

City of Adelaide
21ADL-1194
20 June 2022

City of Adelaide - Climate Action Engagement Summary Report

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Lead consultant URPS
Suite 12/154 Fullarton Road (cnr Alexandra Ave)
Rose Park, SA 5067
(08) 8333 7999
urps.com.au

Prepared for City of Adelaide

Consultant Project Manager Nicole Halsey, Director
nhalsey@urps.com.au

URPS Ref 220620 R002_v4_CoA Engagement summary report

Document history and status

Revision	Date	Author	Reviewed	Details
V1	05.05.22	A Pannell, E Mansfield	N Halsey	Draft for client review
V2	25.05.22	A Pannell, E Mansfield	CoA staff	Final draft delivery
V3	08.06.22	A Pannell, E Mansfield	CoA staff	Final report
V4	20.06.22	A Pannell, E Mansfield	CoA staff	Final report

We acknowledge the Kaurna People as the Traditional Custodians of the land on which we work and pay respect to their Elders past, present and emerging.

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1. Introduction and purpose of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. This plan aims to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce Council and community emissions.

In 2021 the City of Adelaide engaged Point Advisory to undertake a technical analysis to model community emissions reduction pathways and identify community emissions reduction opportunities.

The City of Adelaide has worked collaboratively with URPS to deliver an engagement process to gather input to the new Climate Action Plan and to test support for the opportunities identified by Point Advisory. This engagement has been with key stakeholders and the broader community as well as internally with different teams within Council.

This report summarises the process undertaken and feedback gathered via a range of engagement activities undertaken from February to April 2022 in relation to climate action, and more specifically emissions reduction (refer Figure 1 for summary of engagement process and key themes).

This report focuses on the outcomes of engagement with community stakeholders and Council committees. Reporting on the outcomes of staff engagement is provided in Appendix B and Appendix C.

1.1 Engagement activities

The following engagement activities were undertaken:

1.1.1 Community and Council committee engagement

Facilitated by URPS, workshops were held with community stakeholders representing the following sectors/interests:

- Business
- Property
- Transport and active travel
- Youth.

Linking with external opportunities, members of the Low Carbon & Circular Economy team attended an Adelaide Sustainable Business Network event. In February 2022 a roundtable session with arts organisations was attended by the Lord Mayor, and included discussions about the arts can contribute to climate action.

A workshop was also held with Elected Members, Carbon Neutral Adelaide partners, Council's Access and Inclusion Advisory Panel and the Reconciliation Committee.

Online, a dedicated YourSay page provided information about the climate action planning process and encouraged input from the community on an ideas board. Community members could post comments and 'like' ideas posted on the ideas board.

Part way through the engagement process an online survey was undertaken to test and gather feedback on emerging and selected opportunities identified through staff and community engagement.

The focus of the engagement was on holding deep and detailed discussions with targeted stakeholders while also providing opportunity for those who are interested to provide input.

Across the community and Council committee engagement the following participation occurred:

Engagement activity	Participation
Community YourSay page	272 visitors 182 individuals contributed 101 ideas generated 1,534 likes 44 comments
Online community survey	44 responses
Community workshops/forums	11 workshops/forums held with 101 participants

Summaries of all community and Council committee workshops are provided in Appendix A.

1.1.2 Staff engagement

Seven workshops were held with council staff. A staff YourSay page was also hosted. A summary of staff engagement is provided in Appendix B.

1.2 Feedback themes

Feedback from engagement activities described above has been categorised into themes relating to the types of opportunities identified. This report has been arranged by the following themes:

- Moving towards an all-electric and resource efficient city
- Mobility and transport around the city
- Engaging with the community and business
- Greening the city and reducing the heat island effect
- Emission offsets.

1.3 Role of the City of Adelaide

The opportunities identified through the engagement have been evaluated based on Council's primary role in delivery, consistent with the roles identified by Point Advisory in the *Emissions reduction analysis report*¹:

Role	Description
Provider	Council delivers the services
Funder	Council funds other organisations to deliver services
Regulator	Council regulates some activities through legislation
Partner	Council forms partnerships and strategic alliances with other parties in the interests of the community.
Facilitator	Council facilitates others to be involved in activities by bringing groups and interested parties together
Advocate	Council promotes the interests of the community to other decision makers and influencers

An infographic summarising the engagement undertaken and key themes is provided on the following page.

¹ Point Advisory 2021, *Carbon Neutral Adelaide Emissions reduction analysis*, prepared for City of Adelaide, 9 August 2021

2022 Climate Action Engagement

 **11** community workshops
with **101** participants

 **7** staff workshops
with **89** participants

 **44** responses
to the community survey

 **182** community contributions
to the **Your Say Adelaide** discussion board →  **101** ideas
 **1,534** likes

173 opportunities for action were identified including...

15 for **electrification** of Council buildings and infrastructure

14 for supporting and engaging **businesses**

13 for encouraging **active transport**

3 for **electrifying** the Council fleet

16 for supporting community uptake of **EV's**

13 for **greening** of Council spaces

15 for community **education and awareness raising**

7 for **offsetting emissions**

6 for improving use of **public transport**

2. Community and Council committee feedback overview

The following section provides a summary of the key emission reduction opportunities for the City of Adelaide commonly identified through engagement with community stakeholders and Council committees. Each theme is described in more detail in the following sections.

2.1 Moving towards an all-electric and resource efficient city

Stationary energy (electricity and gas used in commercial, residential and manufacturing settings) accounted for 44% of the City of Adelaide's community greenhouse gas emissions in 2019/2020. Waste accounted for a further 9% of emissions. Community stakeholders and Council committees commonly identified a shift away from gas and non-renewable electricity towards electricity generated from renewable sources, particularly solar, as a key way to reduce emissions. Reducing waste to landfill and improving the energy efficiency of buildings and infrastructure through use of sustainable design were other commonly identified opportunities for becoming a resource efficient city.

2.2 Mobility and transport around the city

Transport accounted for 35% of the City of Adelaide's community greenhouse gas emissions in 2019/2020. This means improving the way council and the community travels around the city will be important to reducing emissions. Community stakeholders and Council committees commonly identified opportunities including increasing uptake of electric vehicles, encouraging use of public and active transport, reducing use of private vehicles and adjusting car parking supply to meet changing demands as ways to reduce transport related emissions.

2.3 Engaging with business and the community

It is recognised that engaging with businesses and community, including residents, workers and visitors, is central to achieving emission reduction targets. Community stakeholders and Council committees shared their views on the best ways to undertake this engagement, including awareness raising and education, support for community groups, and support for businesses through partnerships, funding and governance.

2.4 Greening the city and reducing the heat island effect

Urban heat islands occur when cities replace natural land cover with buildings, pavement, and other surfaces that absorb and retain heat. Greening the city and reducing the heat island effect has an indirect reduction in emissions by lowering city temperatures and associated electricity usage for cooling. Community stakeholders commonly identified opportunities including greening city spaces, streets and parklands and replacing dark, artificial surfaces with light, reflective surfaces or green infrastructure as ways to reduce emissions associated with the urban heat island effect.

2.5 Emission offsets

The use of carbon offsets helps the City of Adelaide to bring their carbon footprint down to zero as they work to eliminate their remaining emissions. Carbon offsets are generated through projects that reduce, remove or capture emissions such as reforestation and carbon capture and storage. Community stakeholders suggested that using local offsets and supporting businesses to buy or group-buy offsets of their own are key opportunities in this space.

3. Moving towards an all-electric and resource efficient city

Electrification and resource efficiency was one of the key themes for action raised in engagement with community stakeholders.

The following section describes opportunities identified by community stakeholders to reduce emissions associated with Council (corporate) and community energy and resource use.

At the community workshops, a number of new and ongoing actions undertaken by stakeholders were shared including:

- The Central Markets is reducing energy use and purchasing 100% renewable electricity. Traders have taken advantage of schemes to replace lighting with LEDs and improve energy consumption. In the next few years they plan to run a fit out program which will encourage traders to put in new, more efficient cool rooms and other improvements.
- House of Health in the Central Market have been plastic free for more than 10 years, ensure their deliveries are carbon neutral, and run their entire operation nearly carbon neutral.
- Human.Kind yoga has a 30kW solar system on the roof of its studio. All tenants in the building are on the same energy meter with sub meters, and they have an agreement with other tenants to share excess solar with other offices. They use LED lighting, have quality insulation and minimise upstream suppliers to reduce their carbon emissions.
- Duxton Pubs is setting a baseline for their food waste and carbon emissions and looking at ways to reduce both.
- The University of Adelaide has a campus sustainability plan and has invested in low carbon technology, renewables and engagement.
- Uniting Communities have also set a net zero target for 2035 and are continually advocating and presenting to others to encourage them to make similar net zero commitments. They are working to make U City a carbon neutral building and are already using shared solar.
- Terry White Chemist on Melbourne Street is a leader in recycling pharmaceutical blister packets from community members.
- New developments in the city are already on the path for full electrification such as 88 O'Connell and Market Arcade.
- Northern Edge Studio is focused on renewing, recycling and reusing buildings to reduce building demolition
- Tandem Energy is providing more mobile and stationary renewable energy storage capacity.
- Dsquared are carbon neutral certified and use 100% renewable suppliers.
- Packwise packaging work with businesses to transition them to 100% compostable packaging.
- Enpro Envirotech are providing several low carbon solutions including Rapid Thermophilic food composting to divert food waste from landfill, thermorefective coating to reduce energy bills by 20-40%, and centralised waste to bioenergy systems

- Orbel help to transition companies away from servers to cloud solutions for computer systems and phone systems to reduce energy use, transport for meetings, hardware requirements and paper use

3.1 Opportunities for action – electrification of Council operations and resource efficiency

Community stakeholders identified numerous opportunities to reduce Council's operational emissions through electrification and resource use efficiency described in Table 1. Where these were also identified during staff discussions, this is also noted.

Table 1 Opportunities to reduce council emissions through electrification and resource efficiency

Opportunity	Identified by
Policy, planning and design	
Consider whole of life embodied carbon assessments as well as whole of life costs in council projects and procurement	ASBN, staff
Council buildings and infrastructure	
Electrifying council's buildings that still use gas, for example the Aquatic Centre, Market Square and ensure all new builds are fully electric and climate smart with higher thermal performance than construction code minimums	Community, staff
Progress the proposal to change the 30% of the City of Adelaide's public lighting owned by SA Power Networks to LED	Community, staff
Energy generation and storage	
Improve the renewable energy storage capacity of council buildings through installation of batteries and stationary and mobile storage	CNA partners
Waste	
Improve waste services through the city and parklands, including green waste and recycling collection	Community, staff

3.2 Opportunities for action – community electrification and resource efficiency

During the community workshops and through the online community engagement, a range of opportunities for actions to reduce community emissions through electrification and resource use efficiency were identified. These ideas have been collated and summarised in Table 2. The potential role of Council in each opportunity is also identified. Where these were also identified during staff discussions, this is also noted.

The ideas from the online discussion board are included in Table 2, with a summary of the support for these ideas and comments described below.

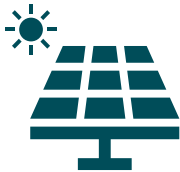

	<p>6 ideas and comments about electrification and replacing gas with solar were posted to the online discussion board.</p> <p>These ideas received 59 likes</p>		<p>3 ideas and comments about waste management were posted to the online discussion board.</p> <p>These ideas received 28 likes</p>
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Table 2 Opportunities to reduce community emissions through electrification and resource efficiency

Opportunity	Identified or support by	Potential role of Council
Energy efficiency		
Retrofit buildings to increase energy efficiency and provide rebates or grants for retrofit projects	Property stakeholders, ASBN, CNA partners, community	Funder, facilitator, advocate
Reduce energy consumption of new buildings through smart design, smart systems and technologies with high efficiency and productivity, renewable energy procurement and alternative, recyclable materials	Property stakeholders, ASBN, CNA partners	Regulator, advocate, facilitator
Continue to support businesses undertake upgrades to improve energy efficiency through BUF (also relevant for renewable generation and waste management) and improve BUF with additional incentives and simplified administration	Property stakeholders	Partner
Providing a finance mechanism such as BUF or CORENA to help community groups to afford the up-front costs of sustainable design (also relevant for generation)	Property stakeholders, staff	Partner
Help strata communities and disabled renters access the Sustainability Incentives Scheme (SIS)	Access and Inclusion Panel, staff	Facilitator, funder
Renewable energy generation and storage		
Facilitate shared purchase agreements for renewable electricity	Property stakeholders, business, Elected Members	Facilitator
Generate renewable energy during the day and export to the market at night, using solar, batteries or electric vehicles to store the energy and manage high energy loads	Property stakeholders, CNA partners	Funder, facilitator, advocate
Increase use of community solar, solar gardens, etc.	Community	Facilitator, funder
Support shared solar for apartments and office buildings	Property stakeholders, staff	Funder, facilitator
Connecting businesses to the retail energy productivity scheme (REPS) and other renewable energy programs, grants and advisory services	Business stakeholders	Facilitator
Provide information for business, organisations and households to understand available programs and support in relation to renewable energy options and support programs	Business stakeholders, ASBN, community	Provider
Partner with Business SA to run a “net zero emissions” business program in the city	Property stakeholders	Partner
Ensure grid stabilisation	Property stakeholders	Advocate

Opportunity	Identified or support by	Potential role of Council
Buildings and infrastructure		
Advocate for reducing strata fees where sustainable design reduces ongoing costs	Property stakeholders	Advocate
Advocate for Planning and Design Code amendments to support low carbon buildings and urban design	ASBN, staff	Advocate
Electrify everything to phase out gas, and do not include gas in new developments	Property stakeholders, ASBN, CNA partners, Elected Members, community	Advocate, regulator
Improve the ability of young renters to make green choices	Youth forum	Advocate
Promote the use of locally sourced materials	ASBN, staff	Advocate, facilitator
Waste		
Improve separation of organic waste to reduce waste to landfill	Business stakeholders, young people, community	Provider
Support waste separation in apartment buildings	Business stakeholders	Facilitator, advocate
Provide recycling facilities for particular waste streams such as blister packs and soft plastics, by partnering with private companies such as TerraCycle or RedCycle or promoting bins systems such as BinShift	Business stakeholders, community	Provider, partner
Facilitate collection of waste from multiple businesses to create economies of scale (eg food waste from adjacent hospitality venues)	Business stakeholders, young people	Facilitator
Promote compostable packaging	Business stakeholders	Advocate

3.3 Barriers to action

During the community workshops, participants were asked to identify barriers to progressing the opportunities identified in relation to electrification and resource use efficiency. These barriers are summarised below.

- Finance is a major barrier, and environmentally sustainable design is often the first feature to get cut. The pressures on the building industry have raised the costs of building, further disincentivising clubs to spend more upfront for sustainability upgrades despite long term savings.
- People are still buying the cheapest option rather than the most sustainable one.
- Planning and Design Code low carbon policies are not mandated or well-regarded by developers.
- Consumers who do want to purchase sustainable products need to look carefully at product credentials to ensure they are not just green washed.
- Young people have little decision-making power - many young people are renting or still living at home and do not have complete control over their lifestyle choices. Examples included rentals including bills in rent prices which disincentives minimising electricity, gas and water use, renters not having the ability to install solar panels or choose renewable power

3.4 Knowledge gaps

No knowledge gaps relating to electric and resource efficient cities were raised by community stakeholders.

3.5 Climate action survey responses

Through the online survey, respondents were asked about some of the opportunities for action raised through the earlier stages of engagement (refer Table 2).

Apartment building residents were asked if they had solar panels on their building. 3 out of 12 apartments residents reported solar on their building, but none indicated this was a shared solar system. Apartment residents were asked about their likelihood to investigate share solar through their strata committee. The responses are shown in Figure 1.

