

General Climate Change initiatives

Project	Outcomes	Lead Department	Status
Urban greening initiatives	Raingardens Successful grant application to the Environment Protection Authority to contribute toward the creation of a new raingarden and interpretive trail. Amongst a range of benefits, plants within the raingarden help cool urban heat through creating cooler micro-climates.	City Assets & Strategy	Completed
	Growing trees in challenging spaces Successful grant application to the Greener Neighbourhoods funding program to enable the development of a suite of detailed designs for growing trees in challenging spaces. Applying the new designs and associated planting preparation will enable council to improve the growth of its trees, develop an improved tree canopy and as a result reduce urban heat.	City Assets & Operations Horticulture	In progress
	Tree Strategy Council's Tree Strategy includes a range of actions aimed at improving urban greening and building resilience to climate change. It contains information on tree species, planting and maintenance, and actions to develop a sustainable urban forest.	Operations-Horticulture	Implementation phase
	Greening Council's shared path network More landscaping and trees have been planted along the Westside Bikeway. This helps encourage people to use low carbon forms of transportation/movement, as well as improve biodiversity habitat, and create shading and cooling.	Operations - Horticulture	Ongoing
	Street Tree Audit An audit has been undertaken of council's trees which will provide information on each street tree, its growing conditions, as well as identify gaps in the streetscape where additional trees and other green cover could potentially be planted. This information will then be used to determine the vulnerability of species to the effects of climate change, which will then help inform future tree planting programs.	Operations - Horticulture	Almost complete

	<p>Choice of Plants/Planting</p> <p>The choice of plants is focussing on those that are better able to tolerate heatwaves as well as those that are diverse pollinators. In addition, trees are planted with better soil construction to improve their chances of surviving and thriving.</p>	Operations - Horticulture	Ongoing
	<p>Streetscape Designs</p> <p>Methods are being trialled to improve the growing conditions of streetscape vegetation and standard designs are being developed for capital road projects. The aim is to improve tree growth and reduce road infrastructure maintenance. This will help improve the environmental sustainability of streetscapes, reduce the carbon footprint, and improve the financial sustainability of assets.</p> <p>Example of methods being used in many streets to maximise access to water, improve growing conditions and reduce urban heat:</p> <ul style="list-style-type: none"> • Permeable paving - stormwater seeps through the spaces between the pavers into the soil to improve stormwater management and to provide water to plants • Brick paving along footpaths increases infiltration and improves soil moisture • Tree inlets and water wells direct stormwater to the tree roots • Raingardens 	Assets	In progress
Public Realm Design Manual	<p>The Public Realm Design Manual sets out a pro-active approach to managing the City's tree and vegetation assets in response to climate change by experimentation and monitoring of new species to test suitability for climate change, planting trees for canopy cover and creation of micro climates, and planting programs that incorporate species diversity throughout the city.</p> <p>The Manual also sets out aspects of designing spaces for pedestrians, cyclists and motorists to help encourage low carbon forms of transportation and movement.</p>	Strategy lead - council-wide collaboration	Design Manual has been produced, now implementation phase

General Climate Change initiatives

Stormwater initiatives	<p>Water in the landscape</p> <p>Several methods are being used in many streets to maximise access to a sustainable source of water in order to increase permeability and soil moisture to encourage deep root growth and stable trees, as well as creating a cooling effect. Examples of methods include:</p> <ul style="list-style-type: none"> • Permeable paving to enable stormwater to seep between the pavers to support healthy vegetation growth and tree canopies; • Footpath brick paving to increase infiltration, improve soil moisture and create healthier growing conditions and tree canopy; and • Tree inlets and water wells to direct stormwater to the tree roots. 	Assets	In progress
Recycled printer cartridge trial - Mortimer Street road reconstruction	A sustainable approach to reconstructing Mortimer Street was undertaken involving the use recycled printer toner and reuse of old road pavements. This approach makes the project the most sustainable pavement reconstruction project undertaken to date by the City of West Torrens resulting in a significant carbon reduction impact, saving CO ² greenhouse gas from entering the atmosphere, decreasing the use of virgin natural resources and preventing materials from entering landfill.	Assets	Complete
West Torrens Local Drainage Stormwater Management Plan	Preparation of the Stormwater Management Plan involves assessing the projected climate change scenarios to understand the likely impacts for flooding within the catchment and the performance requirements of council's stormwater systems. A series of flood maps are then produced to help understand the implications of that flood risk and to develop strategies to prepare and adapt to the projected climate change impacts (increased storm intensity, sea level rise) on a variety of scales (site to catchment scale). This project also includes the analysis of opportunities for the harvest and use of stormwater and water quality improvements overlay, as water quality can often be achieved in manners which also contribute to greening and cooling of neighbourhoods.	Assets	In progress
Planning and Design Code - green cover	Staff are providing comment on the draft Planning and Design Code to the Planning Commission - focusing on the importance of providing green cover and permeable land within private allotments, and providing greater protection for trees from development.	Strategy, City Assets & City Development	In progress

