

13.1.1 SUSTAINABILITY IN ACTION 2023/24 REPORT

Author:	Sinead Bullock
Author's Declaration of Interest:	Nil
Previous Ref:	OCM 14 February 2023 (Resolution 5) OCM 22 October 2024 (Resolution 269)
Appendix:	1. Sustainability in Action 2023-24 Report [13.1.1.1 - 29 pages]

PURPOSE OF REPORT

For Council to note the Sustainability Action Plan 2023/24 Report, attached as Appendix 1 of this report, which is the first progress report on the City's plan, 'Sustainability in Action 2023'.

BACKGROUND

Council adopted its first Sustainability Action Plan in February 2023. The purpose of the Plan is to express the City's intention to minimise its environmental impact and to maintain and enhance existing environmental assets, to support a vibrant and sustainable community for the enjoyment of future generations. The Plan includes actions the City will take to progress towards a sustainable future and commits the City to report on the success of these actions and the City's corporate emissions on an annual basis.

Council also adopted its first Emissions Reduction Strategy in October 2024. The purpose of the Strategy is to analyse the City's corporate emissions profile and identify opportunities to reduce emissions, with a focus on the most emissions intensive activities. The Strategy details the cost and consequence of fourteen opportunities and highlights where further developments are required.

DISCUSSION

The Sustainability Action Plan includes statistics for the 2021/22 financial year, where available, as well as actions that address corporate and community outcomes under seven key sustainability areas; key achievements; case studies; and future plans or next steps.

The attached Report provides an update to the statistics as of 2023/24 and key achievements or progress against the Plan's actions since its adoption in February 2023, through to the end of 2023/24 (June 2024). New actions are also included in the Report.

Some notable achievements in the Report include new recycling hubs in City libraries and the Civic Centre; endorsement as a Gold Waterwise Council; energy efficient lighting upgrades; new solar on six of the City's facilities; the introduction of a nationally recognised Smart Drainage Program; development of a Bike Plan for the City; planting of an environmental corridor (including over 1,000 new trees) in Canning Vale; and the establishment of a new cat management facility.

The City's net corporate emissions have decreased significantly from over 6,000 tonnes CO₂ equivalent when the Plan was published with 2020/21 data, to 4,200 tonnes CO₂ equivalent in the 2023/24 Report (-32%).

FINANCIAL IMPLICATIONS

Nil.

STATUTORY IMPLICATIONS

Not applicable.

VOTING REQUIREMENTS

Simple Majority required.

STAFF RECOMMENDATION AND COUNCIL RESOLUTION
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OCM 2025/138 Moved Cr Serena Williamson Seconded Cr Glenn Dewhurst

That Council notes the Sustainability Action Plan 2023/24 Report, attached as Appendix 1 of this report.

Carried 13 / 0

FOR: *Cr Peter Abetz, Cr Aaron Adams, Cr Caren Baayens, Cr Kylie Dalton, Cr Glenn Dewhurst, Cr David Goode, Cr Saiful Islam, Cr Diane Lloyd, Cr Kevin McDonald, Cr Balli Singh, Cr Serena Williamson, Cr Emma Zhang and Mayor Teresa Lynes*

AGAINST: *Nil*

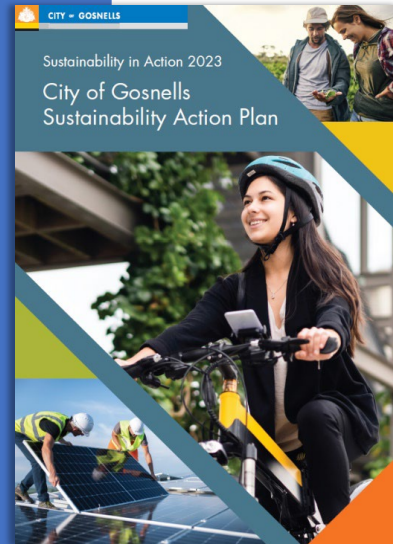
Sustainability in Action – 2023/24 Report

Introduction

The City's first Sustainability Action Plan was endorsed by Council in February 2023 and included statistics for the 2021/22 financial year where available.

This report details updates of actions that were taken in the remainder of the 2022/23 period and the full 2023/24 financial year, as well as the associated statistics for the same period.

Following the structure of the original plan, the report also includes new actions and achievements.



Setting

The City's first Sustainability Action Plan provides an overview of climate change and the global commitments to emissions reductions across different levels of government. This includes:

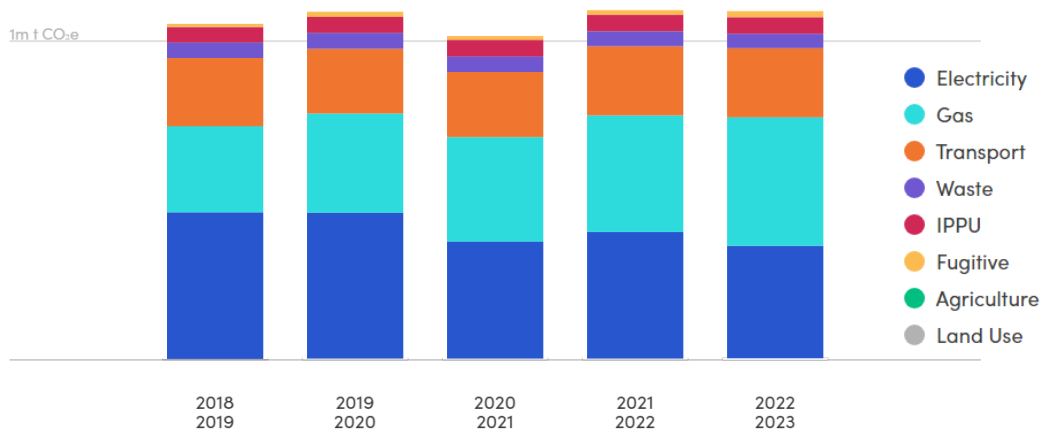
- the Kyoto Protocol that was adopted in 1997 and came into force in 2005;
- the Paris Agreement which was signed in 2015;
- the Western Australian Government commitment in 2020 to achieve net zero greenhouse gas emissions by 2050 and an emissions reduction target of 80% by 2030 for State operations; and
- Australia's Nationally Determined Contributions (NDCs) pledge in 2022 to reduce greenhouse gas emissions by 43% below 2005 levels by 2030.

Since publishing the initial Sustainability Action Plan, the Australian Government introduced the Net Zero Economy Authority Act 2024, which directs the Net Zero Economy Authority to:

- promote orderly and positive economic transformation;
- facilitate greenhouse gas emissions reductions; and
- ensure regions, communities and workers are supported to manage the impacts, and share in the benefits, of the net zero economy.

Identity

The initial Plan showed the emissions snapshot for the entire district of the City of Gosnells (i.e. total community, commercial and industrial emissions) in 2020/21, provided by Snapshot Climate. Below is the latest update (2022/23).



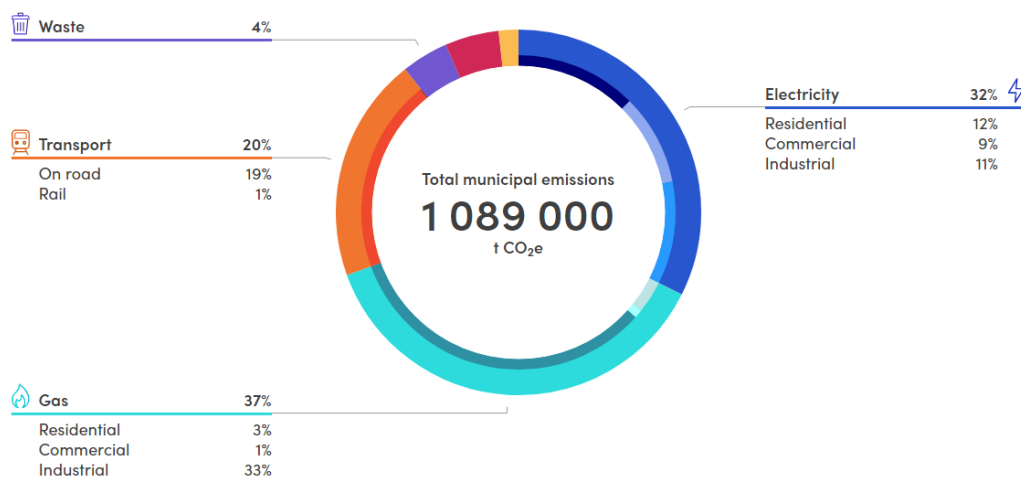
IPPU is Industrial Processes and Product Use and includes industrial processes and refrigerant use.

Fugitive emissions are the gases unintentionally released during the extraction, processing, storage, transport, and discharge of fossil fuels.

The latest snapshot shows that gas (mainly from industrial use) is the biggest source of emissions (37%) in the district. Emissions from industrial use of gas has increased from 228,000 tCO₂e in 2018/19 to 357,000 tCO₂e in 2022/23 (+57%) and is predominantly driven by manufacturing and a significant increase in mining.

This is followed by electricity (32%), broken into residential (12%), industrial (11%) and commercial (9%). Road transport, which includes automotive and freight, accounts for 19% of emissions. As a whole, electricity emissions have decreased from 460,000 tCO₂e in 2018/19 to 353,000 tCO₂e in 2022/23 (-30%).

Shown graphically, Gosnells district emissions in 2022/23 are broken down as follows:



Corporate emissions profile

An emissions profile is a record or inventory of greenhouse gasses being released into the air by different sources and activities. The City's corporate emissions profile details the emissions that result from City operations. The emissions are displayed in the Sustainability Action Plan by scope, source and asset.

To further explore emissions from City activities, the City produced its first emissions reduction strategy in October 2024.

EMISSIONS REDUCTION STRATEGY

The emissions reduction strategy takes a deep dive into the City's emissions profile and provides 14 opportunities to reduce emissions, targeting the most emissions intensive activities.