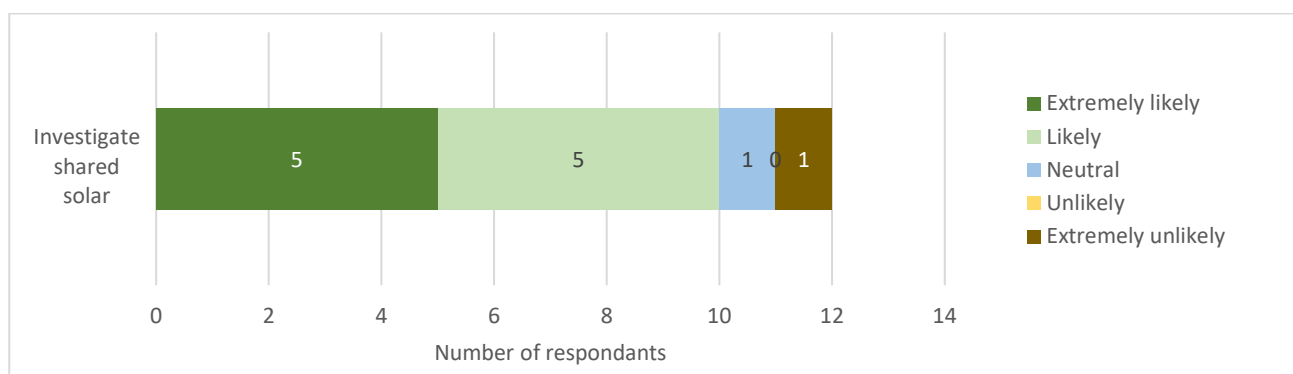


Figure 1 Likelihood of apartment residents investigating shared solar

Apartment residents were also asked what might make their strata committee more likely to investigate or install shared solar. 7 comments were received relating to:

- Better information and understanding of costs and benefits, and
- Availability of subsidies.

Business owners were asked about their likelihood to investigate or undertake a number of actions relating to electrification and resource efficiency. The responses are shown in Figure 2.

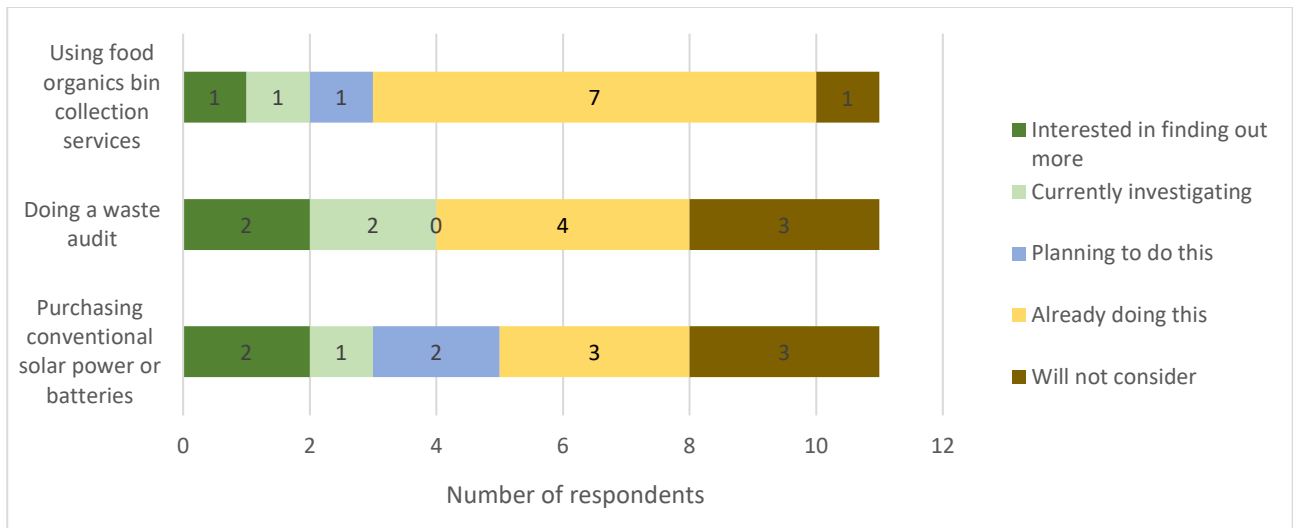


Figure 2 Likelihood of business owners to investigate implement action

Businesses were also asked about their likelihood to investigate a renewable group buy agreement. Two out of 11 respondents indicated they were likely or very likely and four were unlikely or very unlikely.

14 survey respondents that worked in or owned a multi-tenanted commercial building were asked about their likelihood to investigate shared solar through their building management or owner. The results are shown in Figure 3.

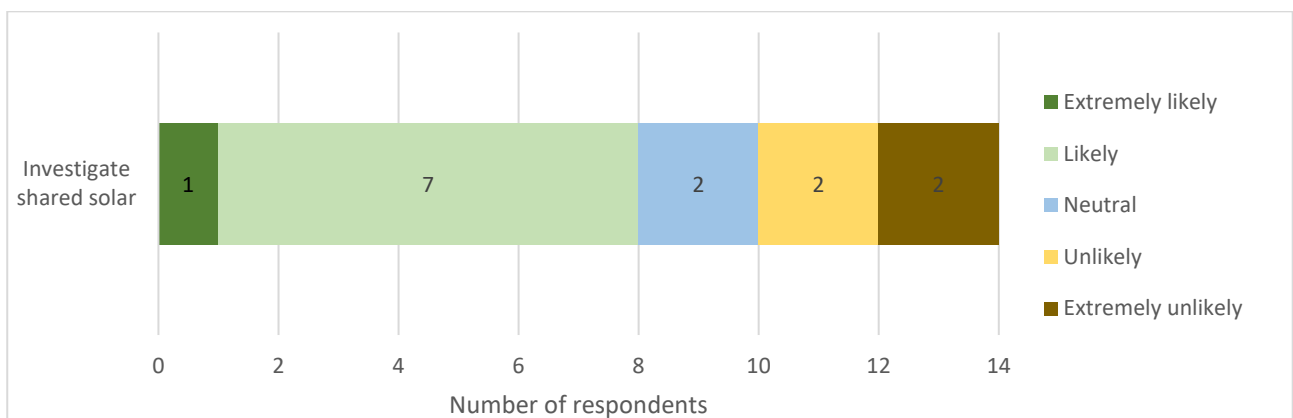


Figure 3 Likelihood of investigating shared solar

Ideas to make building managers/owners more likely to investigate or install shared solar included:

- Providing greater incentives, eg rates cuts, tax incentives, subsidies
- Information on costs and benefits
- More pressure from building tenants.

4. Mobility and transport around the city

Mobility and transport was one of the key themes for action raised in engagement with community stakeholders.

The following section describes opportunities identified through the community engagement to reduce emissions associated with Council (corporate) and community transport and mobility.

At the community workshops, a number of new and ongoing actions undertaken by stakeholders were shared including:

- RAA to roll out South Australia's first State-wide electric vehicle charging network, including 10 additional chargers in the city
- Provision of eco-friendly bike and rickshaw tours by Eco-caddy that provide alternatives to car use to travel around the city
- Competitive offers for EV charging at U-Park
- Interest in bringing Formula E to Adelaide with an associated festival of e-motion to promote Adelaide as a city of clean energy
- SA Water EV policy being implemented.

4.1 Opportunities for action – Council transport and mobility

Community stakeholders identified one opportunity to reduce Council's operational emissions associated with transport and mobility (refer Table 3).

Table 3 Opportunities to reduce emissions associated with council transport and mobility

Opportunity	Identified by
Set a target for electrification of the Council fleet	Young people, staff
Investigate the potential for council to enter into a group renewable energy supply agreement with other councils or the LGA, to help council and other local government partners secure renewable electricity for a lower cost	Elected Members
Encouraging a variety of technologies that can deliver electricity or other forms of energy to support an all-electric city transition	Elected Members

4.2 Opportunities for action – community transport and mobility

During the community workshops and through the online community engagement, a range of opportunities for actions to reduce community emissions associated with transport and mobility were identified. These ideas have been collated and summarised in Table 4. The potential role of Council in each opportunity was also identified (refer section 1.3). Where these were also identified during staff discussions, this is also noted.

The ideas from the online discussion board are included in Table 4, with a summary of the support for these ideas and comments described below.





 <p>16 ideas and comments about improving cycling infrastructure were posted to the online discussion board</p> <p>These ideas received 461 likes</p>	 <p>10 ideas and comments about public transport were posted to the online discussion board</p> <p>These ideas received 149 likes</p>
 <p>4 ideas and comments about electric vehicles were posted to the online discussion board</p> <p>These ideas received 43 likes</p>	 <p>8 ideas and comments about reducing cars in the city were posted to the online discussion board</p> <p>These ideas received 140 likes</p>

Table 4 Opportunities to reduce emissions associated with Council transport and mobility

Opportunity	Identified or support by	Role of Council
Electric vehicles		
Providing more EV charging services across the City, at UParks and including bi-directional chargers, fast charge stations and charging for scooters and bikes	Transport stakeholders, community, staff	Provider, partner, funder
Providing free charging at city festivals, events and at the Central Markets	Transport stakeholders	Provider
Trial vehicle to grid chargers	Community	Partner
Roll out the state-wide electric vehicle charging station network (RAA)	CNA partners	Advocate
Engage with the Department of Treasury and Finance to encourage them to reduce or abolish stamp duty for electric vehicles and hybrid vehicles	Elected Members	Advocate
Working with partners to increase coverage of on-street and off-street (on private land) charging	Transport stakeholders, community, staff	Partner, facilitator
Investigate low emission zones where high emission vehicles are restricted	Community, staff	Provider
Reduce speed limits to combat electric vehicle safety concerns	Access and inclusion panel	Regulator
Provide rebates for e-bike purchases by residents	Transport stakeholders	Funder
Electrify other forms of transport (buses, trams, rail)	Transport stakeholders, community	Advocate
Car parking		
Transition UParks to service electric vehicles, including implementing demand management measures for both permanent and casual parkers	Transport stakeholders, staff	Provider
Ensure provision of EV charging spaces does not occur at expense of disabled parking spaces	Access and inclusion panel	Provider
Repurpose carparks into other uses, eg apartments	Transport stakeholders	Partner, facilitator
Introduce a car parking levy as carparking is currently the “largest untaxed resource in the city”	Transport stakeholders	Regulator
Provide park and ride on city fringe to encourage active or public transport for last leg	Community	Advocate
Encouraging car sharing programs	Transport stakeholders, staff	Facilitator

Opportunity	Identified or support by	Role of Council
Review on street parking time restrictions to avoid perverse outcomes (eg Requirement for CoA residents with parking permits to move cars, which encourages short car commutes)	Transport stakeholders	Provider
Prioritise on-street parks for loading zones, taxi/ride share zones and electric vehicle charging	Transport stakeholders	Provider
Provide incentives for electric vehicles to come into the city and park at zero or reduced fees or in dedicated parking zones	Elected Members, planning staff	Provider, partner
Review carpark demand and supply considering scenarios to increase alternate options, meeting peak demand and impact of EVs on demand, current demand for charging parks and energy demand, future impact of alternative transport	Elected Members, transport staff, planning staff	Provider
Public transport		
Advocating for more sustainable public transport, including increasing use of 'on demand' public transport, reducing off peak public transport, and transitioning to smaller, quieter, electric buses	Community, staff, Elected Members	Advocate
Provide free public transport	Community	Funder, advocate
Provide bike racks on City Connector buses	Community	Partner
Active transport		
Changing street layouts to prioritise active/public transport, trial temporary parklets and bike lanes, reallocate space for active travel, provide more dedicated bike lanes convert on street parking for bike/e-bike/scooter lanes and footpaths reduce car lanes turn laneways into car-free malls review outdoor dining on narrow footpaths	Transport stakeholders, young people, community, staff	Provider, regulator
Increase cycle paths that link across the city and to the suburbs, including completing the east-west cycleway and creating more north-south and east-west cycleways	Business stakeholders, young people, community	Provider, partner
Improve lighting for bike lanes	Young people	Provider
Provide more safe bike racks	Young people, community	Provider

Opportunity	Identified or support by	Role of Council
Create a green, hospitable and shady environment with stop lights that are shaded, shaded bus stops	Transport stakeholders, young people	Provider
Reducing private vehicle use		
Introduce a car-free day	Community	Partner
Promote short-term car hire and ride sharing	Community, staff	Facilitator
Introduce sustainable transport policy that encourages idea development, leads to business outcomes, and creates a suitable environment for others to invest, trial and test.	Transport stakeholders	Provider
Using community feedback regarding transport as a priority, as they are the actual daily users of our transport systems	Elected Members	Provider
Education and awareness raising		
Support bike festivals, popups and other events to promote cycling.	Transport stakeholders	Partner
Educate electric vehicle drivers to be more aware of the issues faced by people with disabilities, including signage in carparks and information printed on the back of parking tickets	Access and inclusion panel	Provider, partner

4.3 Barriers to action

During the community workshops, participants raised the following barriers to progressing the mobility and transport opportunities:

- Restricted supply of electric vehicles which limits uptake and results in a lack of second-hand vehicles
- Regulatory frameworks and laws in relation to private personal mobility devices such as e-scooters

4.4 Knowledge gaps

While Census data provides four-yearly insights on travel modes to work, community stakeholders identified an opportunity for more fine-grained understanding of behaviours and trends.

4.5 Climate action survey responses

Through the online survey, respondents were asked about some of the opportunities for action raised through the earlier stages of engagement (refer Table 4). Questions about transport related to both businesses and households.

Business owners were asked about the likelihood of purchasing electric vehicles for their fleet or providing incentives or facilities for staff and clients to use active transport in the next 1-5 years. Survey responses are shown in Figure 4.

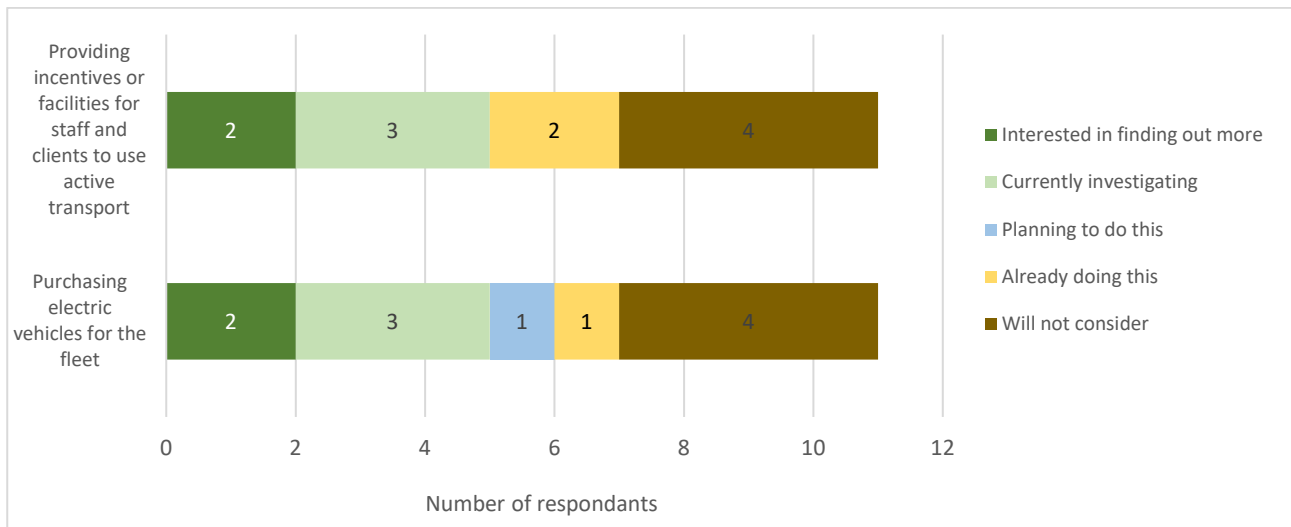


Figure 4 Likelihood of business owners' electric fleet vehicle purchase

Other opportunities being considered or undertaken by business owners to reduce transport emissions include:

- Investigate the removal of R134A [refrigerant] from imported motor vehicles
- Running vehicles on solar compressed air

- Reducing travel requirements by promoting online meetings.

Respondents were asked about the likelihood of purchasing an electric car (for personal use) or an electric bicycle in the next 1-5 years. Survey responses are shown in Figure 5.