General Climate Change initiatives

Development Assessment	Staff assess development applications against the West Torrens (Council) Development Plan and National Construction Code which include policies addressing climate change mitigation and adaption, including topics on urban densification, flood hazard management, coastal hazard management, green space, conservation of trees and native vegetation, urban heat island effect, water sensitive urban design, energy efficiency and active transport. Staff also discuss with community members and applicants additional opportunities to improve the climate performance of proposed development.	City Development	Ongoing
Solar Panel Rebate Program for Community Groups	Rebates are available to eligible community groups for the purchase and installation cost of solar panels on buildings that they occupy that are situated within West Torrens. Rebates are scaled based on the size of solar system installed, up to a maximum of \$3,000. Two applications have been received to date for 2019/20, these being for a 10kW solar system, and one for a 30kW solar system.	Strategy	Ongoing
Residential Rainwater Tank and Rain Garden Rebates.	Rebates are available to eligible residents for the installation of rainwater tanks to reduce mains water consumption and reduce pollutants entering the stormwater system. Rebates are based on a sliding scale up to \$500. An additional rebate of \$200 is also available for rainwater tanks which are plumbed into new developments or extensions. Twenty-one rainwater tank applications have been received to date for 2019/20, with a combined capacity of 57,394 litres this financial year.	Strategy	Ongoing
Solar installations on Council owned buildings	There are currently sixteen solar systems installed on council owned buildings. In 2013 these systems generated over 100,000 kWh of renewable electricity, and abate around 61 tonnes of CO ² -e per annum.	Strategy	In progress
GreenPower	10% GreenPower was purchased for above 160 sites up until 2017. Since then, GreenPower has not been purchased due to increased costs associated with electricity prices.		

General Climate Change initiatives

Emergency Management Framework and Emergency Management Operations Plan	<p>The City of West Torrens Emergency Management Framework contains strategic information relevant to local government and the CWT. The structure of this framework mirrors the structure of the SEMP and contains information and actions relevant to Council across the spectrum of prevention, preparedness, response and recovery. The framework sets the structure for CWT's emergency suite of documents and incorporates a full five year assurance plan.</p> <p>The CWT Emergency Management Operations Plan has a strong focus on CWT's immediate response to an emergency. It sets out the Incident Management Team (IMT) and explains roles and responsibilities. It is a functional and guiding document as opposed to a policy or framework.</p> <p>This document has been completely reviewed with stakeholders and training workshops have been conducted with the IMT.</p>	Resilience	Completed
Business Continuity Plan	<p>The CWT Business Continuity Plan contains the CWT critical functions to ensure the continued achievement of critical business objectives during disruption. It is the third document in the suite of emergency management documents.</p> <p>This document has been completely reviewed with stakeholders with testing incorporated. The documents is awaiting executive approval.</p>	Resilience	In progress
Hazard Plan Review	<p>The CWT has numerous Hazard Plans each attached to a comprehensive hazard risk assessment for our community. The first of these plans for review was the Flood and Extreme Weather (Storm) Hazard Plan.</p> <p>The Flood and Extreme Weather (Storm) Hazard Plan provides the relevant prevention and preparedness actions, recovery strategies and requirements when the organisation is confronted by Storm and Flood situations. This document has been completely reviewed with stakeholders and approved by the Executive.</p> <p>Further hazard plans will be reviewed in 2020.</p>	Resilience	In progress
Incident Management Team Coordination	<p>The CWT Incident Management Team (IMT) has been formed to lead in the event of an incident or emergency. Workshops, which include scenario testing, have been conducted so each IMT member is aware of their roles and responsibilities.</p>	Resilience	Completed

