

Climate Change at City of Unley

Our path to Carbon Neutral 2023

Chad's Forum - 10 August 2022

Climate Change is the defining issue of our time and we are at a defining moment

- The United Nations declaration

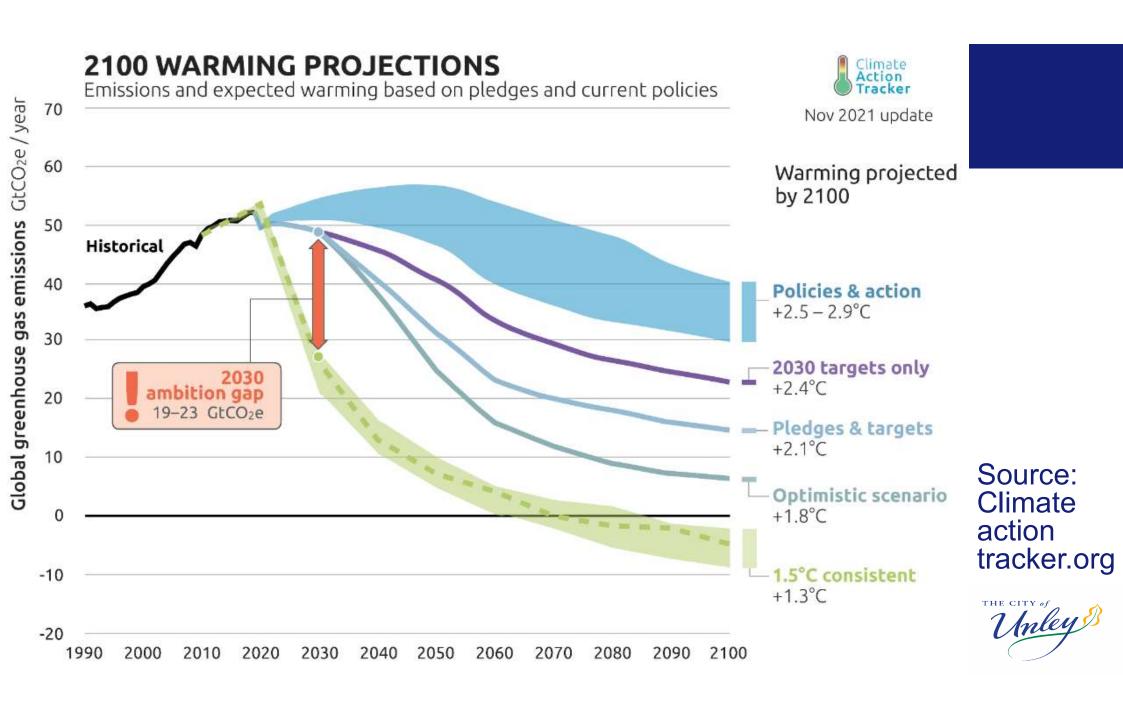


Overview

- Scale of Challenge
- Role of Council
- Developing the Plan
- Mitigation Actions halting the cause of climate change
- Adaptation Actions treating symptoms we can't reverse
- Working together







Unley Council's Approach:

- Structural long term
- Operational short term
- Collaboration ongoing
- Advocacy Government
- Education Community
- = Whole of Council Approach



Governance Risk Assessment

CLIMATE CHANGE ADAPTATION GOVERNANCE ASSESSMENT

Climate Change Adaptation Governance Assessment Report for the City of Unley



- 2021 Unley Council 1st out of 341 Councils assessed across Australia.
- Informed.City[™] climate change governance assessment.
- Council achieved a top score in Strategic Planning, Public Risk Disclosure, Asset Management and Greenhouse Gas Emissions Reduction.

As of May 2021, the City of Unley recorded a higher assessment score than 341 Australian councils to have been assessed through the Informed.City™ climate change governance assessment.



Reducing emissions

Mitigation is action to prevent greenhouse gas emissions releasing into the atmosphere to stop further changes to our climate.

Its about halting the cause.



Global Covenant of Mayors for Climate & Energy – Dec 2020





Developing Climate & Energy Plan

Technical Report

- Review science, policy and what others doing
- Carbon footprint analysis and recommended actions



Draft Plan

- 2030 Operational Carbon Neutral Target
- Emissions Reduction Pathway with 10 year action plan

Consult & Final

- Online, hard copy and drop-in sessions
- Accelerated to **December 2023 Operational Carbon Neutral Target**



- Project delivery underway
- Purchase offsets from December 2023
- Active reduction of emissions continue to June 2030 and beyond.