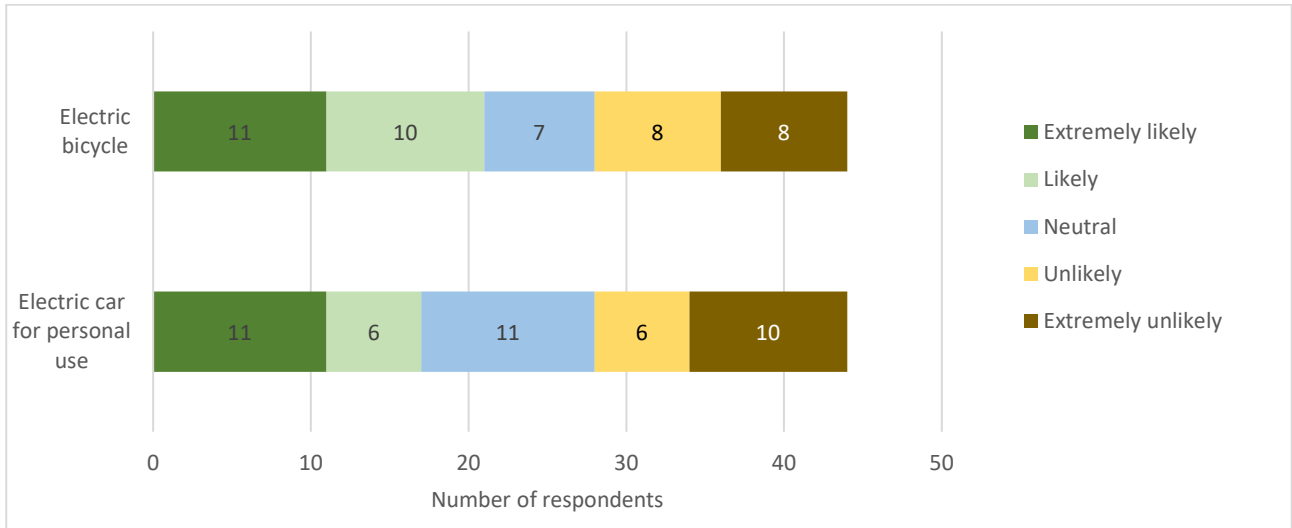


Figure 5 Likelihood of electric car or bicycle purchase

Respondents were also asked how likely they or their business would be to use a shared electric vehicle service. Nearly 50% of respondents indicated they were likely or extremely likely to use such a service (refer Figure 6).

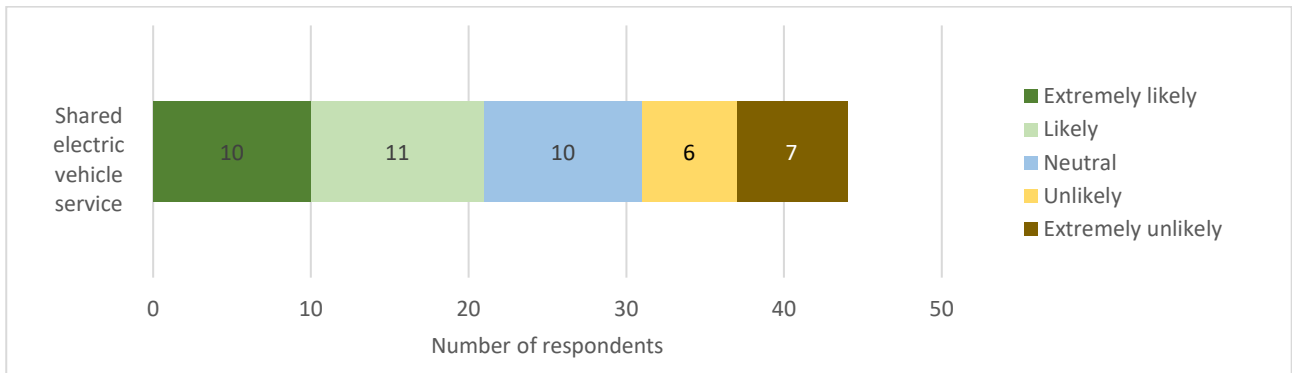


Figure 6 Likelihood of shared electric vehicle service use

One survey respondent identified an additional transport opportunity (not previously identified) regarding removing refrigerants from city resident’s cars. Other feedback received through the survey relating to transport and mobility reiterated many of the opportunities previously identified by the engagement including:

- Progress and promote bike ways and better public transport
- Provide free and efficient public transport
- Install more EV charging stations including for e-bikes and e-scooters
- Penalise vehicles that are not charging in EV charger parking spaces
- Lack of EV charging in apartment buildings
- Penalise or ban use of internal combustion engines in the city
- Increase shade on bike routes.

5. Engaging with business and the community

Engaging with business and the community was one of the key themes for action raised in engagement with community stakeholders. This theme is about providing support and engagement that aims to raise awareness, knowledge and skills that enable the community to take action that leads to emissions reduction.

The City of Adelaide's community is defined for this report as including the people who live, work and visit the city and the businesses that operate there.

At the community workshops, a number of new and ongoing actions undertaken by stakeholders were shared including:

- St Mary's college is engaging with students about climate change and emission reductions
- The Central Markets are working to bring customers on the climate action journey through Sustainable September to raise awareness on making simple lifestyle changes to reduce their emissions
- Human.Kind use stories and learnings to educate the people who come to the studio
- Business SA are running a pilot course for businesses to get to net zero
- Stone and Chalk are investigating how to support start-ups to do small carbon assessments and become carbon neutral.

5.1 Opportunities for support and engagement

Community stakeholders identified a number of opportunities to support emissions reduction with the City of Adelaide's residents, businesses and visitors, described in Table 5. Where these were also identified during staff discussions, this is also noted.

Table 5 Opportunities to support resident, business and visitor emission reduction

Opportunity	Identified or support by	Role of Council
Awareness raising and education		
Share information with the community about lifestyle changes they can make to reduce their emissions	Young people, Reconciliation Committee, culture and environment stakeholders	Provider, facilitator, advocate
Share podcasts, news, audiobooks, books and videos with the community to help them educate themselves about what actions can be taken to combat climate change	Young people	Facilitator
Establish a Council climate action social media page	Young people	Provider
Send climate change information to schools	Young people	Provider, facilitator
Provide easily accessible information to help businesses to know where to start and what to do to reduce their emissions	Property stakeholders, CNA partners	Provider, facilitator
Promote climate initiatives in local sectors with other businesses to facilitate learning from past successes	Community, staff	Provider
Promote SIS and other emission reduction opportunities to landlords and property owners	Community	Provider
Host workshops and events at libraries and community centres, including targeted sessions as part of the migrant induction process	Community, staff	Provider, partner
Collaborate with university climate change clubs to run workshops or other events for students	Young people	Partner
Work towards making youth feel more empowered about their own choices	Elected Members	Advocate
Use arts as a medium and network to communicate about environmental sustainability	Culture and environment stakeholders	Facilitator
Prioritise slow, deeper engagement, grassroots progress and approaching each other with patience and the room to explore concepts, complexities, and contradictions without judgement	Culture and environment stakeholders	Provider, partner
Incorporate First Nations principles into emission reduction strategies	Culture and environment stakeholders	Provider, partner
Supporting community groups		
Host a regular council youth climate action forum and set up a Youth Advisory Committee	Young people	Provider

Opportunity	Identified or support by	Role of Council
Share opportunities to get involved in groups such as Australian Youth Climate Coalition (AYCC), the SA Student Representative Council (SRC) and youth forums, particular through social media	Young people	Facilitator, advocate
Share opportunities to attend conventions, school strikes and other events that amplify citizen voices	Young people	Advocate
Supporting and collaborating with business		
Work together with businesses on events such as those held at the Central Markets to raise mass awareness and help people get on the climate action journey.	Business stakeholders,	Partner
Collaborate on projects with other groups such as the Climate Action Sustainability Taskforce, Committee for Adelaide, other councils etc.	CNA partners	Partner
Using the Carbon Neutral Adelaide initiative as an opportunity for partnership with businesses, a promotion opportunity and a selling point against other cities	CNA partners, staff	Advocate, facilitate
Investigate opportunities to link Carbon Neutral Adelaide Program to the federal government Climate Active program which involves a carbon neutrality certification scheme to further incentivise involvement	Property stakeholders	Partner
Host a focus group for partners that have committed to net zero or carbon neutrality that is more project based rather than broad ambitions	CNA partners	Facilitator
Increase the availability of grants for businesses in Council buildings such as the Central Markets	Business stakeholders	Provider
Reform the grant-funding process to be more cost effective for independent self-producing artist	Culture and environment stakeholders	Provider
Provide grants, incentives and other funding support to businesses looking to reduce their emissions	Business stakeholders	Provider
Provide governance and political direction so that businesses can work together to align with what is happening locally	Property stakeholders	Provider
Support businesses to adopt sustainable procurement practises	Property stakeholders	Facilitator
Encourage major consumers and corporates to also take action	Elected Members, culture and environment stakeholders	Advocate

Opportunity	Identified or support by	Role of Council
Embed event licenses/direction with considerations from First Nations First perspective and considerations for the climate crisis.	Culture and environment stakeholders	Facilitator
Create a central online portal for businesses to share their sustainability action plans	Culture and environment stakeholders	Facilitator

5.2 Barriers to action

During the community workshops, participants were asked to identify barriers to progressing the engagement opportunities identified. Barriers to community action are summarised below:

- Uncertainty around future technology and price changes, incentives and terms of lease prevents strong climate action
- Money and commitments are not being mobilised at higher levels of government and in big organisations
- Climate denial can lead to climate despair and this needs to be avoided
- Many Australians feel that climate change is not an issue for the present, that it is not their responsibility, or that it is an issue too big and overwhelming to take action on
- People tend to focus on short term benefits and struggle to think in the context of longer timeframes

5.3 Climate action survey responses

Through the survey, respondents were asked about some of the opportunities for action raised through the earlier stages of engagement.

A number of opportunities for Council to support community-led climate action were identified through the earlier stages of engagement and survey respondents were asked which they thought would be most effective (multiple responses possible).

Developing a directory of organisations or people who could help was the most commonly selected response with 31 of 44 respondents (70%) (see Figure 7).

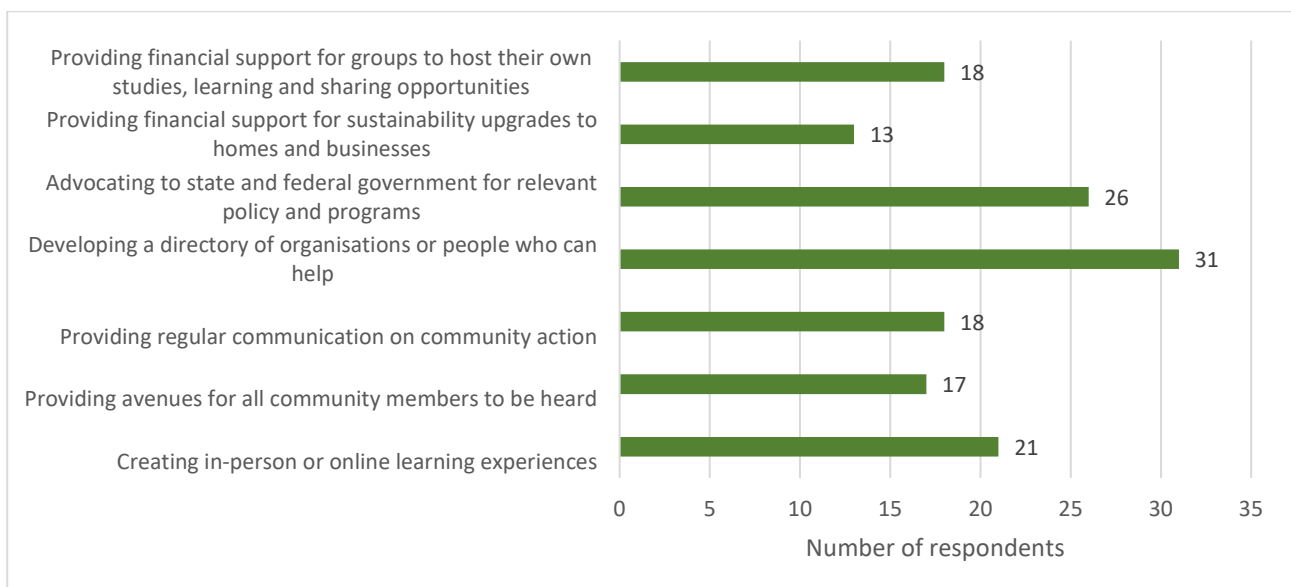


Figure 7 Support for council action to support community action

6. Greening the city and reducing the heat island effect

Greening the city and reducing the heat island effect was one of the key themes for action raised in engagement with community stakeholders.

The following section describes opportunities identified through the engagement to reduce emissions associated with Council (corporate) and community greening.

The Reconciliation Committee notes that healing country would help heal the climate, and greening could be considered one way to heal country.

6.1 Opportunities for action – Council greening and cooling

Community stakeholders identified a number of opportunities for greening and cooling by

Council. **Table 6 Opportunities for Council greening and cooling to reduce emissions**

Opportunity	Identified by
Reducing bitumen areas and converting underutilised roads and car parks into green space	Community
Using high emissivity roof paint	Community
Preserving existing parklands and regenerating and revegetating where possible	Community, CNA partners
Increasing green infrastructure	Property stakeholders
Increasing tree canopy and planting cover, including on streets and council verges	CNA partners, community
Incorporating biodiversity sensitive and water sensitive urban design principles at every opportunity	Community
Providing a commitment from Council Elected Members to tangible action on ecosystem health	Young people
Advocating to State Government to increase protection of trees, especially significant trees, from development	Community

6.2 Opportunities for action – community (private) greening

A range of opportunities for actions for greening and cooling were identified by the community. These ideas are summarised in Table 7. The potential role of Council in each opportunity is identified.

The ideas from the online discussion board are included in Table 7 with a summary of the support for these ideas and comments described below.

Table 7 Opportunities to reduce emissions associated with community (private) greening

Opportunity	Identified or support by	Role of Council
Subsidising white paint	Community	Funder
Supporting landlords to install green walls/roof gardens	Community	Funder
Making the process to apply for a street tree to be planted in a residential verge easier	Community	Provider

6.3 Barriers to action and knowledge gaps

No barriers or knowledge gaps were identified for greening and cooling.

6.4 Climate action survey responses

No questions in the survey related specifically to greening the city.

Survey respondents identified the following opportunities for greening and cooling action:

- Changing tree laws to stop indiscriminate removal of trees, especially old growth trees, to increase tree canopy in the city and to protect parklands instead of favouring development
- Provide more shade through tree cover on bike routes and in streets.

7. Emission offsets

Offsetting residual emissions to reach net zero was a key theme raised in engagement with community stakeholders.

The (avoidance of) acquisition of overseas offsets was raised during a number of community discussions.

At the community workshops, some ongoing actions by stakeholders were identified including:

- SA Water maintains biodiverse sequestration projects to generate Australian Carbon Credit Units (ACCUs) to offset its emissions.
- WOMAD has done carbon offset planting in Kangaroo Island.

7.1 Opportunities for action

Community stakeholders identified three opportunities associated with council offsets described in Table 8. Where these were also identified during staff discussions, this is also noted.

Table 8 Opportunities for council offsets

Opportunity	Identified by
Supporting carbon offset projects	CNA partners, staff, Reconciliation Committee
Investigating generation of our own local carbon credits	Business stakeholders, property stakeholders, community, Elected Members
Investigating the potential for blue carbon	Reconciliation Committee

Three opportunities were also identified relating to community offsets, described in Table 9.

Table 9 Opportunities for community offsets

Opportunity	Identified by	Role of Council
Businesses buying collective carbon offsets and sharing bulk-buy opportunities.	Business stakeholders, property stakeholders, CNA partners, staff	Facilitator
Establishing or facilitating a local carbon offset scheme	Business stakeholders	Provider, facilitator, partner
Businesses could pay Council to offset their carbon emissions and the Council could use this money to fund greening projects	Business stakeholders	Partner

Appendix A – Community and Council committee workshop summaries

Climate Action Planning Engagement

Business Workshop
Thursday 10 March 2022

Attendees:

- Duxton Capital Australia
- North Adelaide Precinct Association
- Grote Business Precinct
- Central Market Authority
- Manager energy services, Department for Mining and Energy
- HumanKind Yoga
- Green Industries SA

Venue: Zoom

Summary of discussion

Where should action now be focused in relation to the business sector?

Waste was identified as a big opportunity for the business sector. In particular, improving separation of organic waste, reducing emissions from waste and waste collection, collecting waste with other businesses to create economies of scale, and moving towards compostable packaging with associated education programs were highlighted.

Renewable energy was identified as another focus area for businesses. Connecting businesses to the retail energy productivity scheme (REPS) and other programs, grants and advisory services was seen as a significant opportunity. Establishing shared purchase agreements for renewable electricity to increase affordability and visibility for businesses was also raised.

Participants identified that there is interest in the business sector to buy collective, local carbon offsets and share bulk-buy opportunities. It was shared that several northern councils are looking into carbon farming and blue carbon opportunities.

Reducing scope 3 emissions in the business sector was also identified as a focus for action.