General Climate Change initiatives

Council Commander and Council Liaison Officer Training	The Council Commander and three (3) Council Liaison Officers have received external training from the LGA Emergency Management Unit. This training will better equip these employees in the event of an emergency.	Resilience	Completed
i-Responda training	Depot employees have been trained in i-Responda emergency management principles which provide a highly operational approach to managing emergencies and events. These employees have also participated in additional or expanded i-Responda courses to provide skills in flood and fast moving water.	Resilience	Completed
Emergency Warning and Communication System	System is being developed to communicate to all staff by text message during and after an emergency or incident. This system will replace existing informal systems including phone and email communication trees.	Resilience	In progress
Coping in the Heat	<p>Community and vulnerable residents throughout summer through the CHSP program and the Hamra Centre Library. The Resilience team will also attend two (2) Summer Festival events in early January to provide further information and bags to the community.</p> <p>This will be supported by a Talking Points article in the February edition where the community can read about strategies to cope in the heat. Other media including Facebook and the CWT website have also been used to promote Coping in the Heat messaging, risks and tactics.</p> <p>A Coping in the Heat workshop is scheduled for 24 January 2020 and will be run in conjunction with the SES. This event will be free of charge and advertised in January.</p>	Resilience	In progress
Red Cross RediPlan Sessions	<p>Red Cross RediPlan sessions are aimed all community members and promote emergency preparation. These measures include emergency plans, medical plans and ensuring sufficient food and water is available. These sessions are delivered by Red Cross volunteers directly to the community.</p> <p>Two (2) sessions have already been presented to community groups. Two (2) sessions are scheduled for January 2020 for CWT employees.</p>	Resilience	In progress

General Climate Change initiatives

Multi-Council Earthquake Exercise	<p>The Western Adelaide and Northern Adelaide Zone Emergency Management Committees held a joint earthquake exercise in September 2019. CWT were members of the organisation committee and worked with five (5) other councils and the LGA Emergency Management Unit to facilitate an earthquake scenario exercise focusing on recovery.</p> <p>There were approximately 70 participants with 8 attending from the CWT. Participants varied in technical expertise and understanding of emergency management.</p>	Resilience	Completed
Business Resilience Breakfast	<p>A free business breakfast focusing on resilience was held in September 2019. This attracted 50 local businesses from the area who heard SAPOL present on the business related outcomes of the 2016 black systems event (blackout).</p> <p>This breakfast also provided an opportunity to listen to a 'real life' example of business resilience from Paul Clark of Kersbrook Hill Wines who provided his detailed and harrowing story of the Sampson Flat bushfires devastating his business, how he has recovered and his tips for better business resilience.</p>	Resilience	Completed
Little Day Out	<p>The Resilience team attended a Little Day Out School Holiday event in April and utilised the Red Cross to facilitate several Pillow Case Project sessions. The Pillowcase Project aims to educate children in a non-threatening environment about emergency preparedness and what they can do to assist their families if they need to evacuate or prepare for an incident.</p> <p>These sessions ran throughout the afternoon and involved approximately 45 children.</p>	Community Services	Completed
Community and Resilience Action Plan	<p>A Community Resilience Action Plan is currently being drafted to provide actions for the CWT in order to build the community's resilience.</p> <p>This is being drafted in consultation with the LGA's Council Ready team and will involve stakeholders across Council in due course.</p>	Resilience	In progress
CWT Recovery Plan	<p>A CWT Recovery Plan is currently in progress in consultation with the LGA Council Ready team. This project will involve stakeholders across the CWT and will seek to facilitate a smoother transition from the response phase of an incident to the recovery phase.</p>	Resilience	In progress