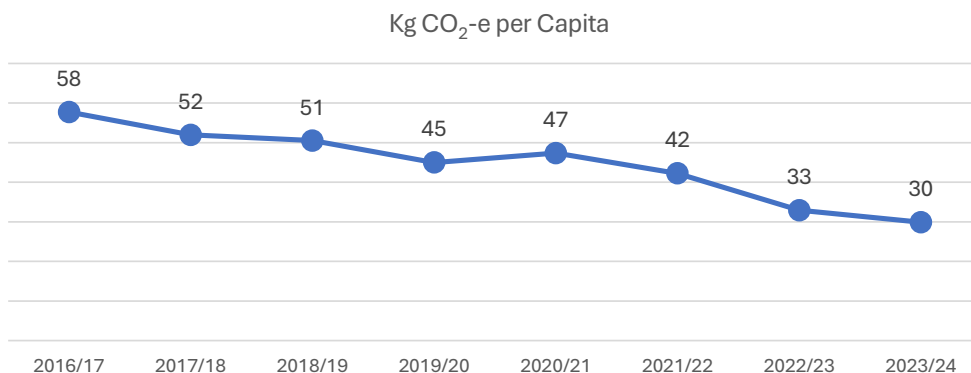
The strategy will enable the City to make informed decisions about appropriate emissions reductions opportunities.

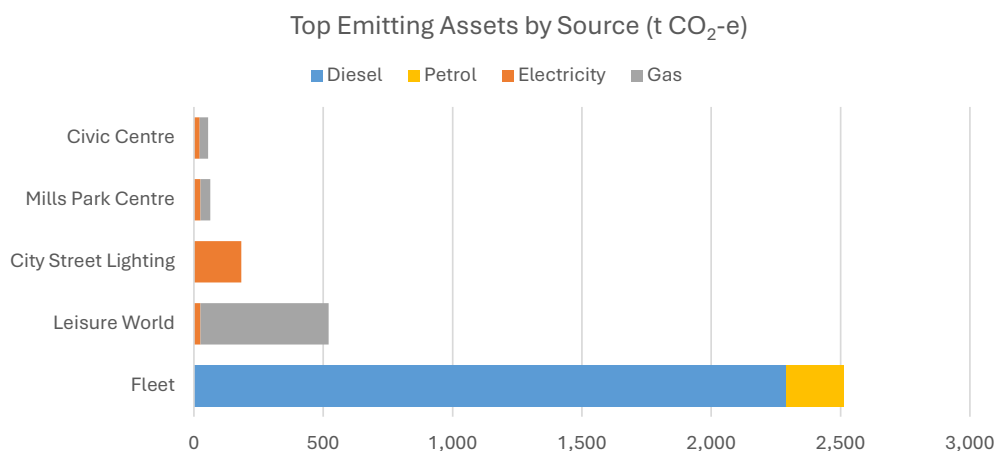
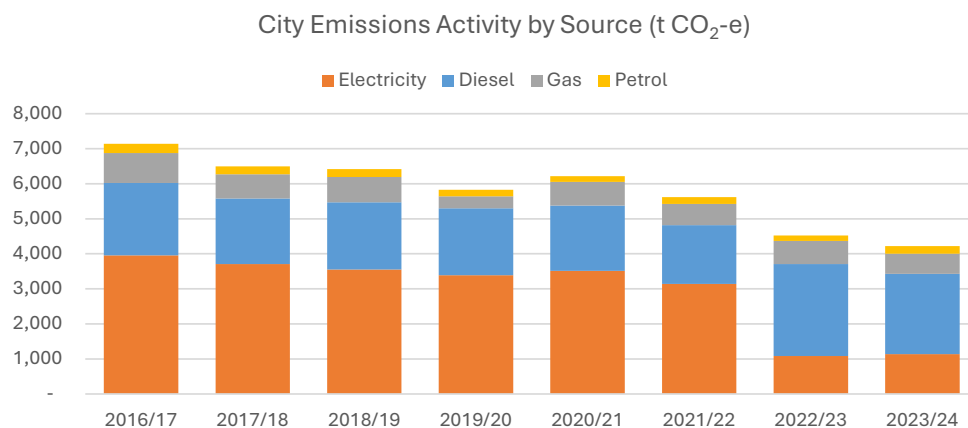
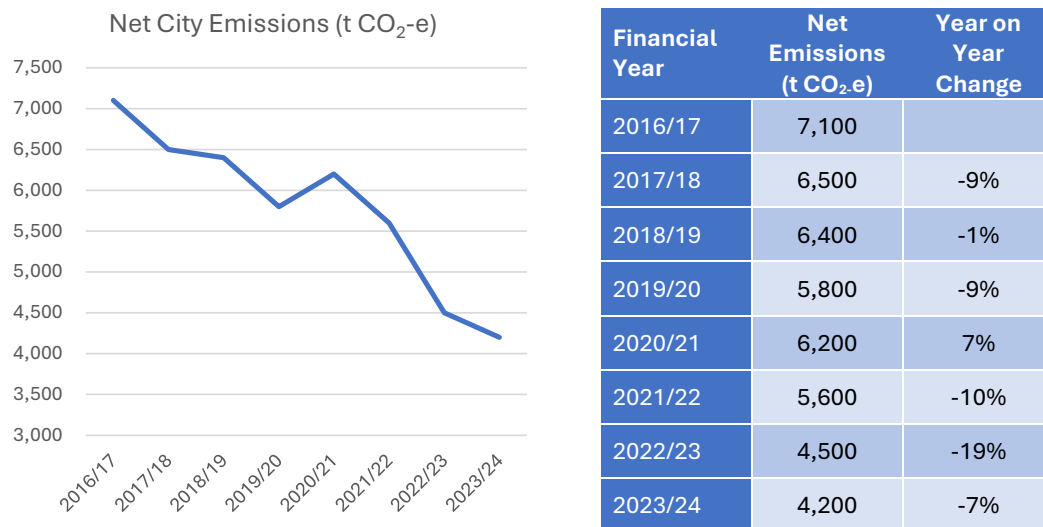
The strategy also explains the risks and implications of the opportunities and where further developments are required.

The City's net emissions do not include emissions resulting from Western Power streetlighting because the assets are not owned or controlled by the City. Consumption of electricity by Western Power streetlighting in the City of Gosnells totalled 5,700,000 kWh in 2023/24. That equated to 52% of the City's total electricity bill. This is down from 5,900,000 kWh in 2021/22 and 5,850,000 kWh in 2022/23.

When the Sustainability Action Plan was published, the City's 2021 estimated resident population was 131,000. The latest estimate (ABS ERP 2024) is 141,000. The current population forecast for 2030 is 149,000.

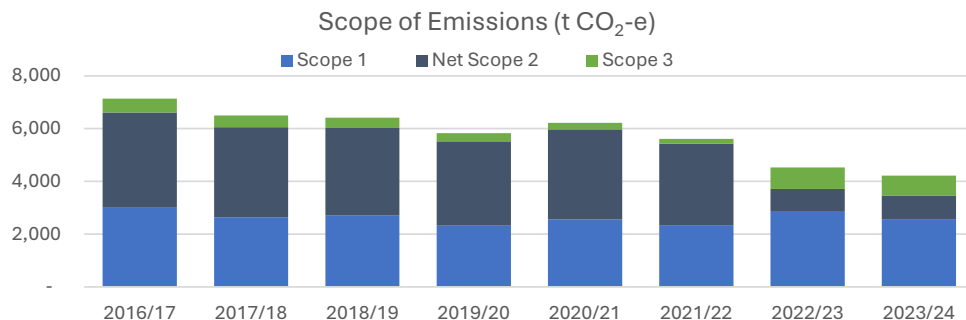
Despite a growing population and greater service level demands, the City's total net emissions have decreased from over 7,000 t CO₂-e in 2016/17, to 4,200 t CO₂-e in 2023/24 (-41%). On a per capita basis, that equates to 58 Kg CO₂-e per resident in 2016/17, compared to 30 Kg CO₂-e in 2023/24 (-48%).





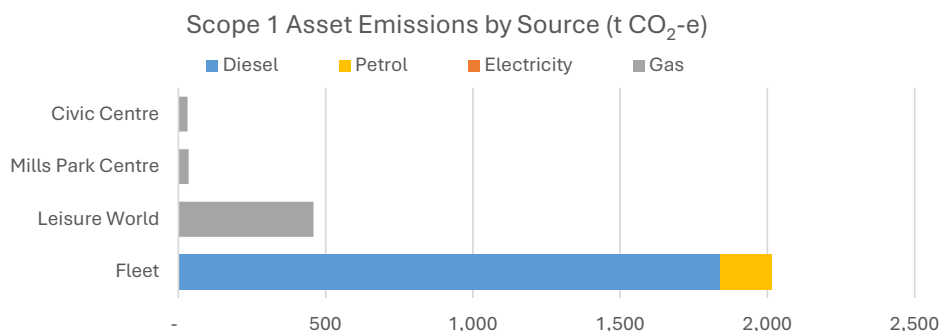
Scope

Scope refers to the source of emissions and the different ways emissions are categorised to help explain whether emissions are a result of operational activity or the wider supply chain.



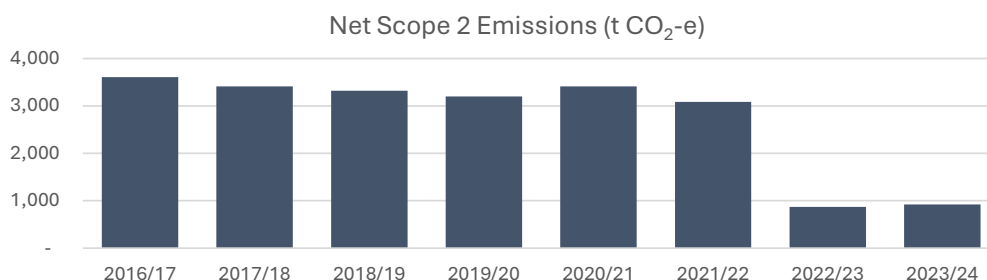
Scope 1

Sometimes referred to as direct emissions, scope 1 covers emissions that result directly from the activity of the City, like fuel used to power the City's fleet.