What climate action is already being undertaken that others could leverage or learn from in relation to the business sector?

- Duxton Capital Australia is currently undertaking a net zero pathway project with GISA to understand their emissions profile. They have also looked into their vineyards where stationary energy is highest, and are doing a commercial feasibility assessment into using food waste for chicken and piggery feed. They are happy to share their results with other hospitality businesses.
- The Grote Business Precinct Association have Conservation SA and the Joinery as members and a subcommittee focused on eco-projects.
- In 2019, the Central Markets installed a bio-separator for organic waste, paper waste and other waste. As a result, their waste separation is very good, achieving >97% waste diversion. The Central Markets send their food waste to charities and have a Plastic Free Champions program which has reduced trader's use of plastic, helped along by recent changes to waste legislation.
- The Central Markets are also reducing their energy use. Its electricity is provided through the City of Adelaide contract making it 100% renewable. Traders have taken advantage of schemes to replace lighting with LEDs and improve energy consumption. In the next few years they plan to run a fit out program which will encourage traders to put in new, more efficient cool rooms and other improvements.
- EV chargers have been installed in the Central Market Upark.
- The Central Markets are also working to bring customers on the climate action journey through Sustainable September to raise awareness on making simple switches to their lifestyles.
- House of Health, located in the Central Market, are leaders in the sustainability space. They sell food in bulk, have been plastic free for more than 10 years, encourage customers to bring their own containers, use compostable bags, ensure their deliveries are carbon neutral, and run their entire operation nearly carbon neutral which provides a great example to other traders.
- St Mary's college is doing good work on engaging with students about climate change and emissions reduction.

- Human.Kind yoga has a 30kW solar system on the roof of its studio. All tenants in the building are on the same energy meter with sub meters, and they have an agreement with other tenants to share excess solar with other offices. They use LED lighting, have quality insulation and minimise upstream suppliers to reduce their carbon emissions.
- Human.Kind yoga separate its waste, throwing out approximately one shopping bag of waste per week and are moving towards compostable packaging.
- Human.Kind use stories and learnings to educate the people who come to the studio.
- A developer in North Adelaide and the CBD, is trying out new technologies in hotels to reduce electricity usage, primarily through quality insulation. (<https://www.carbonneutraladelaide.com.au/news/when-is-a-hotel-like-an-esky>)
- The Majestic Hotel built on the old Channel 9 site on Tynte Street is designed to minimise the need for cooling and has cut power bills by half as well as being greener.
- The owner of the Terry White Chemists on Melbourne Street is a leader in recycling pharmaceutical blister packets from community members. (<https://citymag.indaily.com.au/happening/meet-north-adelaides-most-stubborn-super-recycler/>)
- GISA is undertaking numerous projects with the City of Adelaide and other city businesses including matching up businesses with consulting firms to identify opportunities for improvement, waste projects, emissions projects, individual business grants or precinct/cluster grants.
- Cross-government action is happening – a government greenhouse accounting method is being developed, government agencies can obtain funding for energy efficiency and upgrades for government buildings, retail energy productivity scheme (REPS) provides incentives for South Australian households and businesses to save energy through lighting, batteries and other productivity measures. ESCOSA are the administrators of REPS and are trying to improve the amount of information on what can be done via REPS. <https://www.escosa.sa.gov.au/industry/reps/overview>
- Some organisations are working to bring Formula E to Adelaide with an associated festival of e-motion to promote Adelaide as a city of clean energy.

What are the opportunities to work together?

Participants identified the following opportunities to work together:

- Collecting waste with other businesses to create economies of scale
- Sharing excess solar to other nearby buildings

- Establishing shared renewable energy purchase agreements
- Achieving reductions in scope 3 emissions by looking up and down supply chains to determine where businesses can tap into other change.

How can Council support others to drive action in relation to the business sector?

Participants identified many ways in which Council can support action in the business sector.

Funding

Participants identified that there is “no shortage of ideas, but there is just not enough funding” calling on Council to provide grants and other funding support.

Increasing the availability of grants for businesses in Council buildings such as the Central Markets was also identified as an important action.

Waste

Participants identified numerous ways in which Council can support improvements in business waste reduction.

Participants suggested Council providing co-funding for TerraCycle Zero Waste Boxes, a popular recycling business that partners with individual collectors to recycle hard to recycle items like blister packs. It can be expensive for businesses to participate in TerraCycle, and businesses would appreciate support from Council to facilitate recycling schemes for particularly hard to recycle items which would otherwise go to landfill.

RedCycle is another program similar to TerraCycle. Participants suggested Council could provide RedCycle locations throughout CBD as alternatives to supermarket RedCycle collection points which do not accept soft plastics and other recyclables from traders and businesses.

Participants identified that recycling can be difficult for apartment residents due to strata issues. Blocks of 50-75 apartments can be too small for larger recycling bins but too large for individual bins. Supporting better waste separation in apartment buildings was considered a “quick win” for Council.

Participants shared that many restaurants and pubs find it difficult to find providers to take their food waste. They suggested that Council could provide a facilitation role to link hospitality venues to food waste providers.

Duxton Capital Australia asked for support from Council for phase 1 of their waste project.

Transport

Council could also support green transport. Participants highlighted a need for more active transport infrastructure including secure, convenient bike parking and paths that link across the city and to the suburbs. Participants would like infrastructure to encourage choice, promote safety and provide connections across Adelaide. They would like consistent commitment from Council to deliver this.

Energy

Participants suggested Council could help business owners navigate what support is available for renewable energy. Businesses would like more clarity about what different energy advisory programs provide. They also expressed interest in shared purchase agreements or a whole of City of Adelaide tender for renewable energy to increase accessibility and affordability for businesses.

Events

Participants identified opportunities for Council to work together with businesses on events such as those held at the Central Markets. These events could provide an easy platform to raise mass awareness and help people get on the climate action journey.

Carbon offsetting

Participants expressed interest in Council developing a local carbon offset scheme such as a local Emissions Reduction Fund. Small businesses collectively have lots of rooftop and other space for plantings and other carbon sequestration opportunities, and participants would like to see these spaces utilised and incentivised for green space. Participants also suggested that businesses could pay Council to offset their carbon emissions and the Council could use this money to fund greening projects. Council could partner with other Councils in regional areas to establish this program.



Climate Action Planning Engagement

Transport Workshop 7 March 2022

Attendees:

- Six Cats
- Transport Australia Society
- EcoCaddy
- RAA
- Flexicar
- JET Charge
- Department of Energy and Mining
- Walking SA
- Bike Adelaide
- Bike Adelaide community group
- JET Charge
- City of Adelaide
- URPS

Venue: Zoom

Summary of discussion

Where should action now be focused in relation to the transport sector?

Participants emphasised that the future of sustainable transport relies on having the “right mode of transport in the right place”. Discussion centred around carparking, slow/slowing traffic, electric vehicles, reducing car ownership, and active transport.

Car parking

Participants identified that Adelaide has a current over-supply of carparking. The transition of these assets was discussed at length, including options such as repurposing on street parking for bike/e-bike/scooter lanes and footpaths, and transitioning multi-level car parking stations into electric vehicle friendly car parks, or repurposing them into apartments or other uses.

Slow traffic

The “slow” traffic model was supported by multiple participants, with desire expressed for a city that promotes a slower pace and greener environment which would be safer and better for commerce, health and the environment. Other ideas raised to promote a “slow” city included transitioning lanes from car traffic to cycling and pedestrian traffic, reducing vehicle speed limits, and giving pedestrians the priority at traffic lights.

Electric vehicles

Electric vehicles (EVs) were identified as the “vehicles of the future”. It was shared that e-bikes and e-based vehicles are the biggest growing transport sector. However, participants identified that the main challenge to increasing EV uptake will be the availability of EVs following rapidly increasing demand and supply chain disruptions following COVID-19. Addressing charging issues, such as for those without off-street parking, was also identified. Electrifying other forms of transport was also supported.

Participants emphasised that South Australia is a leader in electricity generation and has the opportunity to capitalise on this to promote an electric vehicle “revolution”.

Reducing car ownership

Making car ownership “more of a choice” was another topic of discussion. Participants raised short-term car hire and ride sharing as key opportunities to achieve this. One participant stated that “shared mobility is the future”. Increasing active transport and other micro-mobility options including e-bikes, scooters and gophers were other suggestions for replacing cars.

Active reavel

Participants emphasised that Adelaide is well suited to supporting active travel due to its flat topography. Promoting more active travel will involve implementing improved cycling infrastructure, increasing safety, and considering cross-city and suburb connections. Participants identified the benefits of increasing bike transport as reduced traffic congestion, increased public space and amenity benefits, increased equality and accessibility and reduced emissions.

Overall, participants emphasised that “carbon neutrality is the most important thing” and that we need “sustainable mobility for all”. They highlighted that this will be increasingly important as the introduction of global carbon taxes sees a move in

overseas markets away from carbon intensive products, reducing our ability to export goods.

What climate action is already being undertaken that others could leverage or learn from in relation to the transport sector?

Participants identified the following examples of leading climate action in the transport sector:

- Eco-caddy provides eco-friendly bike and rickshaw tours around Adelaide that provide alternatives to car use to travel around the city
- New York is currently trialling a transition toward more cycling through use of cycle corridors with businesses located along the route
- Denmark is currently re-purposing car parks into housing
- Transport Australia has released a discussion paper on the safety advantages of slow traffic
- RAA has won the state government grant to roll out South Australia's first electric vehicle charging network
- Industry including Amazon, Uber, UPS and Australia Post is leading innovation in transport
- All east coast cities undertook cycle 'pop-ups' post COVID
- There are already 10,000 cycle movements in and out of the City per day
- U-Park create competitive offers for EV charging
- City of Playford has retrofitted car parks to enable the transition to residential uses.

What are the opportunities to work together?

As the centre of Adelaide, connectivity of bike routes from the City of Adelaide into the suburbs was considered important. Participants suggested the City of Adelaide could work together with other metropolitan councils to progress a cycling transition program across Adelaide that promotes a connected bike network.

How can Council support others to drive action in relation to the transport sector?

Participants emphasised that the next 15-30 years, the timeframe of the City Plan, is a critical time for emissions reduction and as such, a rapid transition to low carbon

transport is required. Participants suggested Council could drive action in the transport sector in the following ways:

Electric Vehicles

Participants suggested Council promote EV uptake through incentives, education, transitioning the Council fleet towards mass model EVs and sharing trusted sources of information about availability and charging requirements of EVs.

Providing additional EV charging stations was highlighted as one of the most important actions Council can take to support uptake of electric vehicles. Participants also suggested providing free charging at City festivals, events and at the Central Markets. Charging facilities for electric bikes and use of electric buses was also identified as important.

Car parking

Participants considered that the City of Adelaide has the political influence to drive the diversion away from car parks. Participants suggested that Council could address the oversupply of carparks in the city by switching Council owned car parks to residential and other land uses and on street car parks to cycling lanes, or introducing a car parking levy as carparking is currently the "largest untaxed resource in the city".

One participant identified the perverse outcome for residents in North Adelaide who have to move their car every 48 hours if parked in a permit zone on the street, causing unnecessary traffic. Similarly, workers continuously move their cars throughout the day due to time restrictions and suggested Council change these rules to "encourage people not to drive" and instead to "just park and leave".

Prioritising on street parks for loading zones, taxi/ride share zones and electric vehicle charging was considered important by participants.

Cycling

Participants identified "political leadership and investment" as critical to promoting cycling. They noted that strong political will was necessary to "change the way cities have been built for hundreds of years" to "reallocate space for cycling". While historically the City of Adelaide Elected Members have been "quite hostile to cycling", participants believe that cycling is key to a carbon neutral future.

Participants also recommended Council introduce policy around sustainable transport that "encourages idea development, leads to business outcomes, and creates a suitable environment for others to invest, trial and test". They recommended that bike festivals, popups and other events could be run or supported by Council to promote cycling. They also raised that creating a "green", "hospitable" and "shady" environment with stop lights that are shaded and prioritise pedestrian and cycling movements could be implemented by Council. Rebates for e-bike purchases by residents was another idea raised.

Climate Action Planning Engagement

Youth Forum
Monday 28 March 2022

Attendees:

- Adelaide School Strike 4 Climate group
- CH4 Global
- St Aloysius
- First year university student
- First year university student (nursing)
- Third year university student (accounting)
- Graduate Consultant at URPS

Venue: Stone and Chalk

Summary of discussion

Where should action now be focused in the city from a youth perspective?

Workshop participants suggested that increasing use of active and public transport should be a focus area for climate action. They suggested that reducing the cost of public transport and providing better cycling infrastructure would encourage more young people to use green and active transport options.

Social justice issues including food security and women's rights were highlighted as directly related to climate change, and participants suggested that the links between the two should be further emphasised.

Wind power, waste and improving the ability of young renters to make green choices were also raised as important areas for action.

Youth participants emphasised that we need to “implement the solutions we already have” and “act now for future generations”

What role can young people play to progress action?

Workshop participants highlighted that many young people are renting or still living at home and do not have complete control over their lifestyle choices. Examples included rentals including bills in rent prices which disincentives minimising electricity, gas and water use, renters not having the ability to install solar panels or choose renewable power, and parents driving their children around in cars.

They also explained that they currently have little decision making power. Without the financial resources or the authority to initiate the change themselves, they often rely on school or community groups to get involved in climate change. However, young people shared that they often do not feel valued or heard at these forums.

Participants also highlighted the many ways young people can play an important part in climate action. They explained that young people tend to be very passionate about climate change and “want to contribute”.

Having connected groups of like-minded young people that collaborate and share each other’s successes was identified as a key factor to get young people involved in climate action. Being involved in groups such as Australian Youth Climate Coalition (AYCC), the SA Student Representative Council (SRC) and youth forums was identified as one way to do this.

Being involved in activism and advocacy was identified as another way for young people to get involved. Participants identified that young people can use the “power in their voice as a young person” to advocate to government for better funding and decision making around climate change. Getting involved in activism in different ways including school strikes for climate was also suggested.

Educating yourself and others through podcasts, news, audiobooks, books and videos was identified as a key way for young people to understand what actions can be taken to combat climate change.

Using public and active transport and encouraging other family members to do the same was identified as another way for young people to take action.

What support do young people need to take action on climate change and how can Council provide this support?

All participants agreed there is a need for a space where young people can come together and talk about climate action on a regular basis. They explained that climate change is a topic that rarely comes up in conversation amongst friends and family, but that greater education of young people is critical to give them the tools to take action

and have hope for the future. They also explained that many young people want to get involved in climate action but “do not know how”.

Workshop participants suggested that Council could play a key role to bridge this education and connection gap between young people and climate action. Hosting a regular youth climate action forum, setting up a Youth Advisory Committee, establishing a Council climate action social media page, sending information to schools, and sharing other opportunities for young people such as school strikes or AYCC events were raised as ways Council could do this. Participants noted that promotion of climate action groups, events and information would reach young people best on social media such as Instagram.

If Council were to host a youth climate action forum or Youth Advisory Committee, this could provide an avenue for the ideas of young people to be shared with the wider community. It could also help young people to influence decision makers, as participants emphasised that young people need to be part of the decision making process around climate action.

Participants highlighted that this support would be particularly important for school students who currently have limited ability to take action on climate change or influence decision making. Collaboration with university climate change clubs to run workshops or other events was another idea to reach a wide audience of young people.

What should Council be doing to support climate action more generally?

Workshop participants raised active transport infrastructure and waste as other areas where Council can drive climate action.

Providing dedicated bike lanes, improved lighting, more safe bike racks and shade trees shade along bike lanes, and working with neighbouring Councils to provide connected cycling routes, were identified as ways Council can increase the number of people cycling. It was noted that applying a carbon price to this infrastructure would make it cost effective.

Waste was another area of conversation, with participants raising concerns about the limited recycling services provided to commercial businesses, especially considering the proportion of emissions they take up in the City of Adelaide. Participants suggested that Council could offer improved waste services to businesses, especially for small business. They also suggested advocating to the State Government to change waste legislation, for example to facilitate fortnightly red bin collection.

Climate Action Planning Engagement – ASBN Workshop

6 April 2022

Attendees:

- SA Government
- Troppo Architects
- Harvery Norman
- Tafe student
- Adelaide University student
- Fielders
- Sarah (Construction)
- SA Government
- Bluescope steel
- Suntrix
- The Partnership
- Northern Edge Studio
- Mott Macdonald
- Uniting Communities
- Tafe student
- Hosking Willis
- Mott Macdonald
- JPE Studios
- Onkaparinga

Venue:

Online

Objectives and format of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. Council hopes to use this plan to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce council and community emissions.

