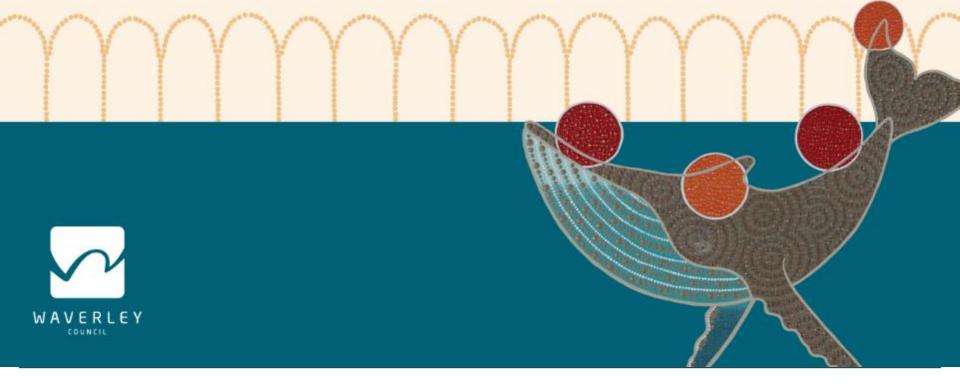


Getting to net zero: the relationship between targets and action



Acknowledgement of Country

Waverley Council would like to acknowledge the Bidjigal and Gadigal people, who traditionally occupied the Sydney Coast. We would also like to acknowledge Aboriginal Elders both past and present.



Environmental Action Plan

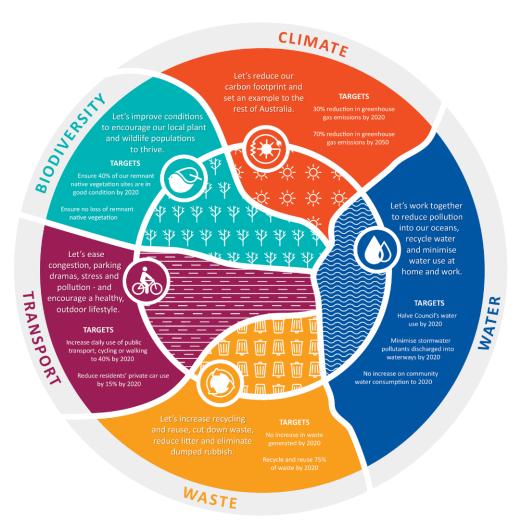
2018-2030



second nature

WAVERLEY







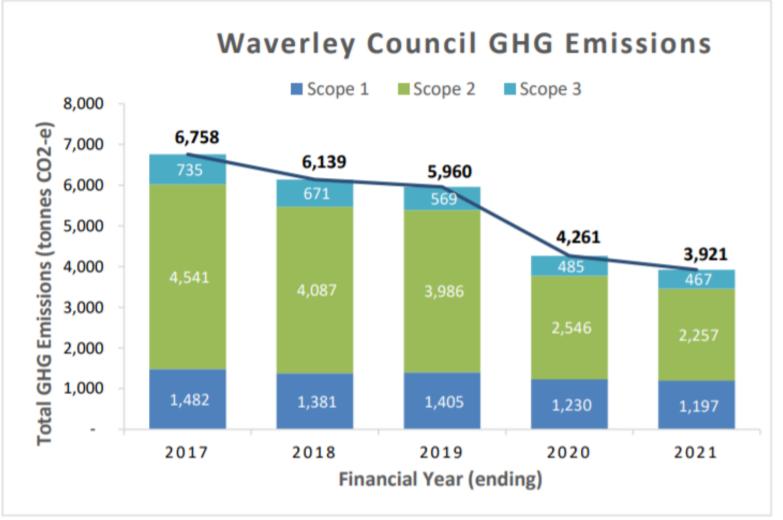
PROGRESS AGAINST TARGETS	ON TRACK WITH WORK NEEDED	WORK Waverley Council NEEDED Environmental Action Plan 10
Biodiversity	Council Greenhouse Gas Emissions	Council Water Use
Ensure no loss of remnant vegetation based on 2009/10 numbers	30% reduction of 2003/04 Council generated greenhouse gas emissions levels by 2020	50% reduction of 2005/06 levels of mains water consumption by 2020
2004/05 2014/15	2005/06 2017/2018 Target for 2020	2005/06 2017/2018
59,347m ² 59,921m ²	7,612 5,594 5,328 tonnes tonnes tonnes CO2 -e CO2 -e CO2 -e	61,785kL 70,586kL
40% of remnant vegetation	Community Greenhouse Gas Emissions	Community Water Use
2005/06 2014/15 Target for 2020 4% 40%	30% reduction of 2003/04 greenhouse gas emissions levels by 2020	Zero increase of 2005/06 levels of mains water consumption by 2020
2-	2005/06 2017/2018 Target for 2020	
	478,725 tonnes CO2 -e 475,763 tonnes CO2 -e 235,126 tonnes CO2 -e CO2 -e	2005/06 2017/2018 Target for 2020
A		6,208,951kL 6,564,106kL 6,208,951kL