Scope 2

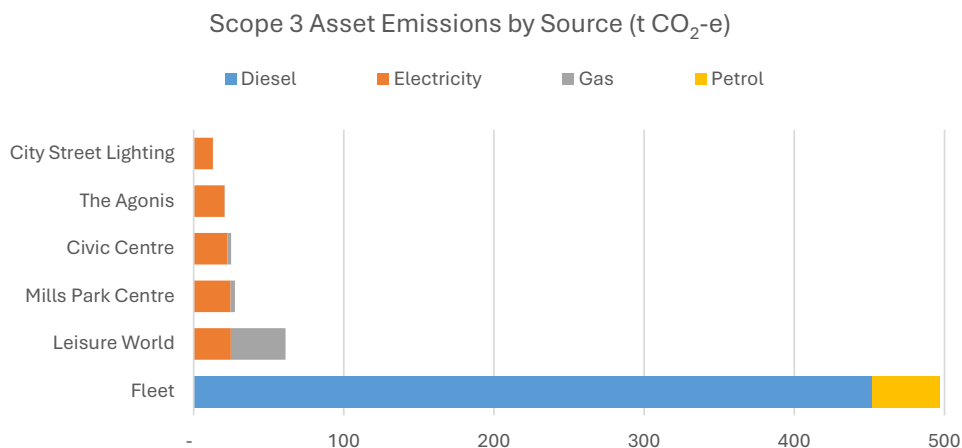
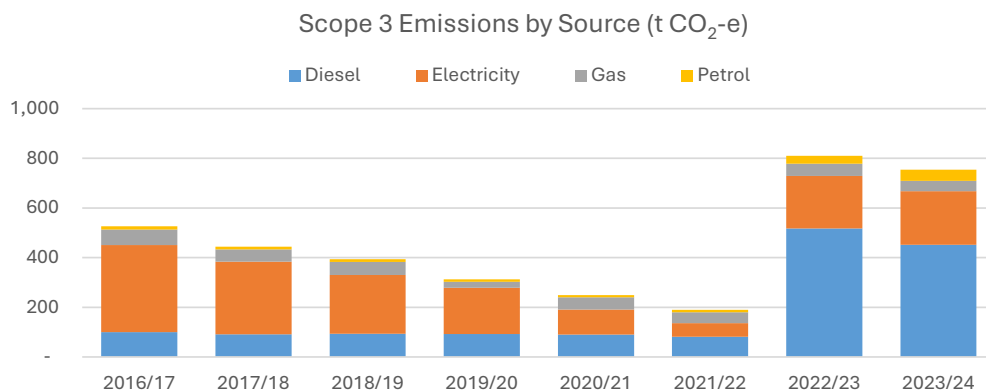
Indirect emissions are created in the production of electricity purchased by the City.



- There has been a significant reduction in scope 2 emissions since the City began sourcing renewable energy for its biggest electricity consuming contestable sites in April 2022, as part of WALGA's sustainable energy project.

Scope 3

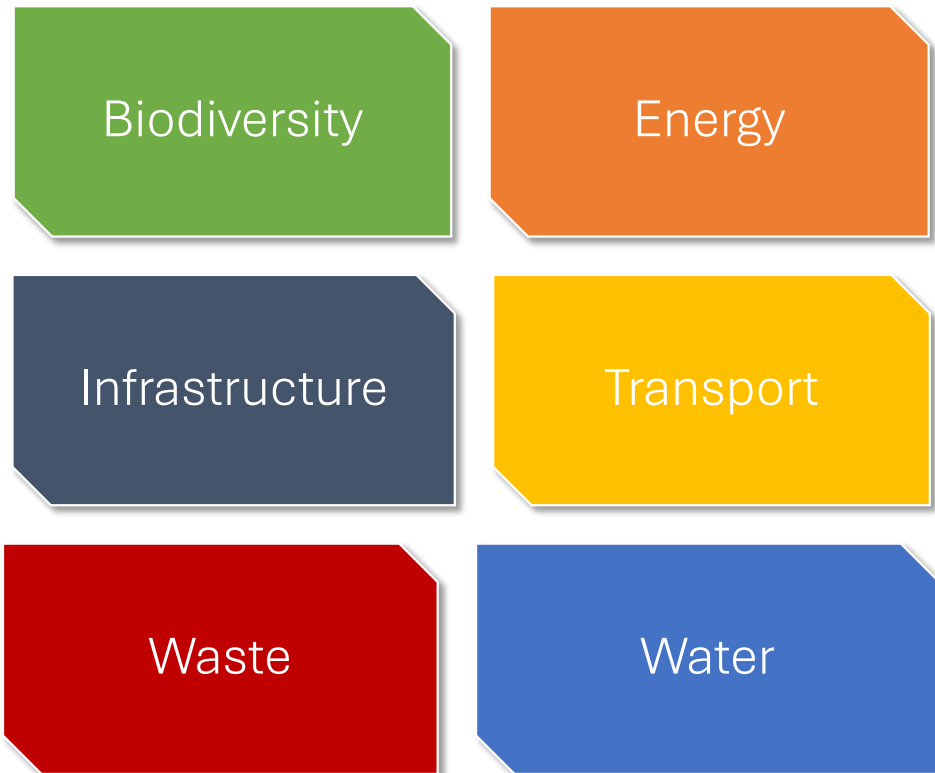
Broader indirect emissions are value chain emissions and emissions not directly in the control of the City, such as emissions generated from buying, using and disposing of a product from a supplier.



- Scope 3 includes waste generated by the City's operations, which is processed outside of the City, and is estimated at 40 tCO₂-e.
- As a result of the decline in the local production of petroleum products and an increase in imports, the National Greenhouse Accounts Factors for scope 3 emissions for liquid fuels were reviewed. The result is an increase in scope 3 emissions in 2022/23, without a significant change in consumption.

Sustainability in Action

The actions identified in the Sustainability Action Plan are split into key sustainability areas:



While the original Plan highlights 'climate' as an independent sustainability area; in this report and moving forward, those actions are consolidated into other sustainability areas and the monitoring statistics considered as an overarching element.

Achievements

Below are some of the actions achieved following adoption of the initial Plan.

February 2023	COUNCIL ENDORSES THE CITY'S FIRST SUSTAINABILITY ACTION PLAN
	Containers for Change exchange points installed in many parks and facilities
	New recycling hubs are installed in libraries and the Civic Centre
April	Chemical refrigerants in the Leisure World airconditioners are replaced with hydrocarbon
May	The City is accredited as a Gold Waterwise Council
	Tom Bateman Oval sports lights are upgraded to LED
	Following advocacy by the City, the State Government announces plans to connect Kenwick and Maddington to waste water infrastructure
July	The City's new Bike Plan is endorsed by Council
October	Energy efficient streetlight upgrades at Sanctuary Waters and The Avenues
	A new hybrid truck is introduced to the City's fleet
	The City hosts Switch Your Thinking 'Energy efficiency for home builders and renovators' expo
November 2024	The City welcomes the introduction of a Community Forest
	A battery is installed at the Emergency Operations Centre
February	Federal Government announce funding for Cleaning up the Canning River
March	New solar panels are installed at five of the City's facilities
	The City's Smart Drainage Program is recognised with two Institute of Public Works Engineering Australasia WA Excellence Awards
	State Government announced the awarding of funding for the Bracadale to Auckland Park Corridor through an Urban Greening Grant
	The City wins Federal Government funding for the installation of electric vehicle charging infrastructure
	Cassidy Pavilion gets an energy efficiency upgrade
April	The City holds a Plants for Locals event at Wilkinson Homestead
	The City hosts it's first household hazardous waste drop off day
May	Plants at the Amherst Village Community Centre waterwise demonstration garden are installed
	The City's Smart Drainage Program is awarded the Stormwater WA Excellence Award for Asset Management
	The City opens a new cat management facility
	Wetland rehabilitation day with school students at Swinger Reserve
June	Give our Bushland a Boost community planting day at Cardington Way Reserve
	The City receives the results of an energy audit at the Civic Centre
	The City wins the Environmental Stewardship of the Year Award at the Parks and Leisure Australia (WA) Regional Awards of Excellence

BIODIVERSITY

Corporate

SUBJECT	DETAILS	UPDATE
Green Space Planning	The City will continue to implement hydrozoning and ecozoning to reduce the amount of irrigated turf and increase the areas of mulched tree planting.	Twenty-one public access ways and roundabouts went 'dry' in 2022/23, with irrigation removed and/or waterwise species selection and landscaping. The program of ecozoning has continued into 2023/24 with reduced areas of turf decreasing water consumption and mowing time, and associated emissions.
Habitat Restoration	The City will continue to work on restoration projects that enhance habitats and prevent any further river bank or sediment loss.	The City implemented the Southern and Canning River Confluence Foreshore Rehabilitation Project.
<i>The project received partnership funding from the Department of Biodiversity, Conservation and Attractions through the Swan Canning Riverpark Urban Forest Program. Stage 1 of the project continued until December 2023 and Stage 2 commenced in 2024.</i> [Monitoring - Image 1]		
Public Open Space (POS) Strategy	The City will continue to implement the Public Open Space Strategy to enhance the effectiveness of POS.	The City, through the POS Strategy, acquired two residential lots to extend and improve parks in Huntingdale and Beckenham. The POS Strategy also underwent review.
Greening Gosnells Strategy	The City will implement the Greening Gosnells Strategy, which aims to identify locations devoid of canopy, reduce the urban heat island effect and improve amenity for residents.	The City, along with Armadale Gosnells Landcare Group, planted over 280,000 plants and trees in the winters of 2023 and 2024
Street Tree Policy	The City will continue to implement the Street Tree Policy objectives, to guide planning and maintenance of street trees.	In 2022/23, the City received 330 customer requests to remove trees, 110 tree removals were opposed. In 2023/24, the City received 380 customer requests to remove trees, 70 tree removals were opposed.
Management of Conservation Areas	The City will continue to manage and enhance its natural areas, each of which has been ranked using State guidelines for biodiversity.	Elkhorn Avenue, Edencourt Drive and Tiger Circle Reserves have high conservation value and form part of a buffer to Balannup Lake.
<i>In 2023, the City added another 17,000 seedlings to the reserve and held a Give our Bushland a Boost event at Edencourt Drive Reserve.</i> [Monitoring - Image 2]		
Bushfire Mitigation	The City, in partnership with the Department of Fire and Emergency Services, will continue to implement fire mitigation strategies to reduce the fire risk within the district.	In 2022/23, the City received Mitigation Activity Fund support of \$226,000 to complete fire risk reduction strategies. In 2023/24, the funding obtained was \$99,000.