The City of Adelaide Low Carbon & Circular Economy team has been working with engagement specialists URPS to deliver an engagement process to gather input to the new Climate Action Plan. This engagement has been with external stakeholders and broader community as well as internally with different teams from within Council.

The Low Carbon & Circular Economy team has led the delivery of a series of external workshops to gather feedback on which actions should be prioritised in the Climate Action Plan. A SustainabiTEA session was held with the Adelaide Sustainable Building Network (ASBN) to discuss the City of Adelaide's emission reduction actions. The information gathered at this session is summarised below.

Summary of discussion

What are the opportunities for emission reductions within the built environment?

Participants at the SustainabiTEA session identified the following opportunities for emission reductions within the built environment:

- Electrifying everything within the built environment is essential, from very large developments down to residential developments
- Focusing on embodied and whole of life emissions
- Reducing consumption through smart design, smart systems, renewable energy procurement and alternative, recyclable materials
- Including an environmentally sustainable design (ESD) consultant from the beginning of projects and making this part of the “business as usual” process
- Addressing upgrade needs of existing properties as well as new builds, as 80% of Adelaide property is over 20 years old

How can council support emission reductions within the built environment?

Participants suggested that council could support emission reductions within the built environment in the following ways:

- Educating businesses, occupants, clients and governments around materials and carbon neutrality options
- Continuing to connect others to share knowledge and skills
- Working with other councils and international bodies to advocate for reducing embodied carbon
- Using Council's carbon neutral plan as a measure for new council projects to improve design, development, tender and construction processes and to lead by example
- Encouraging carbon neutrality in private development, including through advocacy for improvements to planning policy
- Focusing more on reducing consumption rather than offsetting to aim for net zero
- Bringing back Park(ing) Day
- Including ESD in tenders and specifications

What are the barriers to these actions?

Participants identified the following barriers to reducing emissions in the built sector:

- People are still buying the cheapest option rather than the most sustainable one
- Consumers who do want to purchase sustainable products need to look carefully at product credentials to ensure they are not just green washed
- The upfront costs of reusable, recycled, sustainable materials remain a barrier
- Certification schemes do not help to identify sustainable products
- The development approval process presents a myriad of barriers

Climate Action Planning Engagement – Carbon Neutral Adelaide Partners Workshop

17 March 2022

Attendees:

- Northern Edge Studio
- Tandem Energy
- Enpro Envirotech
- dSquared Consulting
- Orbitel
- Stone and Chalk
- EfficientSee
- Packwise
- Hames Sharley
- Uniting Communities
- Conservation SA

Venue:

Online

Objectives and format of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. Council hopes to use this plan to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce council and community emissions.

The City of Adelaide Low Carbon & Circular Economy team has been working with engagement specialists URPS to deliver an engagement process to gather input to the new Climate Action Plan. This engagement has been with external stakeholders and broader community as well as internally with different teams from within Council.

The Low Carbon & Circular Economy team has led the delivery of a series of external workshops to gather feedback on which actions should be prioritised in the Climate Action Plan. At the workshop with the Carbon Neutral Adelaide (CNA) partners, a discussion was held regarding the actions CNA partners are already taking to reduce emissions, further opportunities to reduce business and community emissions, and the actions council can take to reduce emissions.

Summary of discussion

What climate actions are already being undertaken by CNA partners that others could leverage or learn from?

CAN partners are currently progressing the following climate actions:

- Stone and Chalk are investigating how to support start-ups to do small carbon assessments and become carbon neutral
- Uniting Communities have also set a net zero target for 2035 and are continually advocating and presenting to others to encourage them to make similar net zero commitments. They are working to make U City a carbon neutral building and are already using shared solar
- Northern Edge Studio is focused on renewing, recycling and reusing buildings to reduce building demolition
- Tandem Energy is providing more mobile and stationary renewable energy storage capacity to ensure renewable energy generated during peak times is not wasted
- Dsquared are carbon neutral certified and use 100% renewable suppliers
- Packwise packaging work with businesses to transition them to 100% compostable packaging
- EfficientSee are working towards hydrogen options
- Enpro Envirotech are providing several low carbon solutions including Rapid Thermophilic food composting to divert food waste from landfill, Thermoreflective coating to reduce energy bills by 20-40%, and centralised waste to bioenergy systems
- Orbitel help to transition companies away from servers to cloud solutions for computer systems and phone systems to reduce energy use, transport for meetings, hardware requirements and paper use

What other opportunities are there to reduce business and community emissions?

CNA partners identified further opportunities for reducing business and community emissions including the following:

- Several CNA partners identified electrifying transport as a priority, including the roll out of the state-wide electric vehicle charging station network
- Investigating the future potential of hydrogen for the transport sector
- Prioritising electrification and use of renewable energy, and moving away from gas especially for heat pumps
- Using systems and technologies with lower energy intensity, higher efficiency, and better overall productivity
- Reducing emissions associated with the built sector, including regenerative design, electrification of new and refurbished buildings and reduction of embodied carbon
- Learning from nature
- Increasing tree canopy cover

How can Council best act to reduce emissions?

CNA partners suggested that Council could best reduce emissions through the following actions:

- Playing a leadership role as a hub a of public transport and the destination of so many visitors
- Setting clear concise emission reduction goals
- Hosting a focus group for partners that have committed to net zero or carbon neutrality that is more project based rather than broad ambitions, and is not too structured and time intensive for partners
- Collaborating on projects with other groups such as the Climate Action Sustainability Taskforce, Committee for Adelaide, other councils etc.

- Supporting local regeneration, revegetation and carbon offset projects
- Aiming towards net-zero without the need for overseas offsets
- Providing easy to access information to help businesses and individuals to know where to start and what to do to reduce their emissions
- Improving the renewable energy storage capacity of the city through installation of batteries and stationary and mobile storage in addition to coordinating some of the higher energy loads within the city

Climate Action Planning Engagement – Culture and Environment Roundtable

15 February 2022

Attendees:

- Festivals Adelaide
- Festival City Adelaide
- Larsen Keys
- Adelaide Festival
- Lord Mayor of Adelaide

Venue:

Online

Summary of discussion

- Embed event licenses/direction with considerations from First Nations First perspective and considerations for the climate crisis.
- Shift from adaptation and mitigation to regeneration — in language, policy, and measurement. Embed regeneration in KPIs, strategies, deliverables, and evaluation. Centre First Nations people in leadership roles and decision-making.
- Use the medium of the arts to communicate with those for whom environmental sustainability is not front of mind, and utilise our peer networks to source good practice and connection, support.
- Complexities of solutions - prioritising slow, deeper engagement, grassroots progress and approaching each other with patience and the room to explore concepts, complexities, and contradictions without judgement.
- Beyond 'greening' the system as it is. Can the arts helping to lead the 'social transformation' promised in the Paris Agreement?
- People want to know what they can do right now, and what services / tools are available to assist.
- Harness the collective power for arts organisations by sharing what we're doing (information, resources or even staff), getting others on board and maximising bargaining power and economies of scale.
- Create a central online portal to share our sustainability action plans. In our work to be more First Nations and community-led, take on some of the emotional labour of the groups and leaders we all call on again and again by: collaborating, checking in and broadening our networks to distribute the load. On an individual level, commit to reusable, compostable or 10c recyclable materials at our events.
- Establish a shared climate action resource toolkit embedded across all the online spaces where artists gather already - showcasing all the work being done to give people tangible options to act now.
- Reform the grant-funding process to be more cost effective for independent self-producing artist - how can we subsidise the fees or commit to uncompromised full funding of productions rather than making artists work with 25% budgets.

Climate Action Planning Engagement – Reconciliation Committee meeting

4 May 2022

Key points for Action Plan:

- Important to ensure collaborative work that links across greater Adelaide to the city.
- Communication and education for First Nations People and younger people is key.
- Opportunity to consider role of Blue Carbon in offsets
- Climate Action is everyone's responsibility not only Council or a specific group/individual

Other comments:

- Adelaide as a National Park City – what is the relationship with other LGAs – need them to have the same thinking
- How is Adelaide going to line up with the rest of Adelaide outside of the city?
- Heal Country recommendations – giving Aboriginal people permission of consent and discussion – reality is the action empowerment needs to be with Aboriginal people and needs to align with other Councils – related to carbon abatement, carbon offsets, blue carbon
- Federal government funding for blue carbon – we need to look at it here
- Federal government water allocation – SA Water – water relations and water allocation plan – environmental flows – Aboriginal empowerment
- All good work Adelaide city is going to do needs to flow on to the other Councils and fit within State and Federal plans
- Share feedback to local Aboriginal community and younger people
- Need to get the private sector and community involved
- Need to educate people about fundamental things like reducing waste in bins
- It is everybody's responsibility to stop climate change
- Revegetation – replant natural plants that use to grow
- Water flow not spoken about much – water table affects all the plantings here – potential implications of water table dropping e.g. trees dying?
- Are there any records about original waterholes/springs around the CBD? – where they were, where they are running to/if they are still running – can we store water underground in city to use when water table drops

Climate Action Planning Engagement – Elected Member Workshop

19 April 2022

Attendees:

- Lord Mayor Sandy Verschoor
- Cr Keiran Snape
- Cr Phillip Martin
- Cr Alexander Hyde
- Cr Franz Knoll
- Cr Arman Abrahamzadeh (Chair)

Venue:

City of Adelaide

Objectives and format of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. Council hopes to use this plan to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce council and community emissions.

The City of Adelaide Low Carbon & Circular Economy team has been working with engagement specialists URPS to deliver an engagement process to gather input to the new Climate Action Plan. This engagement has been with external stakeholders and broader community as well as internally with different teams from within Council.

The Low Carbon & Circular Economy team has led the delivery of a series of internal workshops to gather feedback on which actions should be prioritised in the Climate Action Plan. At these internal workshops, the context for the project was provided including a summary of climate change trends, the City of Adelaide's climate ambition, and the status of internal and external engagement. A discussion followed areas of opportunity to support further emission reductions and the barriers and knowledge gaps for these actions.

The information gathered at the workshop with Elected Members is summarised below.

Summary of discussion

What are the opportunities to reduce corporate emissions and what is council's role in actioning these opportunities?

Elected Members discussed the following opportunities for reducing the City of Adelaide's corporate emissions:

- Going beyond carbon neutral to get to carbon zero without the need to rely on offsets
- Better articulating goals around embodied carbon

- Pulling the leavers that council can influence to create a bias within our system for electric vehicles, such as providing incentives for electric vehicles to come into the city and park at zero or reduced fees
- Continuing to use emissions modelling to validate the impact of our actions, and doing more detailed modelling of the carbon abatement results of particular programs
- Supporting group buying of renewable energy, including investigating the potential for council to do a group buy with other councils or the LGA
- Investigating generation of our own carbon credits

What are the opportunities to reduce community emissions?

Elected Members identified many opportunities to reduce community emissions in the City of Adelaide. Transport was a key topic of discussion with the following opportunities identified:

- Reducing reliance on private combustion vehicles as a focus area for future emission reduction
- Investigating exactly how big the oversupply of carparking is, and considering how this will be addressed with a focus on increasing alternative transport options
- Balancing the need to provide peak parking supply with the benefits of encouraging electric vehicles and other forms of transport
- Using community feedback regarding transport as a priority, as they are the actual daily users of our transport systems
- Advocating for improved public transport as a low hanging fruit that answers a number of other land use problems
- Acknowledging that the number of cars is not reducing due to uptake of electric cars, and considering the impact this will have on carparking demand
- Using electric vehicles in the council fleet to create a second hand market of electric vehicles
- Engaging with the Department of Treasury and Finance to encourage them to reduce or abolish stamp duty for electric vehicles and hybrid vehicles

Other opportunities for community emission reduction identified by Elected Members included:

- Encouraging major consumers and corporates to also take action, for example Sky City who are working with the Convention Centre on carbon neutral, zero waste and zero emission targets, and WOMAD who has done carbon offset planting in Kangaroo Island
- Working towards making youth feel more empowered about their own choices
- Focusing on the practical solutions that we can have an influence on to change what people do
- Encouraging a variety of technologies that can deliver electricity or other forms of energy to support an all-electric city transition

What are the barriers and knowledge gaps?

Elected Members recognised that there are a range of barriers for reducing corporate and community emissions including:

- The Planning and Design Code remains a barrier to low carbon design. How can we work through CAP or SCAP to influence the Planning and Design Code policies that we have direct control over to incentivise higher rated buildings?
- Prohibitive regulatory framework and laws still exist around private personal mobility devices such as e-scooters

- There is a lack of a second hand market of electric vehicles which is slowing uptake

They also identified several knowledge gaps:

- It is important to better understand how and why people travel into the city and what they need to better support low carbon travel, and use this information to address changing transport needs
- Elected Members are interested to have more information about the uptake of the Energy Assessment Program and whether it was worthwhile

Climate Action Planning Engagement – Access and Inclusion Assessment Panel Workshop

3 March 2022

Attendees:

- 11 panel members
- 4 staff

Venue:

City of Adelaide

Objectives and format of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. Council hopes to use this plan to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce council and community emissions.

The City of Adelaide Low Carbon & Circular Economy team has been working with engagement specialists URPS to deliver an engagement process to gather input to the new Climate Action Plan. This engagement has been with external stakeholders and broader community as well as internally with different teams from within Council.

The Low Carbon & Circular Economy team has led the delivery of a series of external workshops to gather feedback on which actions should be prioritised in the Climate Action Plan. At the workshop with the Access and Inclusion Assessment Panel, the context for the project was provided including a summary of climate change trends, the City of Adelaide's climate ambition, and the status of internal and external engagement. A discussion followed regarding the impacts of emission reduction actions on marginalised groups and how the involvement of these groups in emission reduction actions can be improved.

The information gathered through the discussion with the Access and Inclusion Assessment Panel is summarised below.

Summary of discussion

What are the impacts of previous actions to reduce emissions?

The Access and Inclusion Assessment Panel identified several impacts of previous actions taken by the City of Adelaide to reduce emissions including:

- Many of the very limited disabled parking spots in City of Adelaide have been replaced by EV charging spots, for example 70 disabled parks have recently been replaced in Light Square
- Banning of single use plastics has increased the difficulty in cleaning up after guide dogs
- Meetings hosted in inaccessible venues results in the silencing of voices

- Disabled people often have trouble providing feedback to proposals and policies around sustainability and climate change

What are the potential impacts of future emission reduction actions?

The Access and Inclusion Assessment Panel identified some of the potential impacts of future actions taken by the City of Adelaide to reduce emissions including:

- Electric vehicles can be dangerous because they are silent
- Electric vehicles are not always accessible for disabled users
- Disabled people are typically under employed, often rent in apartment buildings and cannot contribute to the set up costs of solar panels or other improvements
- Alternative transport options including electric vehicles, bikes, scooters and skateboards can result in major pedestrian safety major issues for those who are blind, vision impaired, deaf, hard of hearing, autistic, or neurodivergent (requiring sunglasses and noise cancelling headphones)

How can the City of Adelaide support more involvement in climate action?

The Access and Inclusion Assessment Panel suggested that the City of Adelaide could support more diverse involvement in emissions reduction through the following:

- Improving accessibility of schemes like SIS
- Improving accessibility of venues when hosting meetings
- Having an AUSLAN interpreter for meetings and videos related to climate change to increase accessibility for deaf people who do not have English as a first language and cannot understand captions
- Consulting with people with disabilities when developing new policies and strategies as they can provide innovative solutions
- Educating electric vehicle drivers to be more aware of the issues faced by people with disabilities, including signage in carparks and information printed on the back of parking tickets
- Considering reducing speed limits to combat electric vehicle safety concerns

Appendix B – Staff engagement

The following sections identify the opportunities, barriers and knowledge gaps identified through staff engagement only. Opportunities, barriers and knowledge gaps identified by both staff and external stakeholders have been included in the main body of the report above.

Staff engagement

Led by the Low Carbon & Circular Economy team, workshops were held internally with the following sections/teams within Council:

- City Culture
- Community Leasing
- Infrastructure
- Park Lands and Sustainability
- Low Carbon and Circular Economy
- Planning
- Property
- Transport

To further support this face to face engagement, staff could contribute online to the staff ideas board on the staff YourSay webpage for the project. To encourage participation in the engagement process, numerous Next Edition articles were posted, including an online quiz with prizes offered to three participants.