City of Union
DRAH Technical Reports
Climater and Energy Plan 2020-2050
Technical



Climate & Energy Plan

Our path to carbon neutral aperations by 2023





Carbon Footprint (corporate)

SCOPE	TOTAL TONNES CO2-E	SUBCATEGORY	TONNES CO2-E
Scope 1	526	Gas	183
		Petrol	73
		Diesel	270
Scope 2	1,193	Streetlights, paths & parks	445
		DIT Lighting	276
		Buildings	472
Scope 3	1,897	Travel	4
		Electricity embodied in water	85
		Diesel use in waste collection	128
		Council Waste	180
		Roads, paths & stormwater	1,500

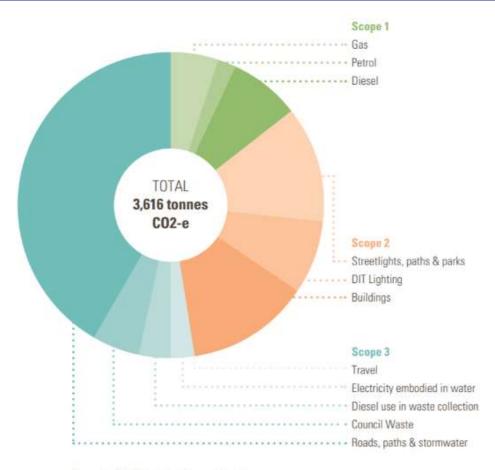
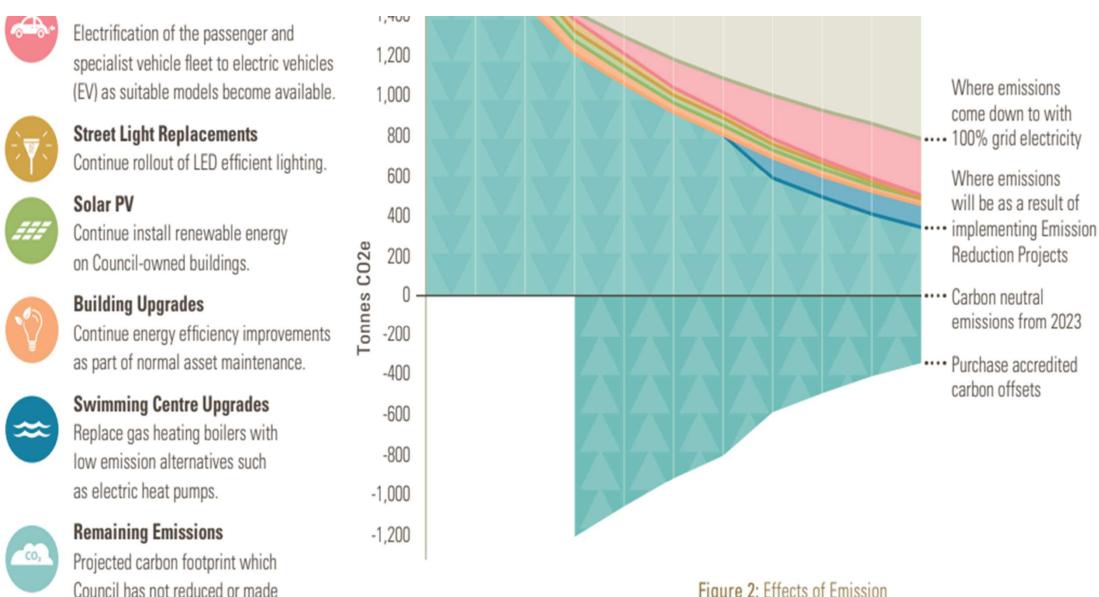
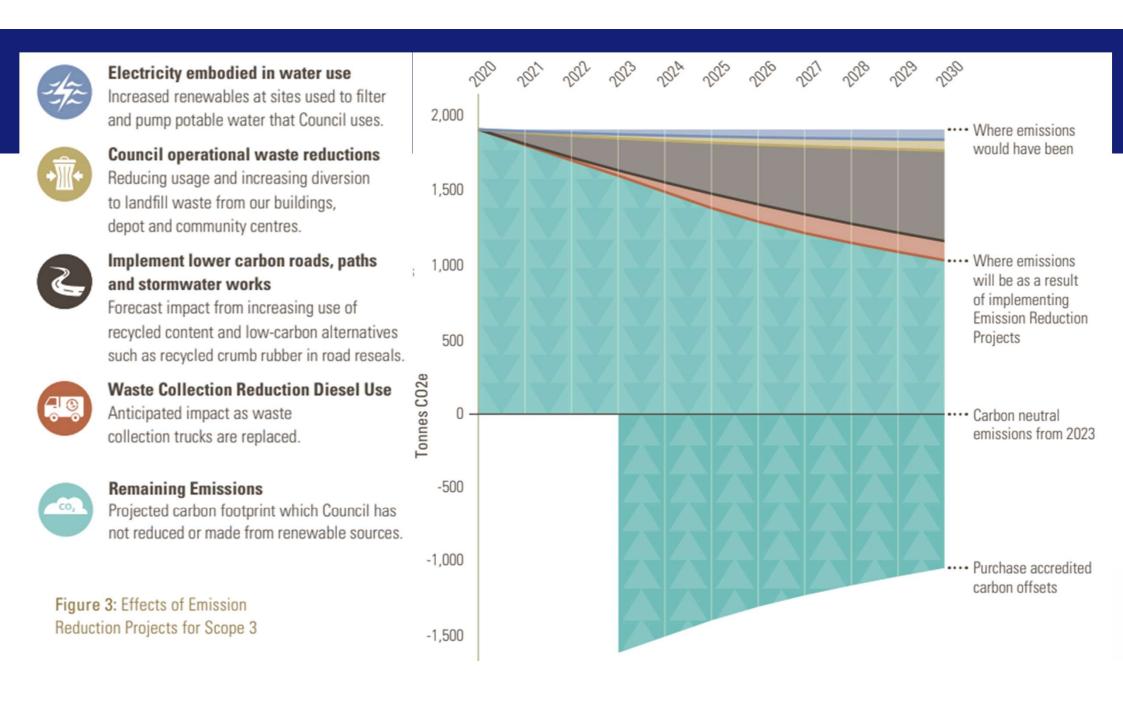