Bird Waterers	The City will continue to install bird waterers to supply clean water sources for birds all year round.	The City installed a new bird waterer at Mills Park in 2022. The 'cockitrough' provides water high off the ground for better protection from predators and people. Threatened red-tailed black cockatoos were recorded using the Mills Park waterer in 2023/24 and another waterer was installed at Mary Carroll Park.
Trees and Urban Canopy Policy	The City will continue to implement the Trees and Urban Canopy Policy objective of expanding tree canopy on City land.	The City planted 2,200 advanced trees in 2023, adding an estimated 160,000m ² of canopy when mature. A further 3,100 advanced trees were planted in 2024, adding an estimated 275,000m ² of canopy.
Cat Local Law	The City will seek ways to encourage more responsible pet ownership and reduce the impact of cats on native fauna.	The City introduced a 'safe and happy at home' campaign.
<i>Launched through social media, the campaign provides resources and information to residents about responsible cat ownership. Fees for hiring cat traps have been abolished and the City established a new cat management facility. Council has also called on the State Government to amend the Cat Act 2011 to require cats to be confined to their owner's property.</i> [Monitoring – Image 3]		
Pest Management	The City will continue to utilise pest management programs, reducing the number of feral species on the City's properties, including plants.	The City is assisting the Department of Primary Industries and Regional Development to help stop the spread of Polyphagous shot-hole borer. Quarantines were put in place to restrict the movement of wood and plant materials and trees have been removed by the Department where necessary.
NEW ACTION! Planting Standards	The City will maintain and review a standard species list for appropriate plant selection.	A new Plant Palette and tree species list was introduced in 2023 to standardise and ensure appropriate species selection and improve biodiversity, considering soil types, water use, origin, site suitability and size, for example.

BIODIVERSITY

Community

SUBJECT	DETAILS	UPDATE
Bushfire Mitigation	The City will continue to issue Annual Fire Hazard Reduction Notices and conduct firebreak and fire hazard inspections.	In 2022/23, the City completed 36,000 inspections, resulting in almost 900 cautions and over 150 infringements. In 2023/24, the City completed 42,000 inspections, resulting in 450 cautions and 70 infringements.
State Government Partnerships	The City will continue to work in partnership with State Government agencies to enhance and maintain biodiversity assets in the City of Gosnells.	The City received \$56,000 from the State Government's Riverbank Funding, for ecological restoration of river systems.

Community Planting Days	The City will continue to host and support community planting events.	Residents came together to plant over 16,000 seedlings at Homestead Park in Thornlie. Give our Bushland a Boost was hosted at Elkhorn Avenue Reserve in Southern River in 2023.
<i>In 2024, Give our Bushland a Boost was held at Cardington Park in Huntingdale. Residents planted 5,000 native seedlings along the Southern River foreshore.</i> <i>Thanks to the combined efforts of the City of Gosnells, Ashburton Drive Primary School students and the Armadale Gosnells Landcare Group, 500 native tube stock seedlings were planted at Swinger Reserve, Gosnells, a wetland reserve which neighbours the school.</i> [Monitoring - Image 4]		
Key Community Environmental Support Groups	The City will continue to work with its long-standing key partner in community based natural resource management - Armadale Gosnells Landcare Group (AGLG).	AGLG planted almost 100,000 native seedlings and worked on 29 ecological rehabilitation projects across the Cities of Armadale and Gosnells in 2022/23. AGLG completed 132 land care events across Armadale and Gosnells in 2023/24 with the support of 6,900 volunteer hours.
Grants	The City will continue to apply for and lobby for grants from State and Federal Governments to support tree planting, urban canopy development and biodiversity focussed revegetation programs.	The City, with WALGA, advocated for funding of \$20 million over 4 years for urban canopy development. The State announced a two-year \$3.75 million Urban Greening Grants Program in the 2023/24 budget.
<i>The City was successful in receiving \$115,000 in 2024 to plant 1,100 trees and 3,000 understorey species in a drainage corridor in Canning Vale as part of WALGA's urban greening grant program.</i> [Monitoring – Image 5]		
Free Verge Trees	The City will continue to run its annual program of promoting, providing and planting free verge trees in response to resident requests.	In the 2023 winter planting season, the City made 800 targeted letter drops to residents identified as having appropriate space for verge tree planting and received an acceptance rate of about 70%.
Bushfire Mitigation	The City will continue to enforce the Bush Fires Act 1954, in relation to preventing and responding to bushfires, and the City of Gosnells Public Health Local Law 2017, which prescribes offences related to the burning of rubbish, refuse or other material.	In 2022/23, the City issued 11 cautions and 4 infringements. In 2023/24 the City issued 7 cautions and 4 infringements.
Tree Sponsorship	The City will explore the viability of introducing a tree sponsorship program.	The City launched a trial in June 2023. The Community Forest project at John Okey Davis Park received 20 applications in the month of opening. A further 20 trees were added to the Community Forest in 2024. Applications remain open year round with planting now occurring every winter.

NEW ACTION!
Plant Giveaway

The City will hold an annual plant giveaway.

Plants for Locals was held in April 2024 and resulted in 10,000 native plants being shared with residents.

Plants for Locals was held at Wilkinson Homestead in 2024. The event included entertainment for children with the City's youth services and their NOMAD trailer, Switch Your Thinking providing advice on energy efficiency while Armadale Gosnells Landcare Group were on hand to talk all things nature.

[Monitoring – Image 6]

Monitoring

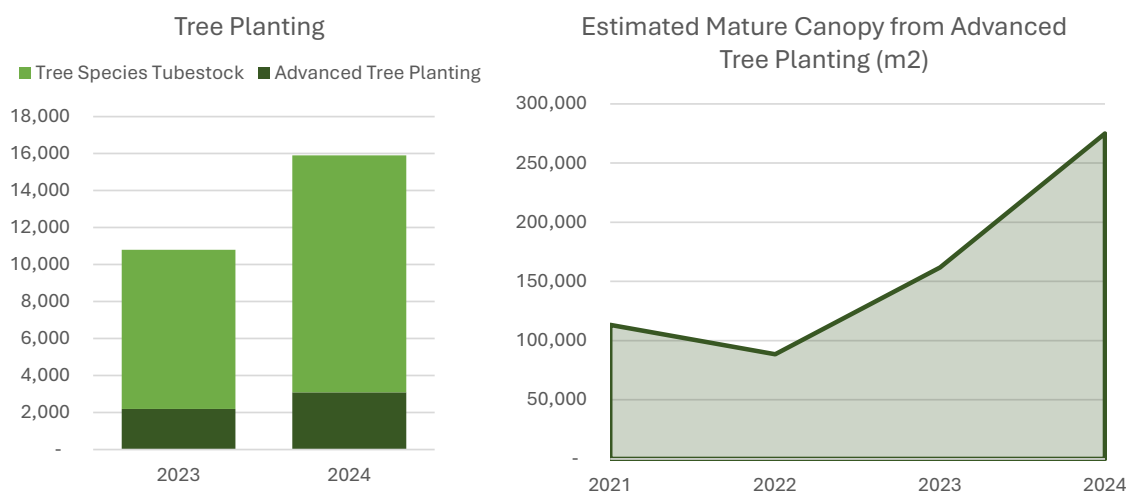


Image 1 - Foreshore Rehabilitation Project



Image 2 - Edencourt Drive Reserve community planting



Image 3 - Safe and Happy at Home campaign



Image 4 - Swinger Reserve planting day



Image 5 - Urban Greening Grant Program



Image 6 - Plants for Locals 2024

ENERGY

Corporate

SUBJECT	DETAILS	UPDATE
Street Lights	The City will continue the systematic replacement of City owned mercury vapour, metal halide, compact fluorescent and high pressure sodium street light fittings with energy efficient LED.	The City installed energy efficient street light upgrades at Sanctuary Waters and The Avenues.
Smart Meters	The City will progressively introduce smart meters across its facilities to digitally measure energy use and remotely report readings. Smart meters also provide access to a wider range of services, including battery storage.	Smart meters have been installed in Leisure World, Homestead Park Community Centre, Mills Park Centre, Leipold and Berehaven Pavilions and the Gosnells Archery Centre.
Energy Saving Infrastructure	The City will continue to seek viable opportunities to retrofit energy saving measures in its facilities such as LED lighting and motion sensors.	The City has implemented a number of LED lighting retrofits.
<i>The City has installed LED lighting at The Agonis, Homestead Park Community Centre, Amherst Village Community Centre and Tom Bateman.</i> <i>LED sports lighting has been installed at Gosnells Oval, Hume Road Reserve, Harmony Fields and Langford Netball Courts and the City has programmed the LED conversion of the remainder of the City's sports lighting over a 10 year period.</i> <i>Performance lighting upgrades have occurred at DRPAC with 80% of the performance lighting now converted to LED.</i> [Monitoring – Image 1]		
Renewable Hydrogen	The City will conclude a Renewable Hydrogen Feasibility Study to explore the potential for hydrogen-based solutions at the future Operations Centre.	The City investigated the option of hydrogen with the feasibility study identifying that it is not currently viable.
Battery Powered Tools	The City will continue to consider the feasibility of battery powered tools and monitor new energy efficient developments for opportunities.	Multiple brands have been trailed to assess the usability, effectiveness and reliability of battery-operated small plant. These trials have informed ongoing procurement of small plant across the Parks and Environment branch, in particular.
Solar Photo Voltaic (PV)	The City will continue to look for opportunities to expand PV on City infrastructure, on top of the eight PV systems currently installed on buildings and facilities.	The City has implemented PV at six additional sites, including The Agonis, Bev Bridson, Tom Bateman and Cassidy pavilions, Homestead Park Community Centre and the Emergency Operations Centre.