Staff participation

The focus of the engagement was on holding deep and detailed discussions with targeted stakeholders while also providing opportunity for those how are interested to provide input.

Across the staff engagement the following participation occurred:

Engagement activity	Participation
Staff YourSay page	21 visitors 11 individual contributors 9 ideas 10 likes 7 comments
Staff workshops	7 workshops held

Further testing/validating of engagement findings

Following on from the preparation of this summary engagement report and as the new Climate Action Plan is prepared the Low Carbon & Circular Economy team will undertake further engagement internally with Elected Members, Executive Leadership Team and targeted staff.

B1. Moving towards an all-electric and resource efficient city

Electrification and resource efficiency was one of the key themes for action raised in engagement with staff.

The following section describes opportunities identified through the staff engagement to reduce emissions associated with Council (corporate) and community energy and resource use.

Opportunities for action – electrification of Council operations and resource efficiency

Council staff identified numerous opportunities to reduce Council’s operational emissions through electrification and resource use efficiency described in Table 10.

Table 10 Opportunities to reduce council emissions through electrification and resource efficiency (identified by staff only)

Opportunity	Identified by
Policy, planning and design	
Integrating energy efficiency into leasing policy, for example implementing an incentivised fee structure for signing up to renewable energy or setting emissions benchmarks for tenants	Community leasing, Park Lands and Sustainability and Low Carbon and Circular Economy staff
Create a checklist that is easy to use to assess the sustainability of developments	Planning staff, property staff
Replacing the singular technical standard for Council buildings with multiple technical standards that consider carbon emissions and are applicable to diverse building types as the best way to reduce corporate emissions.	Property staff, infrastructure staff
Use tools such as the Green Star system to set standards for council buildings and infrastructure	Community leasing staff
Review the Parklands Building Guidelines and Parklands Lease and Licence Policy	Community leasing staff
Assisting with linking data into strategic plan objectives to help the Infrastructure team to implement long-term, permanent, low carbon infrastructure rather than temporary, maintenance-intensive, short-term infrastructure	Infrastructure staff
Provide a library of resources for council staff that is easy to understand, can be used to review technical standards, and will support a transition towards making low carbon infrastructure business-as-usual	Community leasing staff
Council buildings and infrastructure	
Upgrade existing council buildings to increase energy efficiency – assets that are used by the community such as libraries and community centres	Community leasing staff
Audit the energy use of tenants in Council buildings to help them to increase their energy efficiency	Community leasing staff
Use “green” concrete instead of common concrete	Infrastructure staff
Working with manufacturers who are reducing the carbon content of their products to keep government contracts	Infrastructure staff

Progress the proposal to change the 30% of the City of Adelaide's public lighting owned by SA Power Networks to LED	Infrastructure staff, community
Investigate opportunities to reduce whole of life costs, for example using concrete footpaths that have less maintenance requirements	Infrastructure staff
Reduce mains water use by incorporating stormwater reuse and retention in building development and plumbing larger rainwater tanks plumbed into building, to avoid the need to upgrade stormwater infrastructure to cope with increased storm intensity in the future	Infrastructure staff
Partner with industry, suppliers and peak bodies to pilot/demonstrate projects and drive improvement	Infrastructure staff
Energy generation and storage	
Encourage parklands lessees/groups to use renewable energy through a range of opportunities including coming on to the City of Adelaide's renewable energy contract, supporting shared renewable energy arrangements, implementing incentives for lessees who use renewable energy contracts, collaborating on an electricity contract with ACSARA, and partnering with CORENA to provide interest free loans for solar installation	Community leasing staff
Use the influence the City of Adelaide has over the Ergo apartment complex as the owner of 20 of the 70 apartments to assist the strata community with the process of shared solar investment	Property staff
Waste	
Increase diversion of council waste to recycling and organic compost to reduce reliance on landfill	Transport staff
Implement the Resource Recovery (Recycling, Organics, Waste) Strategy and Plan	Park Lands and Sustainability and Low Carbon and Circular Economy staff
Audit waste emissions to better understand emissions sources (eg volume of waste, transport of waste)	Park Lands and Sustainability and Low Carbon and Circular Economy staff

Opportunities for action – community electrification and resource efficiency

During the staff workshops, a range of opportunities for actions to reduce community emissions through electrification and resource use efficiency were identified. These ideas have been collated and summarised in Table 11.

Table 11 Opportunities to reduce community emissions through electrification and resource efficiency (identified by staff only)

Opportunity	Identified or support by	Role of Council
Energy efficiency		
Encourage sustainable development by supplementing mandatory policy with additional recommendations for new builds and building upgrades and review sustainability requirements are met or exceeded	Community leasing staff	Advocate
Help strata communities and disabled renters access the Sustainability Incentives Scheme (SIS)	Property staff	Facilitator, funder
Share case studies of development that exceeds minimum quality standards without extra costs (for example glazing, shading, insulation and solar)	Community leasing staff	Provider
Renewable energy generation and storage		
Explore opportunities to test and trial shared battery hubs between neighbours, in a similar fashion to the community battery in Yackandandah, eg at Christie Walk	City culture staff	Funder, facilitator, advocate
Investigating using a percentage of rates to incentivise businesses to buy green power	Park Lands and Sustainability and Low Carbon and Circular Economy staff	Provider
Buildings and infrastructure		
Encourage a culture change of companies seeking the branding benefits of green credentials, for example the 6 green star Women's and Children's Hospital	Park Lands and Sustainability and Low Carbon and Circular Economy staff	Advocate, facilitator
Use the control council has to ensure the redevelopment of the bus station site between Grote and Franklin Street, which will likely be residential, considers climate resilience, is energy efficient, and is as sustainable as possible	Property staff	Regulator, advocate
Ensure that development applications are assessed with sustainability outcomes in mind, and checking developer's detailed designs throughout the process to ensure promises are carried through.	Property staff	Provider
Consider how to influence developers' care about building longevity and occupant experience and less about short term profit	Planning staff	Advocate, facilitator
Respond to the shift to working from home by repurposing existing city buildings, encouraging multiple companies to share one office space, and investigating other impacts of less city office use	Park Lands and Sustainability and Low Carbon and Circular Economy staff	Facilitator, advocate

Opportunity	Identified or support by	Role of Council
Build in criteria or give a beneficial weighting to climate smart residential development opportunities in the city, such as applying discretionary rate rebates to low carbon buildings	AEDA	Regulator, facilitator
Upgrade infrastructure in Rundle Mall to be more climate smart, including increasing shading, bench spaces and water sources and changing the paving to a lighter colour	AEDA	Provider
Advocate for an Environmental Standards Levy to replace the Open Space Levy for the CBD	AEDA	Advocate
Encourage sustainable student accommodation, such as the recently built Global Student Accommodation (GSA) building	AEDA	Advocate, regulator

Barriers to action

During the staff workshops, participants were asked to identify barriers to progressing the opportunities identified in relation to electrification and resource use efficiency. These barriers are summarised below.

Financial barriers:

- Perceptions that environmentally sensitive projects and low carbon infrastructure has additional upfront cost or maintenance and upkeep requirements, despite case studies showing that the investment in efficiency features frequently 'pay themselves back' through operational costs.
- Business tenants are often very small businesses who do not have the capital for solar and tend to not plan for the long term
- Rentals that include bills in rent prices disincentives minimising electricity, gas and water use, renters not having the ability to install solar panels or choose renewable power,
- The upfront costs of reusable, recycled, sustainable materials remain a barrier
- Disabled people are typically under employed, often rent in apartment buildings and cannot contribute to the set up costs of solar panels or other improvements.
- Upgrades for business tenants are negotiated and do not come under the expense lines or leasing
- Community clubs have a perception that sustainability aspirations such as solar panels, rainwater tanks, glazing, insulation etc. mean higher costs, and often expect council to fund these installations.

Planning and development barriers:

- Sustainability standards for developers are voluntary rather than mandatory, resulting in many trade-offs in negotiations.
- Heritage, tree canopy and roof structure issues can hinder development approval for solar panels.

Other barriers:

- Expert advice is required to make environmentally sustainable design decisions in building upgrades – clubs, especially small clubs, do not have this knowledge.
- Potential lack of demonstrated suitability of sustainable products in relation to their reliability, construction methodology and cost effectiveness.
- The speed of technology advancements results in significant uncertainty for the future and flexibility of planning and designs becomes increasingly important
- Good intentions for new builds do not always translate into adequate outcomes. For example, proposed parklands developments concept designs can be made under time pressures for funding and the environmental ratings are in competition with other priorities.

Knowledge gaps

A number of knowledge gaps were identified by Council staff in relation to the opportunities to reduce emissions associated with electrification and resource use efficiency including:

- Post-COVID behaviour changes in relation to household energy use and longer term impacts
- A lack of demonstrated suitability of sustainable products and a lack of easy methodology to undertake whole-of-life embodied carbon assessments.

B2. Mobility and transport around the city

Opportunities for action – Council transport and mobility

Staff identified a number of opportunities to reduce Council's operational emissions associated with transport and mobility (refer Table 12).

Table 12 Opportunities to reduce emissions associated with council transport and mobility (identified by staff only)

Opportunity	Identified by
Reducing council's transport emissions by electrifying the Council fleet	Transport staff
Planning for the infrastructure required to support an electric vehicle fleet	Transport staff
Obtaining a Carbon Neutral certification for UParks	Transport staff
Implementing car share permits through Flexicar (RAA)	Transport staff
Supporting a mode shift for staff travel to work, for example public transport discounts, bike incentives etc.	Transport staff, Infrastructure staff, Park Lands and Sustainability and Low Carbon and Circular Economy staff

Opportunities for action – community transport and mobility

During the staff workshops, a range of opportunities for actions to reduce community emissions associated with transport and mobility were identified. These ideas have been collated and summarised in Table 13. The potential role of Council in each opportunity was also identified (refer section 1.4).

Table 13 Opportunities to reduce emissions associated with Council transport and mobility (identified by staff only)

Opportunity	Identified or support by	Role of Council
Electric vehicles		
Providing land to others to install charging infrastructure	Transport staff	Provider
Investigate the Jolt model where chargers are installed for free with access to advertising	Transport staff	Provider
Hold “drive-an-EV” events to demystify EVs and encourage people to invest	Staff	Facilitator
Produce more renewable energy to support widespread electric vehicle use	Transport staff	Partner
Continue the Neuron & Beam e-scooter trial	Transport staff	Facilitator
Investigate the use of e-cargo bikes as a last mile option for the city	Transport staff	Funder
Car parking		
Investigating wayfinding infrastructure for Uparks to help customers identify where parks are available	Transport staff	Provider
Consider the implications of autonomous vehicles uptake in the coming decades on the transport system	Transport staff	Provider
Exploring opportunities for a carbon offsetting scheme for Upark customers in the 22/23 budget	Transport staff	Provider
Public transport		
Advocating for other businesses to offer public transport incentives to staff	Park Lands and Sustainability and Low Carbon and Circular Economy staff	Advocate
Reducing private vehicle use		
Implementing a behaviour change program similar to the State Government’s Travel Smart campaign to encourage individual climate action	Planning staff	Partner
Support people to make changes such as moving into the city to reduce travel distance and time	Planning staff	Partner
Promote active transport into the city for events	City culture	Provider

Barriers to action

During the staff workshops, participants were asked to identify barriers to progressing the opportunities identified. Many barriers related to electric vehicles:

- The cost of electric vehicles is prohibitive for many
- Market availability of electric vehicles especially for trucks and Utes remains a constraint for transitioning the internal fleet
- Making e-vehicles low emissions requires charging with renewable electricity
- Electric vehicles do not solve congestion issues
- For apartment dwellers, installing their own electric vehicle charging infrastructure is a complex process, requiring strata approval
- Electric vehicles are not always accessible for people with disabilities.

Other barriers raised at the workshops are summarised below:

- Requirement for strong political support and leadership for an active and low emissions transport transition
- Translating pilot projects into projects that deliver outcomes at scale
- Concern from local businesses when loading zones or parking is replaced with bike lanes
- Installing wider footpaths and bike lanes reduces on-street parking capacity and results in a loss of parking revenue (which accounts for more than 25% of overall council revenue)

Knowledge gaps

Several knowledge gaps were identified by Council staff in relation to the opportunities to reduce emissions associated with transport and mobility. These are summarised below:

- Economic and transport models have been based on significant car travel through the city and do not consider the impacts of future changes to transport systems (eg autonomous vehicles)
- Post-COVID behaviour changes in relation to public transport and longer term impacts.

B3. Engaging with business and the community

Engaging with business and the community was one of the key themes for action raised in engagement with staff. This theme is about providing support and engagement that aims to raise awareness, knowledge and skills that enable the community to take action that leads to emissions reduction.

The City of Adelaide's community is defined for this report as including the people who live, work and visit the city and the businesses that operate there.

Opportunities for support and engagement

Council staff identified a number of opportunities to support emissions reduction with the City of Adelaide's residents, businesses and visitors. These ideas have been collated and summarised in Table 14.

Table 14 Opportunities to support resident, business and visitor emission reduction (identified by staff only)

Opportunity	Identified or support by	Role of Council
Awareness raising and education		
Run welcome days in response to community needs, such as Welcoming Cities events in partnership with Welcoming Australia	City Culture staff	Provider
Share good news stories and local climate initiatives with the community	AEDA, city culture	Provider
Promote the Carbon Neutral Adelaide initiative at events such as WOMAD	AEDA	Provider
Supporting community groups		
Support strong, active residents' groups such as the South West, South East and Christies Walk Residents Groups	City Culture staff	Funder, facilitator
Supporting and collaborating with businesses		
Promote the Adelaide CBD as a location for testing climate innovations to commercialise ideas across South Australia and the world	AEDA	Advocate
Leverage the innovation potential of Lot 14	AEDA	Advocate
Monitoring change		
Using the Next Wellbeing Dashboard to capture how people's contribution to the community and community climate action affects wellbeing	City Culture staff	Provider

Barriers to action

During the staff workshops, participants were asked to identify barriers to progressing the engagement opportunities identified. Barriers to community action are summarised below:

- Culture change takes time, and there will always be those who resist change
- Diplomacy and advocacy have been tried and tested for over 30 years now and it is still not working; what big steps need to be made to make change happen?
- Sometimes there is lack of inertia because of the difficulty of processes and the length of steps involved to take action which relegates it the “too hard” basket
- There is often a lack of capacity to take action on climate change because other stresses and pressures of life (e.g. COVID, bushfires, flooding) take precedence. How do we reduce this stress and make it easier for people to consider climate change?
- It is important to ensure that everyone is held to the same standard and everyone takes action to ensure equity and fairness.

B4. Greening the city and reducing the heat island effect

Greening the city and reducing the heat island effect was one of the key themes for action raised in engagement with staff.

The following section describes opportunities identified through the staff engagement to reduce emissions associated with Council (corporate) and community greening.

Opportunities for action – Council greening and cooling

Council staff identified a number of opportunities for greening and cooling by Council.

Table 15 Opportunities for Council greening and cooling to reduce emissions (identified by staff only)

Opportunity	Identified by
Cooling commonly used spaces such as city streets	City culture staff
Finding a balance between the cooling effects of irrigated green space and remnant vegetation in the parklands	City culture staff
Doubling the capacity of the recycled water supply (GAP) to enable more irrigated areas and increase tree canopy in the parklands to cool the city	Park Lands and Sustainability and Low Carbon and Circular Economy staff
Implementing the Integrated Biodiversity Management Plan, including use of climate resilient plantings	Park Lands and Sustainability and Low Carbon and Circular Economy staff

Opportunity	Identified by
Setting greening targets	Park Lands and Sustainability and Low Carbon and Circular Economy staff
Implementing the Parklands Management Strategy	Park Lands and Sustainability and Low Carbon and Circular Economy staff

Opportunities for action – community (private) greening

No opportunities for actions for community greening and cooling were identified through staff engagement.

Barriers to action and knowledge gaps

No barriers or knowledge gaps were identified for greening and cooling.

B5. Emissions offsets

Offsetting residual emissions to reach net zero was another theme raised in engagement with staff.

Elected Members identified a desire for the city to move toward net-zero without a need for offset and the (avoidance of) acquisition of overseas offsets was raised during a number of staff discussions.

Opportunities for action

Council staff identified one opportunity associated with council offsets described in Table 16.

Table 16 Opportunities for council offsets (identified by staff only)

Opportunity	Identified by
Investigating group buying of offsets with other councils	Park Lands and Sustainability and Low Carbon and Circular Economy staff

No opportunities were identified by Council staff relating to community offsets.