Figure 1: 2020 Estimate of Corporation of the City of Unley Emissions Scopes 1, 2 & 3



from renewable sources.

Figure 2: Effects of Emission Reduction Projects for Scope 1& 2



Offsets

From December 2023 purchase carbon offsets for the remaining emissions

Offsets could be investing in accredited and audited revegetation sites, renewable energy etc.

Continue actions to reduce emissions past 2023.



What are offsets

- Purchase the rights or certificates of activities that lower carbon emissions.
- Buyer is able to compensate for the emission of greenhouse gases by providing a reduction elsewhere



Local Carbon Offset Examples



- National searchable database
- Vegetation, landfill, agriculture, energy efficiency, facilities etc

Source: Clean Energy Regulator, Australian Government



Council's Emission Reduction Actions

- Energy
- Materials
- Waste
- Fleet
- Walking & Cycling



Mitigation - Energy

- 105kW Solar installed 2016-2021
- 2022 Climate Partners Fund for Leased Buildings
- 2023 Goodwood Community Centre
- Accelerated tree planting reduce A/C





Mitigation - Energy



- 3000 Street Lights LED (60% more efficient)
- Building energy efficiencies with any replacements





Mitigation - Materials & Services

- Recycled content in roads
- Design standards and phasing out gas
- Purchasing power and decisions

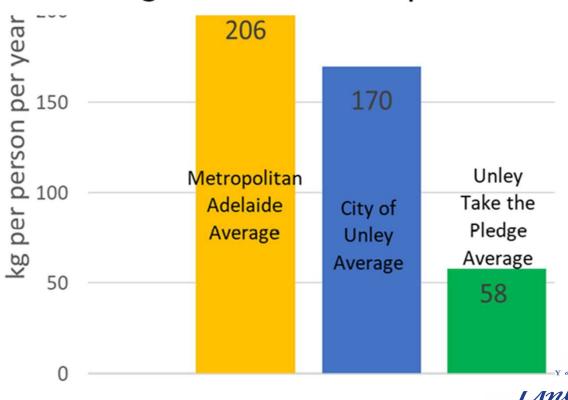




Mitigation – Waste

- Kitchen caddy roll out
- Zero Waste Events
- Weekly Organics trial
- Drinking Fountains
- Plastics Free SA
- East Waste