Hydrocarbon Refrigerants	The City will explore the feasibility of retrofitting all AC units with natural hydrocarbon refrigerants.	A trial was completed with the air conditioning units at Leisure World, resulting in a reduction in energy consumption and cost.
Energy Audits	The City will continue to undertake energy audits of its facilities.	The City's Civic Centre was audited in 2024, highlighting the biggest energy consuming elements of the facility and resulting in recommendations for increased solar, further energy efficient lighting and considerations for the heating, ventilation and air conditioning systems.
Power Purchase Agreement (PPA)	The City will continue to source renewable energy from WA based wind farms, through the WA Local Government Association's (WALGA) PPA, for its large energy using (contestable) sites.	Now referred as the Sustainable Energy Project.
<i>According to WALGA, as of 2023/24, the City has offset 4,800 tonnes of carbon dioxide equivalent over the project. This is an average 62% reduction in the City's annual electricity (scope 2) emissions.</i>		
Storing Energy	The City will investigate opportunities to store PV generated energy and utilise Virtual Power Plants (a network of connected batteries).	A battery was installed at the City's Emergency Operations Centre and has resulted in a reduction in energy consumption and operating costs.
Electric Vehicles	The City will explore cost effective opportunities to introduce electric vehicles into the fleet.	The City worked with WALGA, along with other local governments, to secure funding from ARENA for electric vehicle charging infrastructure. The City will purchase nine electric vehicles as a contribution to the agreement.
Hybrid Fleet	The City will switch its light fleet vehicles to environmentally friendly hybrid models at replacement and continue to investigate the feasibility of a low emissions heavy fleet.	The City purchased hybrid vehicles for its fleet.
<i>The City now has three hybrid cars in its light fleet and introduced a hybrid signage truck into the heavy fleet in 2023. The new hybrid vehicles have reduced fuel consumption and operating costs.</i>		
[Monitoring – Image 2]		

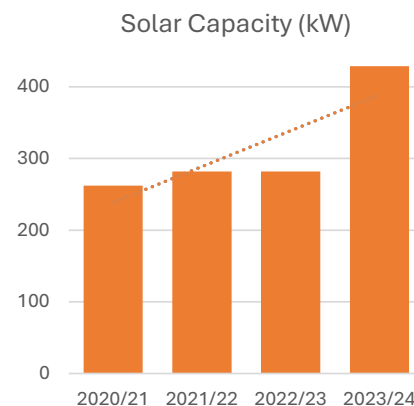
ENERGY**Community**

SUBJECT	DETAILS	UPDATE
Community Solar Batteries	The City will continue to support community solar battery opportunities in cooperation with Western Power.	The City submitted an application to ARENA, in conjunction with Synergy, for five community batteries in the City's most power constrained locations. The application was not successful.
Peak Load Warnings	The City, through Switch Your Thinking, will continue to offer free energy efficiency tips and peak load warnings for residents through SMS.	Switch Your Thinking's EnergySmart SMS has a reach of approximately 1,000 residents each month.
Street Lights	The City will continue to advocate for Western Power to be more proactive in replacing its mercury vapour street light fittings with LED, in accordance with Australian Standard 1158.	The City has developed a street lighting audit plan for Western Power assets, to help with the timely identification of broken lights.
Buildings	The City will prepare and promote guidelines relating to sustainable building construction.	Switch Your Thinking developed a website landing page and 'Building a Sustainable Home' guide and checklist and the City hosted a Switch Your Thinking 'Designing and Living in an Energy Efficient Home' expo for residents and developers.
Rewards for Residents and Rewards for Business	The City will continue to negotiate discounts on solar PV, battery storage, energy audits and rainwater tanks for local communities, through Switch Your Thinking.	There are now 19 business providers, and 16 different products and services offered for discount through Rewards for Residents and Rewards for Business.
<i>Discounts include electric vehicle charging, hot water heat pumps, insulation, LED lighting, composting and more.</i> [Monitoring – Image 3]		

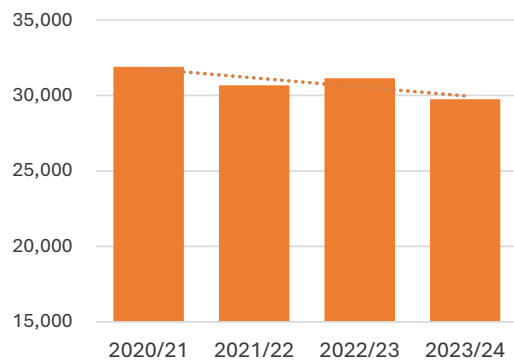
Monitoring

New solar PV has been installed at the Emergency Operations Centre, Homestead Park Centre, the Agonis, Bev Bridson Pavilion, and Tom Bateman. Cassidy Pavilion was redeveloped with LED lighting and solar panels, as well as an energy efficient air conditioning upgrade and kitchen fit out. The City's total solar inventory has now increased from 280kW across eight sites to over 400kW across fourteen sites.

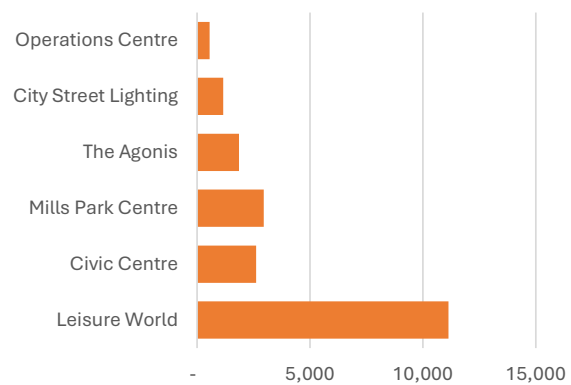
The City's Emergency Operations Centre has decreased annual energy consumption by 22% since the installation of a solar battery system. The Agonis has also decreased annual electricity consumption by 22%, noting solar was installed and operating for only three of four quarters in 2024.



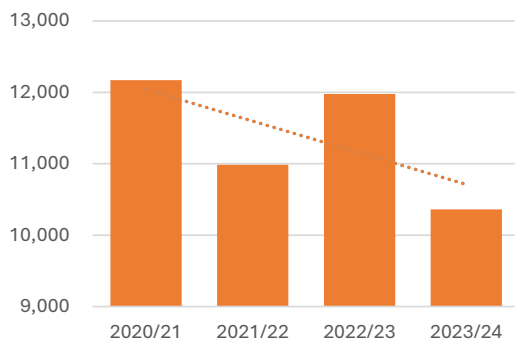
Total City Energy Consumption (GJ)



Top Asset Energy Consumption (GJ)



Gas Consumption (GJ)



Top Asset Gas Consumption (GJ)

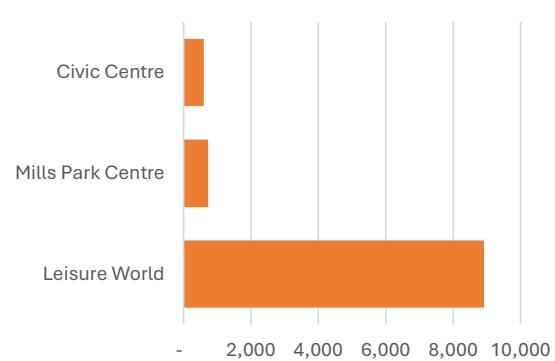


Image 1 - Energy saving infrastructure



Image 3 - Rewards for Residents



Image 2 – Hybrid fleet

INFRASTRUCTURE

Corporate

SUBJECT	DETAILS	UPDATE
Drainage Solutions	The City will, where possible, utilise functional landscape treatments in public open space to support drainage systems without pipes.	The City's green space planning makeover of Bracadale Park, which includes a new all-abilities playground and enclosed dog park, resulted in the development of a new drainage basin that provides stormwater compensation. The works included limestone rockwork, native landscaping, reed planting and irrigation. This will reduce flooding.
Pavement Recycling	The City will continue to, where applicable, utilise recycled building and construction waste in lieu of using new materials for pavement construction.	The City has completed a number of projects using construction and demolition waste and recycled road base.
<i>Jointly funded by the City and Department of Transport, the Crescent Shared Path project includes 300 tonnes of Roads to Reuse recycled road base. Existing mature trees were also retained and incorporated into the design.</i> [Monitoring – Image 1]		
Emergency Operations Centre	The City will continue to support the Emergency Operations Centre, which houses Gosnells Bush Fire Brigade (BFB) and Gosnells State Emergency Service.	During 2023/24, the BFB completed 36 prescribed burns, taking over 1,000 hours to complete.
Drainage Retrofits	The City will continue to retrofit drainage outlets through water sensitive urban design measures, to improve water quality entering sensitive wetlands and waterways.	The City undertook a significant drainage retrofit project at Atkinson Way Reserve, to resolve issues with failing retaining walls, stagnant water and flooding.
<i>The drainage corridor, which terminates at the conservation category wetland newly named Maladjiny-Ap Balyan Boodjar, also benefitted from native tree and vegetation planting. Improving the water quality flowing through the corridor ensures that the biodiversity assets at the wetland are better protected.</i> [Monitoring – Image 2]		
Sustainable Procurement	The City will continue to utilise procurement policies with whole of life purchase considerations.	Since the release of mandatory climate-related financial reporting standards, the City has been exploring opportunities to include further sustainability and emissions accounting factors into procurement processes.
NEW ACTION! Sustainable Development	Blanche Street sustainable housing.	The City is working with the University of Western Australia School of Design to develop designs for a three home, low cost, sustainable development at Blanche Street.

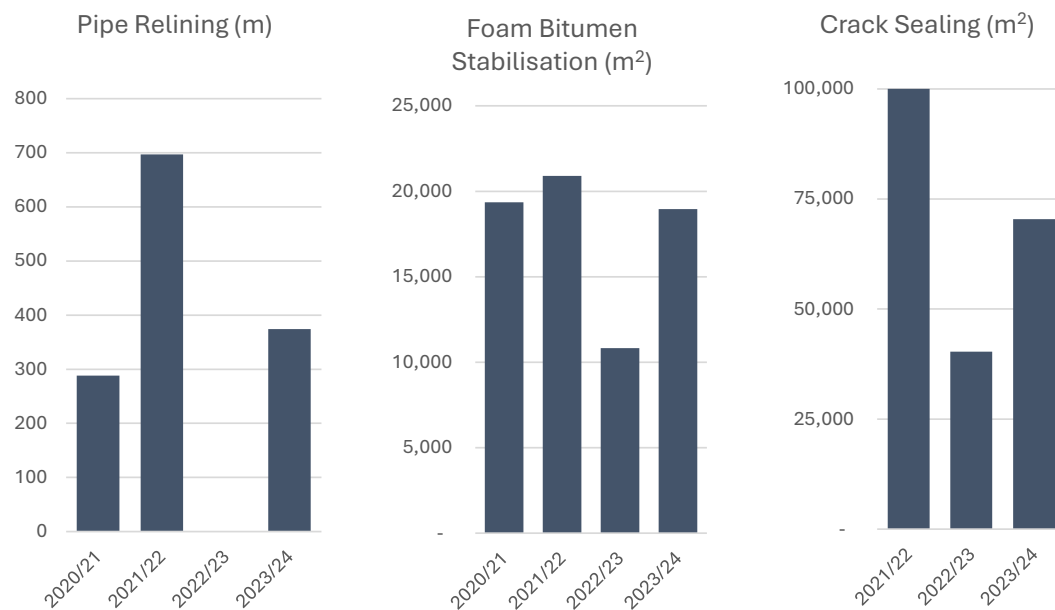
NEW ACTION! Sustainable Development	Peace Park upgrade.	The City advertised tenders for the upgrade of Peace Park in January 2024. Once complete, the new park will have a 'living stream', nature play, footpaths, boardwalk and landscaping. The design concept also includes a new subdivision with eight residential lots being created as part of the park development.
NEW ACTION! Sustainable Development	Charles Hook Park improvement and development plan.	The City finalised concept design works on Charles Hook Park. The improvement and development plan would result in a major park upgrade along with a sustainable residential development, focusing on the retention of mature native trees.
Stormwater Drainage	The City will continue to assess the option of drainage pipe re-lining in lieu of removal and installation of new pipes.	The City implemented its award-winning Smart Drainage Program, which includes technologies such as tractor-mounted CCTV and push cameras to investigate inside pipes, ground penetrating radar, expanding foam to fill voids and repair pipes in-situ.
<i>The City's Smart Drainage Program was fully implemented in 2023/24 and won numerous awards including two Institute of Public Works Engineering Australasia (IPWEA) WA Excellence Awards (Excellence in Asset Management and Excellence in Innovation – Metropolitan) and the Stormwater WA Excellence in Asset Management Award. The City also hosted an industry demonstration day at Mills Park in November 2023, highlighting key elements of the smart drainage program as part of an IPWEA training event for other local governments.</i> [Monitoring – Image 3]		