Appendix C – Staff workshop summaries

Climate Action Planning Engagement – Adelaide Economic Development Agency Workshop

15 March 2022

Attendees

- Graphic Designer AEDA
- Activations Assistant
- Manager Rundle Mall Program
- Executive Support Coordinator AEDA
- Visitor Services Coordinator
- Executive Manager Visitor Economy
- Sponsorship and Partnership Advisor
- Tourism Partnership Advisor
- Principal Economy Advisor
- Executive Assistant AEDA
- Business & Industry Engagement Advisor
- Executive Manager Business and Investment
- Property Investment Advisor
- Senior Sustainability Advisor
- Senior Policy Planner
- Business Investment Advisor
- Executive Advisor AEDA
- Manager Low Carbon and Circular Economy

Venue

City of Adelaide

Objectives and format of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. Council hopes to use this plan to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce council and community emissions.

The City of Adelaide Low Carbon & Circular Economy team has been working with engagement specialists URPS to deliver an engagement process to gather input to the new Climate Action Plan. This engagement has been with external stakeholders and broader community as well as internally with different teams from within Council.

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from the previous activity and brainstorm the kinds of actions the team could take, the barriers and knowledge gaps for these actions, and ways the Low Carbon team could support these actions.

The information gathered at the workshop with the Adelaide Economic Development Agency (AEDA) is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The Adelaide Economic Development Agency (AEDA) explained that emission reductions could be achieved through reducing residential growth emissions and increasing visitation into the city through promotion of its sustainable initiatives.

Which two of these areas have the most potential to cut emissions?

The AEDA identified promoting Adelaide as a low carbon destination as a key opportunity. They considered the following actions:

- Using the Carbon Neutral Adelaide initiative as an opportunity for partnership with businesses, a promotion opportunity and a selling point against other cities
- Promoting the Carbon Neutral Adelaide initiative at events such as WOMAD
- Promoting the Adelaide CBD as a location for testing climate innovations to commercialise ideas across South Australia and the world
- Promoting the electrification of public transport in Adelaide and the way this improves the everyday commuter experience
- Continuing to ensure the day to day city experience matches Adelaide's low carbon reputation
- Attracting the right kind of investment into the city, for example leveraging the innovation potential of Lot 14
- Improving the ability of commuters to use electric vehicles, rideshare, and other low carbon transport options or offset their transport emissions. This could involve better leveraging U-Parks for electric vehicle parking and charging.

The AEDA identified integrating sustainability into city buildings and infrastructure as another key opportunity for emission reductions in the City of Adelaide. They discussed the following:

- Building in criteria or giving a weighting to climate smart residential growth opportunities in the city such as applying discretionary rate rebates to low carbon buildings
- Advocating for code amendments to support low carbon buildings and urban design
- Encouraging sustainable student accommodation, such as the recently build Global Student Accommodation (GSA) building
- Promoting the use of locally purchased materials
- Upgrading infrastructure in Rundle Mall to be more climate smart, including increasing shading, bench spaces and water sources and changing the paving to a lighter colour
- Advocating for an Environmental Standards Levy to replace the Open Space Levy for the CBD

What is council's role in supporting these actions?

The AEDA expressed that council's role is to support other organisations such as Cooperative Research Centres (CRCs), and to advocate for electrification of public transport.

What are the barriers and knowledge gaps?

The AEDA identified several barriers to effective emission reduction in the city.

- The City of Adelaide facilitates many pilot projects such as the Cool Roads project. However, these rarely get through to the procurement policy stage. How can these pilots be translated into more meaningful and ongoing outcomes for the city?
- Global supply of electric vehicles is hindering uptake
- The cost of electric vehicles and other sustainability initiatives makes climate action a social equity issue. The benefits of low carbon initiatives need to be shared with everyone.
- Active change needs to be balanced with messaging and storytelling
- The Planning and Design Code low carbon policies are not mandated or well-regarded by developers. These could be better implemented to better enable a low carbon future
- Action and a sense of urgency is currently lacking
- Promotion of climate initiatives in the local community and local sectors needs to be improved

How can the Low Carbon & Circular Economy team assist?

The AEDA explained that the Low Carbon & Circular Economy team can best assist in reducing emissions by converting pilot projects into ongoing change, and continuing the educational component of the Carbon Neutral Adelaide initiative.

Climate Action Planning Engagement – City Culture Internal Workshop

Tuesday 8 March 2022

Attendees:

- AD City Culture
- Manager City Experience
- Manager City Lifestyle
- Team Leader Place & Event Experience
- Team Leader City Events
- Team Leader Community Lifestyle
- Centre Manager Aquatics Centre
- Team Leader Libraries
- Project Lead Creative City
- Program Admin Assistant City Culture
- Senior Policy Planner
- Senior Sustainability Advisor

Venue: City of Adelaide

Objectives and format of the engagement

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The information gathered at the workshop with the City Culture team is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The City Culture team explained that emission reductions could be achieved in the following areas of their work:

- Wellbeing dashboard
- Welcoming Cities program
- Aquatic Centre
- Libraries programs
- Community Centres

Which two of these areas have the most potential to cut emissions?

The City Culture team identified “Championing Climate Action” as a key way they could contribute to the City of Adelaide’s emissions reduction goals. Their discussion centred around sharing community actions, engaging new migrants and using existing platforms and groups to progress emission reduction goals. They identified the following methods of action:

- Supporting strong, active residents’ groups such as the South West, South East and Christies Walk Residents Groups
- Hosting workshops at libraries and community centres, including targeted sessions as part of the migrant induction process
- Running welcome days in response to community needs, such as Welcoming Cities events in partnership with Welcoming Australia
- Sharing good news stories related to climate action with the community
- Using the Next Wellbeing Dashboard to capture how people’s contribution to the community and community climate action affects wellbeing

The team also identified opportunities to collaborate with and magnify community climate action including:

- Exploring opportunities to test and trial shared battery hubs between neighbours, in a similar fashion to the community battery in Yackandandah. Christie Walk was identified as an appropriate location for the battery
- Supporting shared solar for apartments, for example in Hurtle Square
- Exploring opportunities to promote green transport into the city for events, including cooling options
- Running educational programs for migrants, who often do not know a lot about climate and sustainability and would appreciate the opportunity to learn more
- Improving waste services through the parklands, including green waste and recycling collection

What is council’s role in supporting these actions?

The City Culture team explained that leading emission reductions for council assets that are used by the community such as libraries and community centres should be a central role of council. They also identified that council could advocate for changes in community behaviour.

What are the barriers and knowledge gaps?

The City Culture team questioned whether the electricity paid for council's leased buildings such as the City Library is considered part of the City of Adelaide carbon footprint.

How can the Low Carbon & Circular Economy team assist?

The City Culture team explained that the Low Carbon & Circular Economy team could assist the City Culture team through collaborating on educational programs and sharing good news stories and climate information for the City Culture team to share with the wider community.

Other comments

The City Culture team also discussed the impact of warming temperatures and changing weather patterns on people's behaviours in the city and the way they use council services. They identified the importance of cooling commonly used spaces such as city streets and providing a balance between the cooling effects of irrigated green space and remnant vegetation in the parklands.

They also provided positive feedback on the internal bin roll-out.

Climate Action Planning Engagement – Community Leasing Workshop

8 March 2022

Attendees:

- Team Leader Community Lifestyle
- Community Leasing Coordinator
- Community Leasing Coordinator
- Centre Manager Aquatic Centre
- BUF Central Facilitator
- Senior Sustainability Advisor
- Senior Policy Planner

Venue:

City of Adelaide

Objectives and format of the engagement

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The information gathered at the workshop with the Community Leasing team is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The Community Leasing team explained that emission reductions could be achieved in the following areas of their work:

- Reviewing the Parklands Building Guidelines

- Reviewing the Parklands Lease and Licence Policy
- Upgrading existing buildings to reduce emissions
- Ensuring new builds reduce emissions (e.g. Adelaide Community Sports and Recreation Association (ACSARA))

What are the opportunities to reduce corporate emissions?

The Community Leasing team identified the following opportunities to reduce the City of Adelaide's corporate emissions:

- Using tools such as the Green Star system to set standards for buildings and infrastructure
- Integrating energy efficiency into policy, for example implementing an incentivised fee structure for signing up to renewable energy
- Approximately 50 parkland facilities are currently not fit-for-purpose; sustainability needs to be a core objective when these buildings are upgraded or replaced

What are the opportunities to reduce community emissions?

The Community Leasing team identified the following opportunities to reduce community emissions in the City of Adelaide:

- Informing groups on public land about the environmental, social and economic benefits of using renewable energy
- Encouraging parklands groups to use renewable energy through a range of opportunities including coming on to the City of Adelaide's renewable energy contract, supporting shared renewable energy arrangements, implementing incentives for lessees who use renewable energy contracts, collaborating on an electricity contract with ACSARA, and partnering with CORENA to provide interest free loans for solar installation
- Providing support to ensure new buildings are climate smart and reduce emissions, for example reviewing plans for new building layouts
- Implementing a Green Star standard for buildings
- Auditing the energy use of tenants to help them to increase their energy efficiency (note the pavilion has recently done energy audit)

What is council's role in actioning these opportunities?

The Community Leasing team explained that transitioning climate considerations from voluntary guidelines into mandatory policy would be one of the most effective actions Council could take to action these opportunities.

They also identified several other ways for council to action these opportunities:

- Supplementing mandatory policy with additional recommendations for new builds and building upgrades to encourage them to be as sustainable as possible
- Improving the sustainability of the buildings Council owns, including upgrades such as solar and rainwater tanks

What are the barriers and knowledge gaps?

The Community Leasing team recognised that there are a range of barriers and knowledge gaps for reducing corporate and community emissions including:

- Heritage, tree canopy and roof structure issues can hinder development approval for solar panels
- Good intentions for new builds do not always translate into adequate outcomes. For example, while the new ACSARA facilities and Comets in Park 24 intended to be highly sustainable, State Government grant funding deadlines resulted in the rushing of designs and the loss of the proposed star rating
- Expert advice is required to make environmentally sustainable design decisions in building upgrades – clubs, especially small clubs, do not have this knowledge
- Finance is a major barrier, and environmentally sustainable design is often the first feature to get cut. The pressures on the building industry have raised the costs of building, further disincentivising clubs to spend more upfront for sustainability upgrades despite long term savings
- Community clubs have a perception that sustainability aspirations such as solar panels, rainwater tanks, glazing, insulation etc. mean higher costs, and often expect council to fund these installations

How can the Low Carbon & Circular Economy team assist?

The Community Leasing team believe that finance is currently the biggest barrier for making buildings sustainable. Therefore, they suggested that the Low Carbon & Circular Economy team can best help reduce community leasing emissions by partnering with the Community Leasing team to take the following actions to address this barrier:

- Assisting with incorporating sustainability/low carbon requirements into policies to make them compulsory. This will ensure sustainable designs will not get cut due to high costs.
- Providing a finance mechanism such as BUF or CORENA to help community groups to afford the up-front costs of sustainable designs
- Share case studies of development that exceeds minimum quality standards without extra costs (for example glazing, shading, insulation and solar) with community groups

The Community Leasing team also suggested that the Low Carbon & Circular Economy team could help by reviewing building design plans to check sustainability requirements have been met and to suggest improvements.

Climate Action Planning Engagement – Infrastructure Workshop

9 March 2022

Attendees:

- Project Coordinator
- Project Manager
- Project Manager
- Project Manager
- Project Manager
- Project Coordinator
- Team Leader Infrastructure Assets
- Asset Manager Stormwater
- Asset Manager Urban Elements & Parklands
- Lead Asset Manager Buildings
- Assets & Business Systems Analyst
- Assets & Business Systems Analyst
- Asset Intelligence Coordinator
- Senior Transport Planner
- Asset Planner Stormwater & Footpaths
- Utilities Operations Analyst
- Asset Manager footpaths
- Asset Planner Roads & Bridges
- Senior Transport Planner
- Team Leader, Strategic Asset Management
- Principal Civil Engineer
- Team Leader Engineering
- Civil Engineer
- Transport Engineer
- Civil Engineer
- Senior Stormwater Engineer
- Manager Technical Services
- Design Drafter
- Landscape Architect
- Landscape Architect
- Design Drafter
- Program Administration Assistant Infrastructure
- Asset Planner Lighting, Electrical, CCTV & Traffic Signals
- Urban Designer
- Team Leader Technical Design
- Project Manager
- Development Engineer
- Asset Planner Lighting, Electrical, CCTV & Traffic Signals
- Civil Drafter
- Senior Technical Designer
- Senior Sustainability Officer
- Senior Policy Planner

Venue:

City of Adelaide

Objectives and format of the engagement

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The information gathered at the workshop with the Infrastructure team is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The Infrastructure team explained that emission reductions could be achieved in the following areas of their work:

- Footpath review
- Forwards works plan
- Technical standards and operational issues review
- Strategic property review, including for short and long term assets, opportunities to divest/upgrade/develop properties, and opportunities for UParks

What are the opportunities to reduce corporate emissions?

The Infrastructure team identified the following opportunities to reduce the City of Adelaide's corporate emissions:

- Including carbon in Council's technical standards
- Considering whole of life embodied carbon assessments as well as whole of life costs
- Reducing whole of life costs, for example using more concrete footpaths which have less ongoing maintenance requirements and expenses
- Changing behaviours for staff commuting, including consideration of incentives for low carbon transport options

- Using green concrete instead of common concrete, a key low emissions technology identified in the Australian Government's Technology Investment Roadmap for achieving Australia's international climate commitments
- Working with manufacturers who are reducing the carbon content of their products to keep government contracts
- Progressing the proposal to change the 30% of the City of Adelaide's public lighting owned by SA Power Networks to LED
- Continuing the ongoing LED street lighting renewal project aligned with the City Deal over the next 5 years
- Exploring opportunities for carbon farming

What are the opportunities to reduce community emissions?

The Infrastructure team identified the following opportunities to reduce community emissions in the City of Adelaide:

- Facilitating a transition towards electric vehicles, public and active transport
- Advocating for more sustainable public transport, including increasing use of 'on demand' public transport, reducing off peak public transport, and transitioning to smaller, quieter, electric buses
- Reviewing whether a 100 year timeframe is still suitable for city assets, or if a 30 year timeframe would be more appropriate
- Challenging the prevailing single-use perspective of infrastructure; for example, curbs can function for more than simply vehicle control, they can also be used for other purposes such as stormwater management
- Incorporating stormwater reuse and retention in building development, such as larger rainwater tanks plumbed into building, to avoid the need to upgrade stormwater infrastructure to cope with increased storm intensity in the future
- Partnering with industry and suppliers early in pilot/demonstration projects
- Partnering with IPWEA to drive improvements across the infrastructure industry
- Overcoming the perception that environmentally sensitive projects cost more to maintain

What is council's role in actioning these opportunities?

The Infrastructure team identified four roles for council to action these opportunities:

- Advocating to State Government for better, more sustainable public transport
- Clearly documenting goals for pilot projects to ensure strong recommendations can be made from the project outcomes
- Considering intensity of future storms for stormwater management to future proof stormwater infrastructure, to avoid the need to regularly replace infrastructure
- Funding improved stormwater management and data capture to ensure council has better documentation of their current stormwater management infrastructure and increases the capacity of stormwater infrastructure to cope with 1 in 100 year events

What are the barriers and knowledge gaps?

The Infrastructure team identified the following barriers to reducing corporate and community emissions:

- There is a perception that low carbon infrastructure has additional maintenance and upkeep requirements and expenses
- There is a lack of demonstrated suitability of sustainable products in relation to their reliability, construction methodology and cost effectiveness
- There is a lack of understanding and data of post-COVID behaviours, for example relating to transport and energy use
- Existing economic models are based on significant car travel through the city and does not consider the impacts of future changes to transport systems
- Stormwater management needs to consider alternate mechanisms to adapt to increasing intensity of storms
- The speed of technology advancements results in significant uncertainty for the future and flexibility of planning and designs becomes increasingly important

They also identified several knowledge gaps including a lack of demonstrated suitability of sustainable products and a lack of easy methodology to undertake whole-of-life embodied carbon assessments.

How can the Low Carbon & Circular Economy team assist?