Waste generation comparison



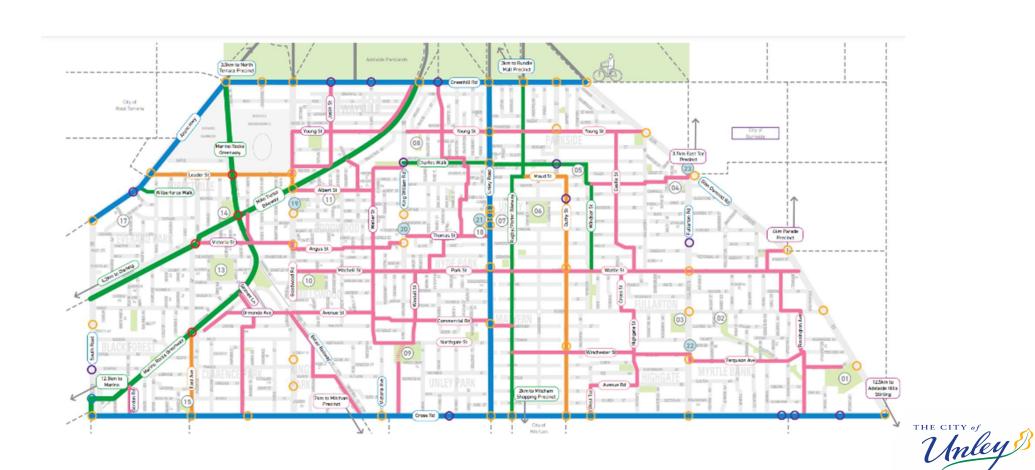
Mitigation - Fleet

- 5 Hybrid passenger vehicles
- Staff E-bikes with over 1,000km to date
- First electric vehicle coming soon for parking inspectors





Mitigation – Walking & Cycling



Building Resilience

Adaptation is action to prepare and respond to the impacts of climate change already locked in.

Its about treating the symptoms we can't reverse.



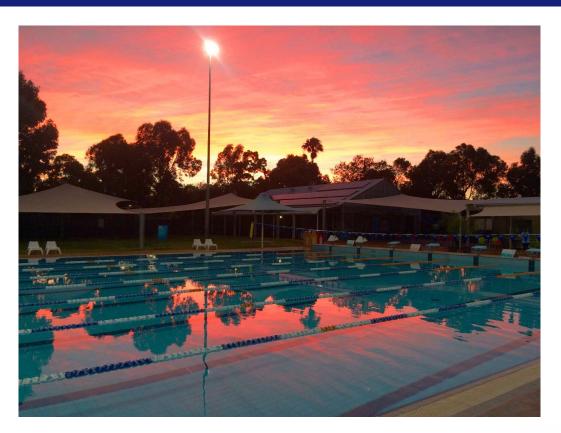
What is the Challenge





Examples of Unley Adaptation Actions

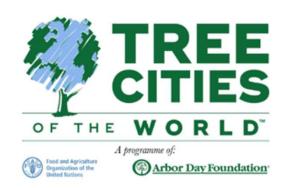
- Greening
- Biodiversity
- Water
- Preparedness
- Advocacy

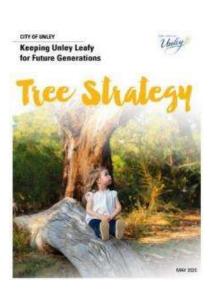




Adaption – Traditional Greening

- Tree Strategy
- 365+ Additional Trees for 2022-23
- Education & Engagement







Adaptation – Maximise Greening

Maximise planting
Greening Infrastructure Projects

- King William Road
- Living Streets
- Pocket Parks
- Linear Trails
- On street plantings



Adaptation - Greening

- Mapped canopy
- Detect change
- Planning, advocacy and track progress
- MyCanopy



Adaptation – Water Recycling

- >90ML/yr recycled across Ridge and Heywood Parks
- Glenelg Adelaide Pipeline
- Water wells
- Rain gardens
- Permeable paving
- Water Sensitive SA Members







Adaptation - Preparedness

- Flood impact reduction
- Power reliability











State Government Advocacy

- Beyond Council's jurisdiction we advocate for reforms around climate, waste management, active transport, urban greening etc.