INFRASTRUCTURE

Community

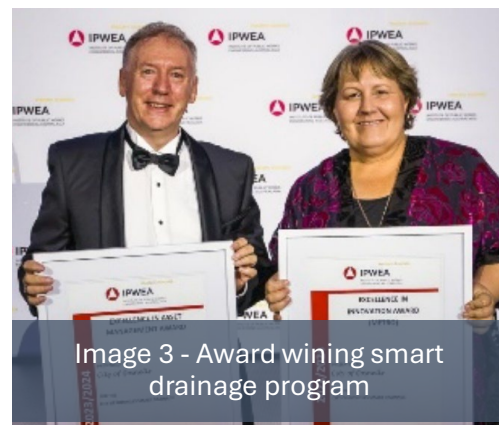
Planning Policy	The City will continue to support the State Government in implementation of State Planning Policy 3.7 - Planning in Bushfire Prone Areas.	The City provided feedback to the Department of Planning, Lands and Heritage on the new SPP 3.7 and Guidelines in 2023 as part of the consultation process. The new Policy and Guidelines prioritise bushfire requirements early in the planning process and seeks to ensure that future housing delivery appropriately balances bushfire risk mitigation and environmental conservation measures.
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Monitoring



One of the advantages of crack sealing is that it significantly extends the life of asphalt by keeping moisture and other elements out. Well-sealed cracks can prevent the need for more extensive repairs, offering a long-term solution for pavement preservation.

By reducing the need for asphalt production, it helps with the conservation of natural materials and reduces landfill waste.



TRANSPORT

Corporate

SUBJECT	DETAILS	UPDATE
Planning Policy	The City will continue to implement local planning policies to create future developments that are transit oriented.	Maddington Town Centre Concept Plan was launched in May 2023.
<i>Maddington Town Centre Concept Plan includes a variety of land uses around the Maddington train station. The existing transport links in Maddington provide an excellent opportunity to develop pedestrian-friendly, affordable living opportunities for the community. The vision is that Maddington will provide a high-quality lifestyle and be a place where people choose to live. The Plan would result in more than 3,500 dwelling units, including apartments and townhouses, providing homes for around 7,350 people.</i> [Monitoring – Image 1]		
NEW ACTION! Network Improvements	The City will make improvements to its road and pathway networks, to improve walkability and access to active transport.	The City commenced work on the new priority bus lane for Ranford Road. The project includes two new peak-period priority bus lanes, intersection upgrades, safer turning pockets, new paths and landscaping. The City is also working with Main Roads WA to reduce crash risks and improve safety for vulnerable road users. Planning is underway to install local area traffic management devices in ten locations across the suburb of Gosnells through the Urban Road Safety Program.
<i>The City's work on a roundabout at the intersection of William Street and Camberwell Road in Beckenham won the Sarkis Petrossian Award for Innovative Practice in Traffic Safety Management and was highly commended in the Excellence in Road Safety Projects Award category and the Best Public Works Project (less than \$2 million (metro)) category at the Institute of Public Works Engineering Australasia (IPWEA) WA Excellence Awards in 2023.</i> [Monitoring – Image 2]		
EV Charging Infrastructure	The City will seek opportunities to develop renewable energy powered electric vehicle charging stations at its facilities.	The City, along with other local governments and supported by WALGA, applied for funding through ARENA for electric vehicle charging infrastructure, to support nine battery electric vehicles. Funding support was announced in March 2024 with installation of the new charging stations programmed for 2024/25.
Fleet Management	The City will continue to adopt an approved vehicle list based on emissions (tCO ₂ -e), as well as fleet management practices and logistics to minimise superfluous movements.	As of 2023/24, the City's light fleet complying vehicle list only includes hybrid and electric vehicles. The City also began implementing tracking for fleet vehicles. This will assist in management of the fleet.

Bike Plan	The City will finalise and implement the City of Gosnells Bike Plan.	The City's Bike Plan was endorsed by Council in July 2023.
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The Plan, which was jointly funded by the City and the Department of Transport, will guide the City's investment in cycling and shared path infrastructure over the next 10 years.

A central part of the document is a 10-year action plan that includes:

- Upgrades and extensions to the high-quality local path network along the Canning and Southern Rivers*
- Completion of the shared path network through Gosnells along the Armadale to Perth rail corridor*
- Gaps in the City's long-term Cycle Network to be completed as a priority*
- A focus on the provision of supporting infrastructure such as wayfinding and secure bicycle parking*
- Promotion of cycling in the community*

[Monitoring – Image 3]

TRANSPORT

Community

Public Transport	The City will continue to advocate for improvements in access to public transport.	The City has been working with METRONET on planning for the removal of the William Street level crossing on the Armadale Line and the Thornlie-Cockburn Link. The William Street level crossing removal will result in an elevated Beckenham Train Station and the Thornlie-Cockburn Link will be Perth's first east-west cross line.
Active Transport	The City will continue to promote both active transport and TravelSmart opportunities for residents.	The City has collaborated with the Department of Transport, METRONET and the Public Transport Authority to create a new large scale active travel map.
Electric Charging Stations	The City will advocate for electric vehicle charging stations in the district.	As part of the ARENA program to provide electric vehicle charging for the City's fleet, funding was also secured for public charging infrastructure at the Civic Centre and Mills Park. This is due to be installed in 2024/25.

Monitoring

Almost 8km of paths were constructed across the City at the end of 2022/23 and into 2023/24. These paths encourage walking and active transport and improve access to public transport.

Road	Works	Length (m)
Albany Highway	Replacement	390
The Crescent	New	1,100
Glenbrook Road	New	130
Greentree Drive	Replacement	500
Prior Close	New	180
Dellar Road	New	500
Ferres Drive	New	285
Stalker Road	New	200
Hughes Street	New	250
Mary Carroll Park	New	160

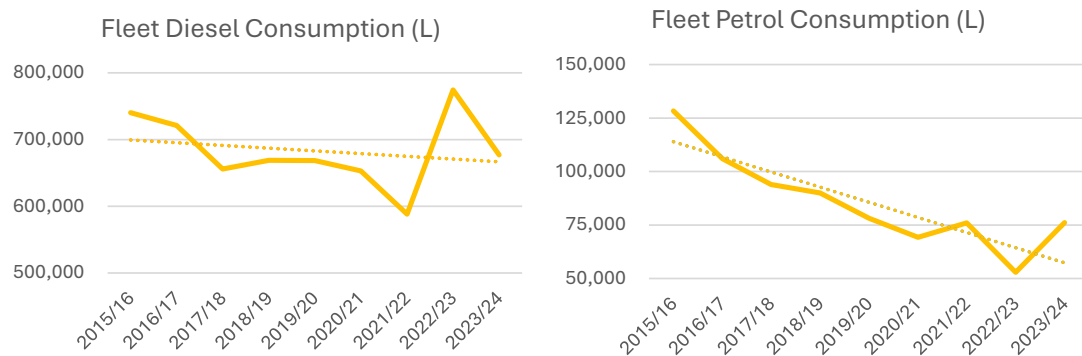


Image 1 – Maddington Town Centre concept plan



Image 2 – IPWEA WA Excellence Awards



Image 3 – City of Gosnells Bike Plan

WASTE

Corporate

SUBJECT	DETAILS	UPDATE
Waste to Energy	The City will meet its contractual relationship with Kwinana Energy Recovery, for household waste to be converted to energy rather than go to landfill.	Kwinana Energy Recovery (formally referred as Avertas Energy) reached the 'first fire on gas' commissioning phase at the end of 2023/24.
<i>Kwinana Energy Recovery is Australia's first waste to energy facility. The facility will use world-class technologies to process 460,000 tonnes per year of residual non-recyclable waste, significantly reducing CO₂ emissions and delivering 38MW of baseload electricity to the grid. These outcomes are the equivalent of taking 85,000 cars off Perth's roads or powering 50,000 Perth households every year.</i> [Monitoring – Image 1]		
NEW ACTION! Food Waste	The City will investigate alternatives, other than waste to energy and landfill, for the processing of food organic waste.	In a first for Western Australia, the City of Gosnells will trial an innovative food waste recycling process, with insect larvae converting waste into fertiliser and providing protein for animal feed. The trial was approved in 2024.

WASTE

Community

Waste Education	The City will provide relevant information to improve residents' knowledge of waste streams and recycling options to minimise waste.	The City introduced a new Special Waste Guide and waste education was expanded through the Waste Sorted grants program.
<i>The City received a \$15k Waste Sorted Grant to purchase recycling bin stickers to educate the community on what can be recycled and how to reduce contamination rates. 'How to sort your waste' cards have been made available in various languages and distributed throughout the community.</i> [Monitoring – Image 2]		
Verge Collection	The City will continue to provide a verge collection service. Where possible, recyclable materials are separated at the verge and recovered to minimise the amount of bulk materials sent to landfill.	The City collected 3,890 tonnes of junk through verge collections in 2023/24.
Recycling	The City will continue to provide a recycling bin collection service to enable appropriate products to be recycled where possible.	The City collected 7,200 tonnes of household recycling in 2023/24.
Loan Collections	The City will continue to support libraries, which provide a sustainable system of sharing and circulating materials that reduce waste.	The City's Library Services provided 330,000 physical loans of library materials and 100,000 e-loans using the library e-resources.