General Climate Change initiatives

LED Street lighting upgrade	The option to upgrade public street lighting with more efficient LED's is being investigated. LED lights offer a reduction in greenhouse gas emissions and lower ongoing energy costs while providing an opportunity to redesign the light network to move towards the Australian Standards and enable smart lighting solutions. This project is expected to result in the abatement of around 634 tonnes of greenhouse gas emissions per annum.	Assets	In progress
LED Linear Parks, Pathways and Reserve lighting upgrade	Replacement and upgrade of the existing reserve/open space, linear parks (+ shared pathway) and facilities lighting from metal halide / sodium type fittings to LED type fittings	Urban Services	Ongoing
Sustainable Procurement	The LGA has prepared a listing of sustainable product suppliers which are being considered as part of the procurement process and current level of green purchasing across the Administration. This project will look at integrating sustainable procurement into policy, market documents, templates and strategy as sustainability forms part of the value for money consideration in evaluating tender submissions, rather than being a separate and supplementary consideration.	Procurement	In progress
Sports Floodlighting	Use of LED technology for all new oval/court floodlighting; planned conversion of all existing halogen floodlighting to LED (Council assistance to clubs in seeking grant funding etc).	Urban Services	Ongoing
New/Upgrade Buildings+ Facilities	Building design cognisant of environmental factors - e.g. siting, shading, overhangs etc to minimise heat effects/impacts. All new buildings to provide solar systems/battery, rain water tanks, light sensors, air conditioning / mechanical services types + timers	Urban Services	Ongoing
Fleet - New & Replacement	Heavy vehicles compliant with the latest European Standards (emission control), Hybrid + Plug-in Motor Vehicles, Fleet Replacement program to ensure all vehicles/fleet/plant & equipment are regularly replaced (i.e. no more than 8 to 10 years) to ensure latest standards.	Urban Services	Ongoing

General Climate Change initiatives

Waste Education	<p>Minimise waste going to landfill through education of the community, schools and at events including:</p> <p>Extensive waste and recycling content on council's website -</p> <ul style="list-style-type: none"> • Tips to reduce waste • A-Z search engine • Bindy the 'chatbot', the virtual assistant for waste and recycling • Recycling and Organics Videos • Waste Quiz <p>Community presentations including Composting and Worm farming workshops</p> <p>Sessions and resources for schools -</p> <ul style="list-style-type: none"> • Resource Recovery: What and Why? • Go for Green and Gold • Composting and Worm farming • Waste and recycling games for loan • Support for schools with waste management systems. <p>Waste education content on Council website and National Recycling Week activities.</p>	Regulatory Services	Ongoing
Waste reduction initiatives in council owned buildings	Council's operational facilities including the Civic Centre, Hamra Library and Depot have source separation systems for multi waste streams including soft plastics, 10c CDL containers, food organics, paper and general recycling.	Regulatory Services	Ongoing
Waste reduction initiatives at events on Council land	Waste from single use plastics have also been reduced at events with single-use plastics bottles no longer being used for Council run events for the Community. Compostable cups, plates and cutlery are also used at events.	Strategy and Business	Ongoing
Household Chemicals and paint facility	This project was undertaken in conjunction with Solo Waste Resource Recovery and Green Industries SA in building a facility at the transfer station, as a free drop off facility for household chemicals and paints.	Regulatory Services	Completed

General Climate Change initiatives

Native Bee BnB Hotels	As part of the River Torrens Recovery Project in conjunction with the Adelaide Mount Lofty Ranges Natural Resources Management Board, three native bee BnB's were installed along the River Torrens Linear Park in West Torrens. The initiative was a joint project between the eight councils along the River Torrens. Community members helped to build the native bee hotels at the 2018 Arbor Day community planting event in conjunction with Gardening Australia's Sophie Thomson and local native bee expert Dr Katja Hogendoorn. Educational signage was installed to promote the different types of native bees which can be found in the area.	City Operations and Strategy	Completed
Environment Grant Program	Through its Environment Grant Program, an annual budget of \$10,000 is allocated to community groups through a competitive application process to implement environment initiatives.	Strategy	Ongoing
Environment Sustainability Strategy	An Environment Sustainability Strategy is currently being developed. The strategy will be an overarching document which outlines the direction for key areas of environment sustainability including urban greening, waste management, water consumption and mitigation of greenhouse gas emissions. Where appropriate, specific targets will be set guide outcomes and measure performance.	Strategy	In progress
AdaptWest Climate Change Adaptation Program	West Torrens is working in partnership with the Cities of Charles Sturt and Port Adelaide Enfield to implement the AdaptWest in Action. A 3-year action plan was recently adopted by the participating councils to guide performance and outcomes.	Strategy	In progress
Water Management Plan	A review of Council's Water Management Plan is currently being undertaken.	Strategy	In progress
Carbon Management Plan and Carbon Footprint Report	A carbon footprint report is currently being developed. The carbon footprint aims to capture information regarding council's emissions across multiple sectors including energy, transport and waste. As part of the 2020/21 financial year, the development of a Carbon Management Plan is currently being considered.	Strategy	In progress