Climate and Biodiversity Emergency

- Waverley declared Climate & Biodiversity Emergency in December 2019
- Council has a 100% renewable energy target by 2030
- This week Council resolved- and budgeted to go net zero by 2030



Council GHG



WAVERLEYCOUNCIL

Transition fleet to electric

 Costed and budgeted transition of full fleet including garbage compactors - to electric by 2030.





Renewable Energy

- Have purchased approximately 30% renewable energy for the last 3 years.
- Working to expand this to 100% RE in collaboration with SSROC and other Sydney Councils





Energy Efficiency

- Ongoing lighting upgrades (streetlighting and Council facilities).
- HVAC upgrades







Building specifications

 Council projects built to a very high standard. Eg Bondi Pavilion restoration 5 star green star, 70KW PV, recycled water, and reuse (embodied carbon)

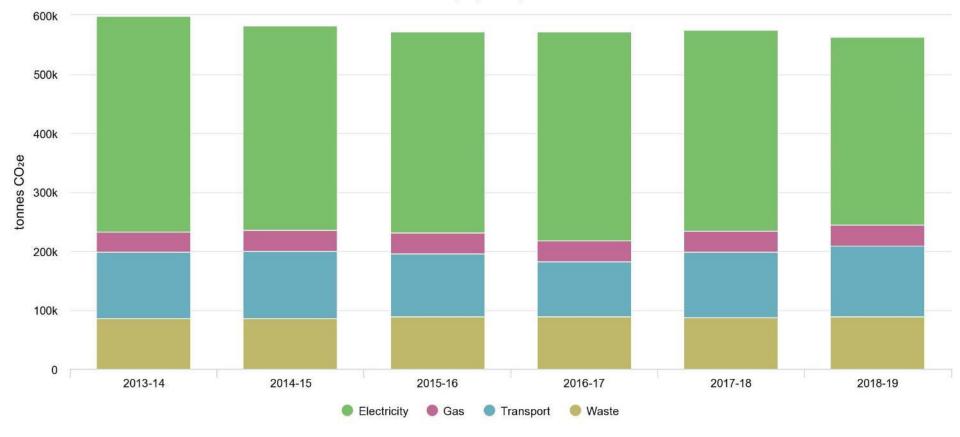




Community GHG

Waverley LGA - Community Greenhouse Gas Emissions by Source 2013/14 - 2018/19

Scopes (1 + 2 + 3)





How will we achieve our environment targets?

- Leadership by example
- Advocacy & Policy
- Partnerships & Collaboration



Capacity-building & Behaviour Change





BUILDING FUTURES

SUCCESS STORY





Future Proofing Residential Development to Climate Change Project

Modelled BASIX buildings in the Eastern Beaches region to determine the effects of future climate change on the buildings:

- Thermal comfort
- Energy and water use
- Greenhouse emissions
- Modelled 3 climate scenarios:
 - 2020 (Baseline year);
 - 2030; and
 - 2070
- Modelling was based on 5 building types comprising 217 dwellings.











This project has been assisted by the New South Wales Government and supported by Local Government NSW, and our council partners.









Thermal comfort & Energy results

- As the climate warms, houses will use significantly more energy for cooling than heating.
- In 2030, cooling loads increased by 70% on average above the Baseline Year for all dwelling types.
- In 2070, cooling loads increased by 308% on average.
- Dwellings currently approved under BASIX will be unsuitable for occupation by 2070, without extremely high levels of mechanical cooling.
- This will result in:
 - peak demand issues,
 - equity & affordability challenges; and
 - health risks during blackouts.





Solar My School

- Regional Environment Program with Randwick and Woollahra Councils
- **16 Councils now involved** (including 2 regional)
- Over 160 schools participating
- > 4MW will be installed by end of 2021
- Installed 8% of total solar in Sydney's eastern suburbs
- Replicable model: Solar my Club in 2020 (20 community organizations)





Electric Vehicle charging stations





Collaboration For Impact

COLLECTIVE IMPACT WORKSHOP



Creating lasting change through aligned efforts