The Infrastructure team suggested several ways the Low Carbon & Circular Economy team could assist them to reduce emissions:

- Providing a library of resources that is easy to understand, can be used to review technical standards, and will support a transition towards making low carbon infrastructure business-as-usual
- Assisting with linking data into strategic plan objectives to help the Infrastructure team to implement long-term, permanent, low carbon infrastructure rather than temporary, maintenance-intensive, short-term infrastructure
- Assisting with pilot projects for low carbon opportunities, including accurately and methodically documenting goals, ensuring follow ups occur, and identifying lessons learnt to implement in future projects
- Reviewing the Forwards Works Plan
- Working together with the Infrastructure team on embodied energy aspects regarding procurement.

Climate Action Planning Engagement – Parklands and Sustainability and Low Carbon and Circular Economy Workshop

2 March 2022

Attendees:

- Manager Low Carbon and Circular Economy
- Principal Economy Advisor
- BUF Central Facilitator
- Resource Recovery Advisor
- Resource Recovery Advisor
- Resource Recovery Advisor
- Senior Sustainability Advisor
- Senior Sustainability Advisor (Biodiversity)
- Parklands Planner
- Parklands and Sustainability Coordinator
- Team Leader Parklands and Planning
- Senior Parklands Planner
- Senior Sustainability Advisor
- Senior Sustainability Advisor
- Manager Parklands and Sustainability
- Director City Shaping

Venue:

City of Adelaide

Objectives and format of the engagement

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The information gathered at the workshop with the Parklands and Sustainability and Low Carbon and Circular Economy teams is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The Parklands and Sustainability and Low Carbon and Circular Economy teams explained that emission reductions could be achieved in the following areas of their work:

- Carbon Neutral Strategy
- Resource Recovery (Recycling, Organics, Waste) Strategy and Plan
- Climate Change Risk Assessment Report
- Climate Change Risk Adaptation Plan
- Water Sensitive Cities Plan (adaptation and recycled water)
- Carbon Neutral Roadmap
- Integrated Biodiversity Management Plan (climate resilient plantings)
- Resilient East Adaptation Plan
- Greening targets
- Parklands Management Strategy (active transport and greening)
- Building Upgrade Finance
- Sustainability Incentives Scheme
- Employee Assistance Program (EAP)
- Electric vehicles for the corporate fleet
- Electric vehicles support for the community

What are the opportunities to reduce corporate emissions?

The Parklands and Sustainability and Low Carbon and Circular Economy teams identified the following opportunities to reduce the City of Adelaide's corporate emissions:

- Transitioning council's building stock to low carbon uses, for example repurposing UParks
- Electrifying council's buildings, for example the aquatic centre
- Reducing council's transport emissions by electrifying the council fleet and reinstating public transport discounts for staff
- Doubling the capacity of the recycled water supply (GAP) to enable more irrigated areas and increase tree canopy in the parklands to cool the city
- Auditing council emissions more comprehensively to determine where the greatest emission abatement potential lies, for example breaking waste emissions down into volume of waste, transport of waste etc.

What are the opportunities to reduce community emissions?

The Parklands and Sustainability and Low Carbon and Circular Economy teams identified the following opportunities to reduce community emissions in the City of Adelaide:

- Ensuring a consistent, holistic and long term approach is taken to sustainability for building developments

- Responding to the shift to working from home by repurposing existing city buildings, encouraging multiple companies to share one office space, reducing emissions in the home, and investigating other impacts of less city office use
- Investigating using a percentage of rates to incentivise businesses to buy green power
- Investigating solar power sharing and group offsetting opportunities
- Using Carbon Neutral Adelaide partners' momentum to drive community action
- Encouraging the culture change of companies seeking the branding benefits of green credentials, for example the 6 green star Women's and Children's Hospital
- Creating policies that set emissions benchmarks for tenants
- Supporting electric vehicle uptake, including investigating low emission zones where high emission vehicles are restricted, providing more EV charging services including bi-directional chargers, and holding "drive-an-EV" events rather than "touch-a-truck" events to demystify EVs and encourage people to invest
- Changing street layouts to prioritise active/public transport
- Advocating for other businesses to offer public transport to staff

What is council's role in actioning these opportunities?

The Parklands and Sustainability and Low Carbon and Circular Economy teams explained that policy, advocacy, partnerships and innovation could be council's key roles in actioning these opportunities:

- Improving policy to create mandatory ESD guidelines and minimum standards for buildings
- Leading by example through effective and consistent emission reductions, with strong, authentic marketing of achievements to others
- Driving a culture change around emissions
- Partnering with other councils and businesses to 'scale up' actions
- Leading innovation

What are the barriers and knowledge gaps?

The Parklands and Sustainability and Low Carbon and Circular Economy teams identified a range of barriers to these actions including:

- Culture change takes time, and there will always be those who resist change
- It is difficult to drive consistent action until council comes to a stated position on a topic
- Conflict exists between different drivers of different parts of council
- Timeframes are longer than we are currently considering

They also identified a lack of understanding on the opportunities and barriers regarding council's role in electric vehicle charging services as a knowledge gap.

How can the Low Carbon & Circular Economy team assist?

The group explained that the most important actions the Low Carbon & Circular Economy team can take include:

- Driving strong action on the changes that make the biggest differences and are a 'must', and focusing less on the small, less effective changes at this point

- Being clear on messaging and education of council and ratepayers about the benefits of emission reductions and the importance of reducing embodied carbon
- Sharing examples of actions by other councils with City of Adelaide staff and leaders

Climate Action Planning Engagement – Planning Workshop

15 March 2022

Attendees

- Senior Policy Planner
- Senior Policy Planner
- Senior Social Planner (A&I)
- Team Leader Social Planning & Reconciliation
- Team Leader City Policy
- AD Parklands Policy & Sustainability
- Senior Policy Planner (A&I)
- Manager Low Carbon and Circular Economy
- Senior Sustainability Advisor

Venue

City of Adelaide

Objectives and format of the engagement

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The information gathered at the workshop with the Planning team is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The Planning team identified the 15-30 year City Plan as the central way in which planning staff can progress emission reductions. They also suggested investigating the future transport decisions of employees to identify how City of Adelaide staff could be encouraged to use lower carbon transport options.

What are the opportunities to reduce community emissions?

The Planning team's discussion centred around opportunities to support community emissions reductions, including:

- Considering how to ensure developers care more about the longevity of the building and occupant experience and less about short term profit
- Considering alternative ways of producing revenue from carparks
- Implementing temporary trials such as parklets and the bike lanes used in Melbourne
- Creating electric vehicle only parking zones
- Promoting the tangible benefits of travelling less, and supporting people to make changes such as moving into the city to reduce travel distance and time
- Implementing a behaviour change program similar to the State Government's Travel Smart campaign to encourage individual climate action
- Considering the ongoing impact of COVID on public transport use

What is council's role in actioning these opportunities?

The Planning team considered Council's role to include using hard levers to drive climate action. They explained that this could include setting a goal to make the city car free or electric vehicle only by 2030. The team acknowledged that meeting this goal would involve consideration of equity for those who do need cars, consideration of how to make this change politically appealing, and use of interim measures such as zones where car drivers have to pay to enter the city such as the model used in London.

Promoting the co-benefits of climate action through case studies that demonstrate both short-term and long-term co-benefits was another role the Planning team suggested council could take. The Planning team also identified advocacy to the State Government for changes to the Planning & Design Code and to implement better green transport links into the city as a role for council to play.

What are the barriers and knowledge gaps?

The Planning team explained that the Planning & Design Code is the biggest barrier to emission reductions from a planning perspective. They explained that the Code is currently inadequate in this regard and that buy in from all Local Governments to advocate for changes to the Code would make it much easier for the Planning team to enforce climate smart design.

The Planning team also identified several other barriers for effective emission reduction including:

- Diplomacy and advocacy have been tried and tested for over 30 years now and it is still not working; what big steps need to be made to make change happen?

- Sometimes there is lack of inertia because of the difficulty of processes and the length of steps involved to take action which relegates it the “too hard” basket
- There is often a lack of capacity to take action on climate change because other stresses and pressures of life (e.g. COVID, bushfires, flooding) take precedence. How do we reduce this stress and make it easier for people to consider climate change?
- People tend to focus on short term benefits and struggle to think in the context of longer timeframes
- It is important to ensure that everyone is held to the same standard and everyone takes action to ensure equity and fairness

They also explained that understanding true barriers to emission reductions beyond cost is a critical knowledge gap to fill in order to facilitate strong climate action.

How can the Low Carbon & Circular Economy team assist?

The Planning team identified that the Low Carbon & Circular Economy team could best support them through provision of better data to demonstrate changes in emission profiles.

Climate Action Planning Engagement – Property Workshop

8 April 2022

Attendees

- Senior Advisor, Corporate & Commercial Property
- Project Manager, Property Strategy
- Manager, Property Development
- Lead Asset Manager Buildings

Venue

City of Adelaide

Objectives and format of the engagement

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The information gathered at the workshop with the Property team is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

The Property team explained that emission reductions could be achieved in the following areas of their work:

- Property management: corporate, commercial and residential
- Commercial property: development, strategy, and projects including the Central Market Arcade redevelopment and strategic property review
- Asset manager: across their diverse asset portfolio including the Town Hall, Market Arcade and pumping stations

What are the opportunities to reduce corporate emissions?

The Property team identified replacing the singular technical standard for Council buildings with multiple technical standards that are applicable to diverse building types as the best way to reduce corporate emissions.

What are the opportunities to reduce community emissions?

The Property team identified a range of opportunities to reduce community emissions in the City of Adelaide:

- Using the influence the City of Adelaide has over the Ergo apartment complex as the owner of 20 of the 70 apartments to assist the strata community with the process of shared solar investment
- Using the control council has to ensure the redevelopment of the bus station site between Grote and Franklin Street, which will likely be residential, will consider climate and be as sustainable as possible
- Helping strata communities access the SIS
- Ensuring the proposed Aquatic Centre does not use gas and builds on the learnings and mistakes of the old Aquatic Centre
- Communicating better internally about what climate actions council is taking now and into the future
- Undertaking a strategic property review process
- Working with the markets, which are already helping push sustainability outcomes
- Ensuring good design decisions for property are made early in the process to reduce long term carbon emissions
- Creating a checklist that is easy to use to assess the sustainability of developments

They believed shared solar for the Ergo Apartments, the redevelopment of the bus station, and involvement of the sustainability team in property are the top priority actions.

What is council's role in actioning these opportunities?

The Property team explained that Council needs to work with developers to progress the City of Adelaide's carbon neutral status. This will involve ensuring that development applications are assessed with sustainability outcomes in mind, and checking developer's detailed designs throughout the process to ensure promises are carried through.

What are the barriers and knowledge gaps?

The Property team identified the following barriers and knowledge gaps for these actions:

- The remaining use of gas in council buildings including the Aquatic Centre, Market square and other buildings with gas boilers remains a barrier to reducing emissions
- Sustainability standards for developers are voluntary rather than set in council requirements, resulting in many trade-offs in negotiations
- Upgrades for business tenants are negotiated and do not come under the expense lines or leasing
- Business tenants such as UPark tenants are very small businesses who do not have the capital for solar and tend to not plan for the long term

- Carrying through intentions from concept to design to development is a key challenge

How can the Low Carbon & Circular Economy team assist?

The Property team explained that the Low Carbon & Circular Economy team can best assist by getting involved in property projects early to ensure climate considerations are embedded from the initial design phase. Properties including the bus station redevelopment, Arcade developments and other retail properties were listed as particular areas where the Low Carbon & Circular Economy team can get involved.

Using checklists and sharing interstate best practise were other ways the Property team believe the Low Carbon & Circular Economy team could help them to reduce emissions associated with properties in the City of Adelaide.

Climate Action Planning Engagement – Transport Workshop

1 March 2022

Attendees:

- Senior Sustainability Advisor
- Senior Transport Planner
- Team Leader Off Street Parking Services
- Manager Infrastructure Planning
- Senior Transport Planner
- Manager Waste Cleansing and Trades

Venue:

City of Adelaide

Objectives and format of the engagement

The City of Adelaide is currently in the process of developing its 2022-2025 Climate Action Plan. Council hopes to use this plan to harness the community's momentum and build on what has already been achieved by the Carbon Neutral Adelaide initiative to further reduce council and community emissions.

The City of Adelaide Low Carbon & Circular Economy team has been working with engagement specialists URPS to deliver an engagement process to gather input to the new Climate Action Plan. This engagement has been with external stakeholders and broader community as well as internally with different teams from within Council.

The Low Carbon & Circular Economy team has led the delivery of a series of internal workshops to gather feedback on which actions should be prioritised in the Climate Action Plan. At these internal workshops, the context for the project was provided including a summary of climate change trends, the City of Adelaide's climate ambition, and the status of internal and external engagement. A discussion followed regarding the ways the team's work could be changed or utilised to cut carbon emissions. A mind mapping exercise was used to explore opportunities for reducing corporate and community emissions, the barriers and knowledge gaps to actioning these opportunities, and ways the Low Carbon team could support these actions.

The information gathered at the workshop with Council's transport staff is summarised below.

Summary of discussion

In which areas of your work can we progress our ambition to cut carbon emissions?

Transport staff explained that emission reductions could be achieved in the following plans, strategies and other areas of their work:

- Zero Emission Vehicle Plan
- Resource Recovery (Organics, Recycling, Waste) Strategy & Action Plan
- Cycling Infrastructure Strategic Action Plan

- Walking Strategy
- City Access Plan
- Citywide assessment of EV charging needs and support

What are the opportunities to reduce corporate emissions?

Transport staff identified the following opportunities to reduce the City of Adelaide's corporate emissions:

- Planning for the infrastructure required to support electric vehicle fleets
- Obtaining a Carbon Neutral certification for UParks
- Implementing car share permits through Flexicar (RAA)
- Supporting a mode shift for staff travel to work, for example public transport discounts, bike incentives etc.
- Increasing diversion of waste to recycling and organic compost to reduce reliance on landfill

What are the opportunities to reduce community emissions?

Transport staff identified the following opportunities to reduce community emissions in the City of Adelaide:

- Encouraging uptake of electric vehicles through:
 - Working with partners to increase coverage of on-street and off-street charging
 - Providing land to others to install charging infrastructure
 - Investigating the benefits of the Jolt model where chargers are installed for free with access to advertising
 - Producing renewable energy to support widespread electric vehicle use
 - Continuing the Neuron & Beam e-scooter trial
 - Investigating use of e-cargo bikes as a last mile option for the city
- Transitioning UParks to support electric vehicles including:
 - Transitioning UParks to service electric vehicles, including implementing demand management measures for both permanent and casual parkers
 - Using the data available from UPark Plus to better understand electric carpark use
 - Exploring opportunities for an offsetting scheme for UPark customers in the 22/23 budget
 - Investigating wayfinding infrastructure for UParks to help customers identify where parks are available
- Encouraging car sharing programs
- Considering the implications of autonomous vehicles uptake in the coming decades on the transport system

What is council's role in actioning these opportunities?

Transport staff identified four focus areas for council to support uptake of electric vehicles:

- Managing the infrastructure requirements of an electric fleet
- Servicing the community with public infrastructure for electric vehicles, including on and off-street parking
- Encouraging the installation of electric vehicle chargers on private property

- Investigating revenue potential for electric vehicle charging

They also suggested council could lower speed limits in the city to 30km/h to encourage active travel, which they believe would not have a major impact on overall travel times for cars.

What are the barriers and knowledge gaps?

Transport staff identified the following barriers to action to encouraging uptake of electric vehicles:

- Electric vehicles are not always environmentally beneficial from an overarching sustainability point of view
- Electric vehicles do not solve congestion issues
- The market availability of electric vehicles especially for trucks and Utes remains a constraint for transitioning the internal fleet
- Apartment dwellers are unable to install their own electric vehicle charging infrastructure
- Low carbon travel plans and strategies are announced but not always achieved or implemented

They identified several barriers to supporting active transport:

- Installing wider footpaths and bike lanes reduces on-street parking capacity and results in a loss of parking revenue which accounts for more than 25% of overall council revenue
- Cycling lanes disrupt loading zones for businesses
- Elected Member and Executive support is needed for an active transport transition, and the City Access plan draft is currently not well supported

Transport staff also identified limited data on ride sharing and how people currently travel to the city as a knowledge gap.

How can the Low Carbon & Circular Economy team assist?

Transport staff explained that the Low Carbon & Circular Economy team could assist in reducing transportation emissions by partnering with the Transport team, the State Government and Optus on data capture. They would also like the Low Carbon & Circular Economy team to facilitate internal and external engagement around low carbon transport options and modes such as car sharing.

SHAPING
GREAT
COMMUNITIES