Public Waste	The City will continue to improve the facilities for collecting public waste at its parks and buildings.	The City introduced Containers for Change exchange points.
<i>The City installed 12 container exchange points across the City's large parks and highly used areas (Mills Park, Pioneer Park, Robinson Park, Langford Oval, Albany Highway). Community members can leave bottles and other containers that attract the 10c Containers for Change refund in the special baskets and cradles, allowing other community members to collect the containers and take them to be refunded.</i> [Monitoring – Image 3]		
Recycling Points	The City will continue to provide collection points in City libraries to enable the recycling of specific products.	Recycling hubs are now available at the City's libraries and Civic Centre.
<i>New recycling hubs are located at Amherst Village Library, Gosnells Library, Mills Park Library, Thornlie Library and the Civic Centre. The hubs allow community members to recycle aerosol containers, light globes, printer cartridges, mobile phones and phone chargers, which can't be disposed of in kerbside rubbish and recycling collections.</i> [Monitoring – Image 4]		
NEW ACTION! Household Hazardous Waste	The City will support the community to dispose of household hazardous waste correctly, reducing harm to the natural environment.	The City held a community waste drop-off day in 2024.
<i>The event allowed residents to dispose of items that cannot be collected through regular waste services, in a controlled and environmentally sensitive manner. Approximately 830 vehicles were recorded attending the drop-off day. When surveyed following the event, the most common response when asked "How do you normally dispose of household hazardous waste?", was – "incorrectly". The event was attended by Switch Your Thinking and provided a great community education opportunity.</i> [Monitoring – Image 5]		

Monitoring

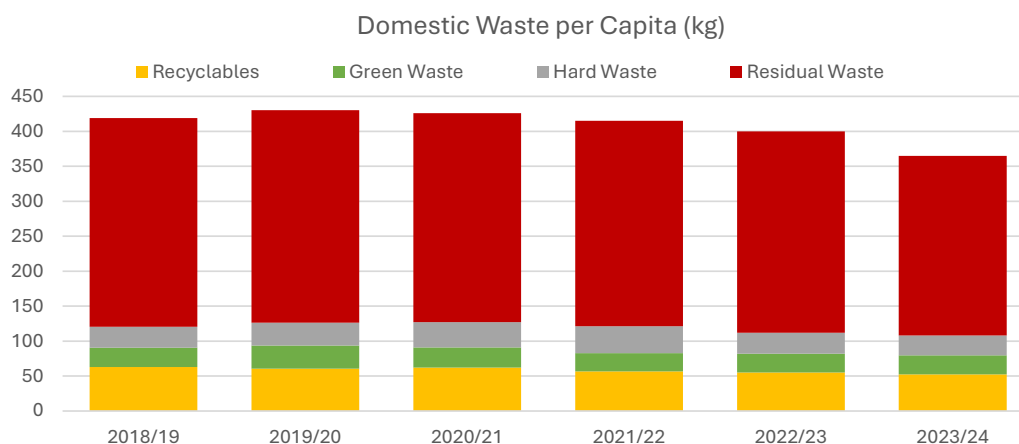




Image 1 – Kwinana Energy Recovery



Image 3 – Containers for Change

RECYCLABLES

What can you recycle? ✓ LOOSE ITEMS, RINSED AND LIDS OFF

Plastic	Paper	Cardboard	Glass	Cans
Rinsed bottles and containers. Please take the lids off.	Office paper, newspapers and magazines.	Flattened boxes, empty cereal boxes and egg cartons.	Rinsed food jars and bottles. Please take the lids off.	Cans, tins, clean aluminium foil and metal lids.

Put in general waste bin

- Items in bags
- Nappies
- Damaged clothing

Drop off at a collection point

- Plastic bags
- Soft plastics
- Batteries
- Electronic waste
- Aerosol cans
- Gas bottles

If in doubt, check it out and visit www.gosnells.wa.gov.au/greatsort for more information.

Image 2 – Waste education



Image 4 – Recycling points



Image 5 – Household hazardous waste

CITY OF GOSNELLS

COMMUNITY WASTE DROP-OFF DAY

Proof of residency is required (a Rates Notice, or driver's licence is acceptable)
Conditions apply and we have the right to refuse acceptance of items not on our list

The City of Gosnells is hosting a community waste drop-off day for residents as part of its commitment to reducing waste to landfill, combat illegal dumping and provide a safe and sustainable way to dispose of hazardous goods.

ONLY THE FOLLOWING ITEMS WILL BE ACCEPTED

HOUSEHOLD HAZARDOUS WASTE

- USED ENGINE OIL (over 10L per household)
- AEROSOLS
- PAINTS AND SOLVENTS (maximum of 5 x 5 litre tins)
- X-RAYS
- GAS BOTTLES (household size)
- FLARES
- SMOKE DETECTORS
- HOUSEHOLD CHEMICALS (including pesticides, cleaning products, pool chemicals)
- ENGINE COOLANTS
- LEAD GEL AND LEAD ACID BATTERIES (car batteries)
- FLUORESCENT GLOBES AND TUBES (not LED / 50 per household)

TYRES

Maximum 4 tyres per household 4x4, motorcycle and passenger vehicle tyres only – no rims

CLOTHING

Accept clothing and accessories

E-WASTE

The following electronic items will be accepted for recycling

- DESKTOP COMPUTERS AND LAPTOPS
- IPODS & MOBILE PHONES
- SCANNERS AND COPIERS
- HARD CD AND FLOPPY DRIVES (computer only)
- COMPUTER SERVER UNITS AND UPS
- SYSTEMS
- PLOTTERS
- INKJET AND LASERJET PRINTERS
- LCD, PLASMA AND CRT MONITORS
- CIRCUIT BOARDS
- LCD AND PLASMA TELEVISIONS
- ELECTRONIC CABLES
- MODEMS AND NETWORK DEVICES
- FAX MACHINES
- KEYBOARDS, MICE AND JOYSTICKS

CARDBOARD AND BULK POLYSTYRENE

Cardboard or polystyrene packaging will be accepted for recycling (no meat trays, cups or other expanded plastics)

WHAT WILL NOT BE ACCEPTED?

- WHITEGOODS (such as air conditioners, fridges and washing machines)
- MATTRESSES
- FURNITURE (not stacked)
- ELECTRICAL ITEMS (not included on the accepted e-waste list)

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WATER

Corporate

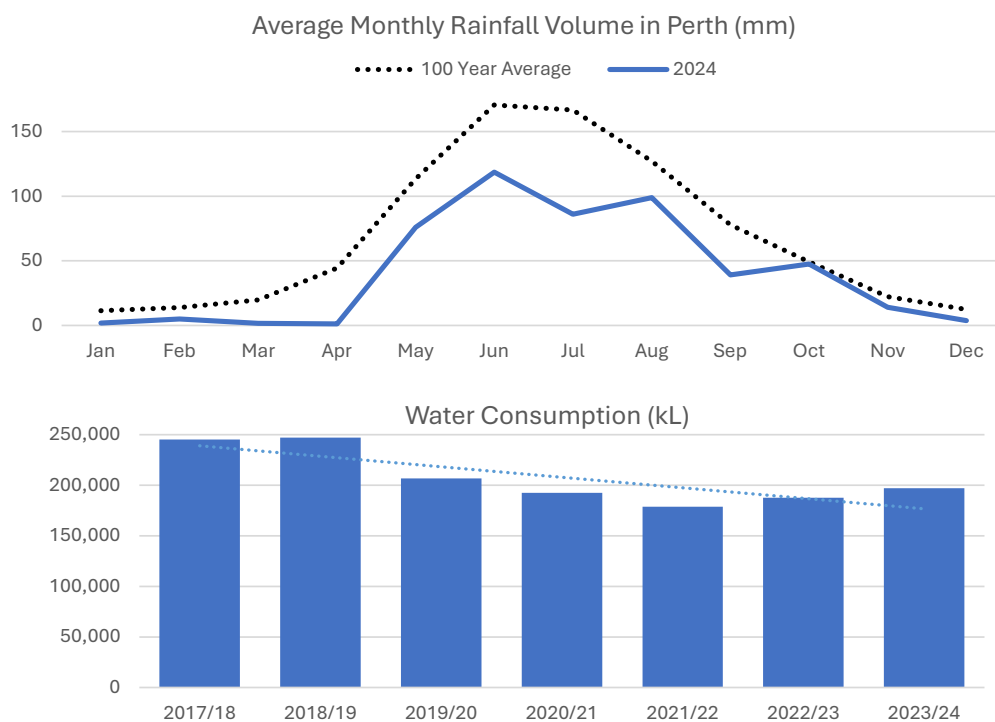
SUBJECT	DETAILS	UPDATE
Irrigation Efficiencies	The City will trial the application of wetting agents through sprinkler systems to improve delivery and reduce water usage.	Five additional fertigation systems have been installed in 2023/24. Implementation will continue through a systematic program.
Waterwise Parks	The City will continue to design parks and reserves to minimise the use of water, through ecozoning, hydrozoning and waterwise species selection.	The program began full implementation in 2023/24.
<i>Where implemented, these upgrades have shown a marked improvement in the presentation and visual appeal of the parks, with an overall decrease in water and power consumption.</i> <i>It is also noted that the reduced areas of turf (eco-zoning) have provided reductions in mowing time while the new bore and irrigation systems require significantly less maintenance.</i> [Monitoring – Image 1]		
Waterwise Council	The City will continue to work with the Water Corporation and the Department of Water and Environmental Regulation to maintain its Waterwise Council endorsement.	The City and the City's aquatic centre, Leisure Word, were both endorsed at a Gold Waterwise level.
NEW ACTION! Rivers Advocacy	Restoring our Rivers campaign.	Along with the South East Corridor Councils Alliance (SECCA), the City of Gosnells lead an advocacy campaign seeking \$10 million in Federal Government funding to restore the Canning, Southern and Wungong rivers.
<i>In 2024, Federal Government announced a funding commitment of \$10 million, to invest in better protecting and preserving the Canning (Djarlgarro Beelier), Southern and Wungong Rivers. This will not only improve ecological health and water quality, but also look after our local native species. The South East Regional Centre for Urban Land Care and the Armadale Gosnells Landcare Group were central to the advocacy campaign.</i> [Monitoring – Image 2]		
Managed Aquifer Recharge	The City will investigate managed aquifer recharge opportunities.	Stage one of the investigation is complete, further detailed design is subject to external funding support.
Bore Renewals	The City will continue to implement a replacement program for old bore equipment to achieve greater efficiencies in water and energy use.	An analysis of two recent pump replacements identified an annual reduction in electricity consumption of between 10 and 26% and a reduction in water use of between 16 and 26%.

