tree Strategy	✓		✓		✓		
North Sydney Council Urban Forest Strategy	✓		✓	✓	✓		
North Sydney Development Control Plan	✓	✓	✓	✓		✓	✓
North Sydney Local Environmental Plan	✓	✓	✓		✓	✓	✓
North Sydney Integrated Cycling Strategy				✓			✓
North Sydney Integrated Traffic and Parking Strategy							✓
North Sydney Transport Strategy				✓			✓
Public Amenities Strategy	✓	✓			✓	✓	✓
Optimised Water Use on Sporting Fields Report		✓	✓				
Public Domain Style Manual and Design Codes	✓		✓		✓	✓	✓
Renewable Energy Feasibility Study for the North Sydney Community	✓			✓			✓
Smart City Strategy and Action Plan	✓	✓	✓	✓	✓	✓	✓
Sydney Metro Planning Study							✓
Water Audit & Water Management Plan		✓					