Corporate vs Community Emissions

Climate & Energy Plan is for the things we can directly control (corporate emissions).

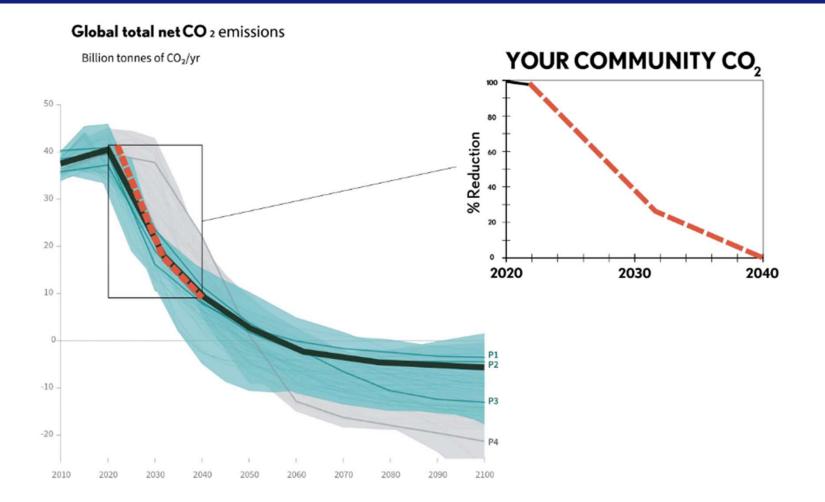
Corporate 3,616 tonnes CO2e

Community ~315,000 tonnes CO2e





Our Part in Global Emissions



Source: Saul Griffith, Rewiring Australia

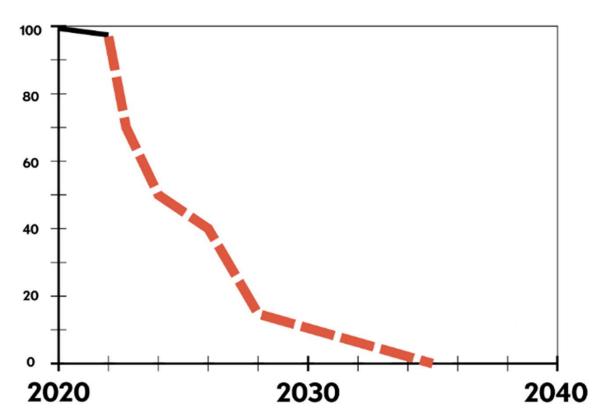


Your Household CO2

"A year ago, my family pledged net-zero 2025. We made a plan.

- Get solar now, financed to reduce up-front burden.
- Electrify the stove, the water, the heating in the next two years.
- Get a battery in 2024 when the prices have dropped.
- Get a car in 2025 when the choices are higher and there is more supply and more second hand.

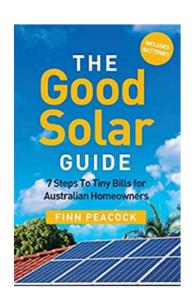
After that our banking and composting and eating well and consuming responsibly."



Source: Saul Griffith, Rewiring Australia



How to reduce energy & manage heat



Library Event on Electric Vehicles, solar and batteries



Home energy tool kits for loan



Heating/Cooling guides in community centres and libraries



How to reduce waste

- Reduce in first place
- Take the pledge
- Kitchen caddy & food waste
- Tricky items options at depot



How you can reduce petrol use



- Discover walking & cycling trails
- Public transport
- E-scooters



How you can help green

- Street tree
- Win \$80 Tree voucher
- Private Gardens
 - Greening Verges





2018 Canopy Coverage 28.55% 494.00m² 2021 Canopy Coverage 31.98% 553.19m² Change 3.42% + 59.19m²





Working together

unley.sa.gov.au/climate

- Links to personal emissions calculators
- Regardless of if you track your carbon footprint, lots of simple and effective actions you can take.
- Purchase power of individuals makes a difference
- Stay informed thankyou for coming tonight