WATER

Community

Waterwise Verge	The City will continue to produce Waterwise Verge Guidelines for residents.	The City launched a new 'Waterwise Verge Garden Guide'.
<i>The Waterwise information available on the City's website was revamped in line with the release of the new verge guidelines brochure.</i> [Monitoring – Image 3]		
Waterwise Verges	The City will create waterwise demonstration gardens in public open space, to display best practice.	The City installed a Waterwise demonstration garden at Amherst Village Community Centre.
The garden includes grass trees rehomed from the Southern River Business Park development and informative signage installed in key locations. [Monitoring – Image 4]		
NEW ACTION! Waterwise Communities	The City will support and encourage a Waterwise Community.	The City contacted all schools in the district, not already participating in the Waterwise Schools Program, to promote the initiative. Gosnells Golf Club was also invited to participate in the Waterwise Golf Program.

Monitoring



Highest Asset Scheme Water Consumption (kL)

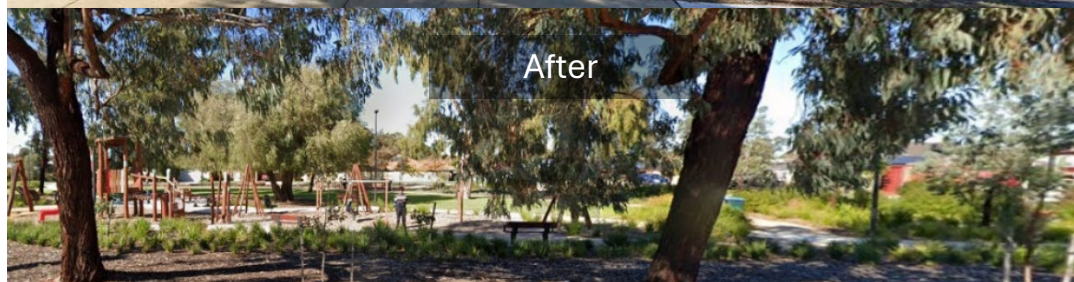
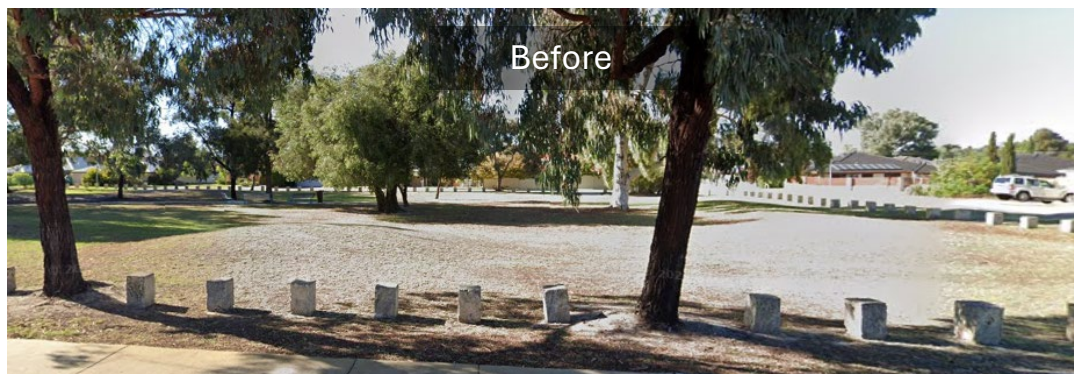
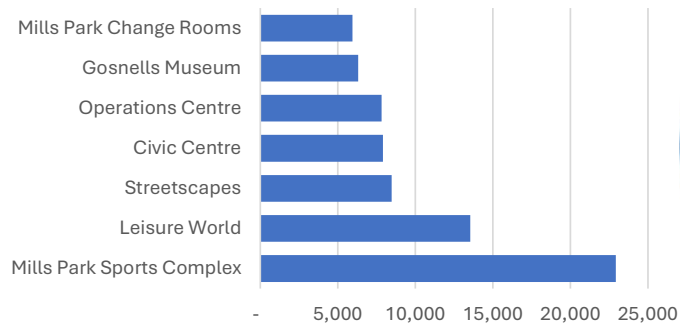


Image 1 – Waterwise Parks, Koorlangka Waabiny green space planning



Image 2 – Rivers advocacy, Cleaning up the Canning

CITY OF GOSNELLS

THE CITY OF GOSNELLS
A PROUD WATERWISE COUNCIL

At the City of Gosnells, we are committed to being a Waterwise Council, and everyone plays a part in conserving and adapting our water usage. With climate change pressing us to rethink our habits, being waterwise has never been more important.

PREPARATION AND MAINTENANCE

Here's a straightforward guide to help you establish native plants. For additional tips, refer to the specific plant information on the other sign.

1. Plant your seedlings or plants in mid-autumn (the Aboriginal season of Djirra) before the winter rains (Mookooloo). Avoid planting during the hottest part of the year to give your plants the best chance of thriving.
2. Water seedlings twice a week during their first summer. Ensure the water reaches the root zone.
3. Improve soil growth by adding vegetable-based compost (without manures). Perth soils often have poor water absorption—use a wetting agent to help with this.
4. Apply a layer of mulch to reduce water loss and suppress weeds as your garden starts.
5. Most native plants are drought-tolerant and don't need watering once established. They are adapted to local conditions and generally don't require fertiliser.
6. As your garden grows, use the 'cut and drop' method for pruning. Allow the leaf and branch material to decompose naturally, enriching the soil with nutrients for your garden.

Did you know that nearly half of our household water is used in our gardens? Opting for waterwise plants is a smart choice – they are low-maintenance and visually appealing!

City of Gosnells
Verge Guidelines

Image 3 – Waterwise verge guidelines

CITY OF GOSNELLS

AMHERST VILLAGE WATERWISE GARDEN

Below is a list of the plants that you can see in this demonstration garden.
All plants included in the garden have very low water requirements, making them perfect for the Western Australian climate.

POLLINATORS
 BIRDS
 REPTILES
 FROGS
 MAMMALS
 FULL SUN
 PART SHADE
 GROUND COVER
 GOOD FOR PETS

Red and Green Kangaroo Paw <i>Anigmomorphus mangrovei</i> Noongar name: Kurlubrang	The Red and Green Kangaroo Paw is perfect for the front of your garden bed and makes a great garden feature. These low maintenance plants thrive without fertiliser and need regular watering to establish. After flowering, grass clippings of the lawn can be used as mulch around the plant for natural composting. They can grow up to 10cm wide and 100cm tall.			Common Aster <i>Asteria saxatilis</i> Noongar name: Kurlubrang	The Common Aster is a medium-sized shrub, which has attractive foliage and lots of star-shaped white flowers in summer. The flowers of the Common Aster can be used as a cut flower in bouquets. Prune shortly after flowering if you prefer a denser, bushier shrub. Can grow up to 1m wide and 1m tall.		
Firewood Banksia (Dwarf) <i>Banksia menziesii</i> Noongar name: Bulgalang	The Firewood Banksia is a small, bushy shrub that grows up to 1m wide and 1m tall. It is a low maintenance plant that thrives without fertiliser and needs regular watering to establish. After flowering, grass clippings of the lawn can be used as mulch around the plant for natural composting. They can grow up to 10cm wide and 100cm tall.			Lemon Scented Myrtle <i>Myrtus cinnamomea</i>	A low spreading shrub with aromatic foliage and small white flowers. The lemon scented myrtle attracts honeyeaters, butterflies and other birds to the garden and is a great ground cover. It is a low maintenance plant that thrives without fertiliser and needs regular watering to establish. After flowering, grass clippings of the lawn can be used as mulch around the plant for natural composting. They can grow up to 10cm wide and 100cm tall.		
Grey Catclaw <i>Conosyris canaliculata</i> and <i>Conosyris aspera</i>	Catclaws are easy to grow, spreading plants with greenish foliage and yellow flowers. These plants grow from underground rhizomes. For some plants, apply a water-soluble fertiliser before planting and a light application of blood and bone during bud production. They grow up to 10cm wide and 100cm tall.			Scaevola <i>Hemionia pumila</i>	The Scaevola is a spreading ground cover from the sand dunes, which flowers in spring and summer, and occasionally throughout the rest of the year. Trim the shrub lightly at the end of summer to promote growth. To water, the plant can be watered. This groundcover can grow up to 1m wide and 10cm tall.		
Kalbarri Carpet <i>Eremophila glabra</i>	An unassuming, evergreen, leafy shrub or ground cover also commonly known as the bush or bush. With olive leaves and yellow-red flowers. These are attractive, midsize to large plants in the front or middle of your garden. Kalbarri Carpet can be maintained in Part drenched design with regular top watering. Can grow up to 1m wide and 1m high.			Hibbertia subvaginata	A low-growing, evergreen shrub that has deep green foliage and produces bright yellow flowers throughout winter and spring. Prune after flowering to maintain shape and promote new growth. Can grow up to 1m wide and 10cm tall.		
Burning Bush <i>Kennedia prostrata</i> Noongar name: Wollong, Kaban	Burning Bush is an easy to grow groundcover with attractive, soft green foliage and red flowers. These plants are tolerant to drought. Burning Bush is a shrubby plant, growing the best plants in the front or middle of your garden. This groundcover can grow up to 1m wide and 10cm high.			Robin Red-Breast Bush <i>Melaleuca lateralis</i>	The Robin Red-Breast Bush is a native shrub that has an abundance of small, star-shaped, red flowers. These shrubs/ground covers will bring benefits to your garden. The shrub is low maintenance and can grow in full sun or part shade. Prune after flowering to maintain shape and promote new growth. Can grow up to 1m wide and 1m tall.		
Grass <i>Xanthorrhoea preissii</i>	Grasses can be planted from seed or transplanted. These ones were transplanted from the Riverina Park for a natural display of the Western Australian landscape. Grasses are the best plants in the front or middle of your garden. This groundcover can grow up to 1m wide and 10cm high.			Native Rosemary <i>Westringia cuneata</i>	Native Rosemary is a small, dense shrub that is native to WA. Very hardy and waterwise, it is a great low-maintenance landscaping plant. Native Rosemary is a shrub that has a natural display of the Western Australian landscape. This groundcover can grow up to 1m wide and 10cm high.		

Image 4 – Waterwise demonstration garden