



# City of Cockburn

## Waste Strategy 2020-2030 (5-Year Review)

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### Acknowledgement of Country

The Mayor, Councillors and staff of the City of Cockburn acknowledge the Whadjuk Nyungar people of Beeliar boodja as the traditional custodians of this land. We pay our respect to the Elders, past and present.

## Executive Summary

The City of Cockburn holds sustainability as a key strategic value, and is committed to the responsible collection, processing and disposal of waste on behalf of the wider community.

Sustainable waste management requires a strategic approach to ensure the best economic, social and environmental outcomes.

The City is responsible for the collection and disposal of kerbside and verge side general waste, recyclables and garden organics from its approximately 49,000 households. It also owns and operates the Henderson Waste Recovery Park (HWRP), which processes community drop-off materials, hazardous household waste (HHW), e-waste, construction and demolition (C&D) waste, commercial and industrial (C&I) waste and other problematic items, such as tyres and mattresses.

This Strategy and the associated Implementation Plan (Annex 1) align with the key objectives of the State Government's Waste Avoidance and Resource Recovery Strategy 2030, which is considered in all decision-making relating to waste management in the City:

### **Objective 1 – Avoid**

Generate less waste

### **Objective 2 – Recover**

Recover more value and resources from waste

### **Objective 3 – Protect**

Protect the environment by managing waste responsibly

This five-year revision of the Strategy has provided the opportunity to update the content and report on the status of the actions identified in the Implementation Plan. Twenty two (22) actions were identified in the Implementation Plan at the commencement of this Strategy Review, of which nine (9) have been closed and seven (7) are ongoing and have been updated. The remaining six (6) actions relating to long-term infrastructure planning at the HWRP have been replaced with a new action to develop Masterplan for the site. One new action has been created in relation to waste auditing.

This five-year revision of the Strategy focuses on maintaining the high-level of sustainable waste management services provided by the City and addresses the transition to energy recovery facilities for general waste processing, the future of the HWRP, and community consultation on the City's verge side collection system.

Communication and education around sustainable waste practices is integral to meeting the objectives and targets outlined in this Strategy. A significantly reduced waste education and community engagement program is embedded in activities across the Strategy and Implementation Plan to reach a wide demographic through a variety of channels. The program is designed to meet changing needs of the waste sector and the community over the life of the Strategy. It seeks to help residents, visitors and businesses to understand their role in sustainable waste management.

The Implementation Plan, also referred to as the City of Cockburn Waste Plan by the Department of Water and Environmental Regulation (DWER), will be reviewed annually in accordance with regulatory requirements. The associated budget will also be reviewed annually to ensure a proactive and flexible approach. The Strategy itself will be reviewed in the next five years before the end of the current implementation period (2030).



**Figure 1: New Leachate Pond C - Henderson Waste Recovery Park**

## Introduction

The City of Cockburn, like many other metropolitan local governments in Western Australia, is facing challenges in the management of solid waste resulting from:

- Population rise leading to increased waste generation;
- Limitations of existing resource recovery facilities;
- Decreasing availability of landfill space;
- The growing significance of sustainable practices and climate change; and
- Lack of consistency and community understanding regarding waste management approaches.

The City's population at the commencement of the Strategy was 118,091 and is projected to increase to approximately 140,000 by 2030. At the five-year review date, the population was estimated to be approximately 134,000.

While efforts to minimise the use of resources are gaining momentum, waste generation in the City is not decreasing significantly (585 kg/household in 2015 and 555 kg/household in 2024). This coincides with a landfill levy (in April 2025) of \$85 per tonne in Western Australia and finite remaining landfill capacity in the metropolitan area, including at HWRP. The City is responsible for ensuring that waste is suitably managed in the long term to ensure effective and economic resource recovery and minimisation of resource loss.

This Strategy provides a clear direction and a coordinated approach to effectively manage the long-term sustainability of waste practices in the City. While waste management is an issue of national, state and local significance, the City prides itself on providing the best services to its ratepayers by ensuring that appropriate funds are directed to waste management, in line with the overarching City of Cockburn Strategic Community Plan 2020-2030. The City recognises its responsibility to support state and national government solutions to ensure optimum results for the community.



# Existing Waste Services

The City’s current and continuing waste services:

SERVICES	DETAILS
 <p>Red top 240L or 140L Bin – General Waste (MSW) Collection</p>	<p>Weekly Energy from waste converts MSW to energy</p> 
 <p>Yellow top 240L Bin – Recycling Collection</p>	<p>Weekly Recyclables processed in a Materials Recovery Facility (MRF)</p> 
 <p>Lime green top 240L Bin – Garden Waste Collection</p>	<p>Fortnightly Eligible properties only. Garden Waste processed into compost by contractor and returned to Henderson Waste Recovery Park for free use by residents.</p> 
 <p>Junk Kerbside Collection</p>	<p>Two per year</p> 
 <p>Green Waste Kerbside Collection</p>	<p>Two per year</p> 
 <p>Trailer passes for HWRP</p>	<p>Six per year</p> 

Figure 2: City of Cockburn waste services

## Review of Achievements to Date

Since the implementation of the Strategy in 2020, the City has delivered a suite of successful waste management programs and projects, including:

- **Development of HWRP:** The City has prioritised essential works at the HWRP, including construction of new leachate ponds and establishing a new community waste drop-off transfer station.
- **Waste Management Services:** The City signed a 20-year contract for the City's energy recovery future for general waste and residual waste streams and outsourced the processing of comingled recyclables.
- **Organic Waste Recovery:** Implemented a three-bin GO system at over 30,000 properties and successfully trialled a commercial food waste service, which proved to be unsustainable.
- **Waste Wise Events Policy Implementation:** In a pioneering move, the City launched its new Waste Wise Events Policy for the 2023-24 events season. This initiative aimed to drastically reduce waste produced during community events, setting an industry standard for sustainability. Through collaboration with event partners, the City established guidelines that prioritised the use of reusable and compostable materials.
- **Waste Sorted Grants:** The City secured a Waste Sorted Grant of approximately \$8,000 to conduct a series of workshops focused on textile waste reduction. This funding facilitated the purchase of equipment that community members can hire for free, encouraging local residents to actively participate in textile recycling efforts.
- **Reusable Sanitary Product Rebate Uptake:** The City noted a significant uptake in the reusable sanitary product rebate program, reflecting a growing community commitment to sustainable practices and reducing waste in personal hygiene products.
- **Reclaim The Void Project:** The Waste Education Team successfully hosted the Reclaim The Void Project, which fostered community involvement in waste education and sustainable practices. The project was well-received, showcasing the City's commitment to collaboration and education in waste management.
- **Establishment of the Sustainability and Environment Reference Group (SERG):** In 2023-24, the City established the SERG, providing a platform for community and industry representatives to advise the Council on strategic matters relating to environmental sustainability. This initiative fosters collaboration and ensures that diverse perspectives are included in decision-making processes.

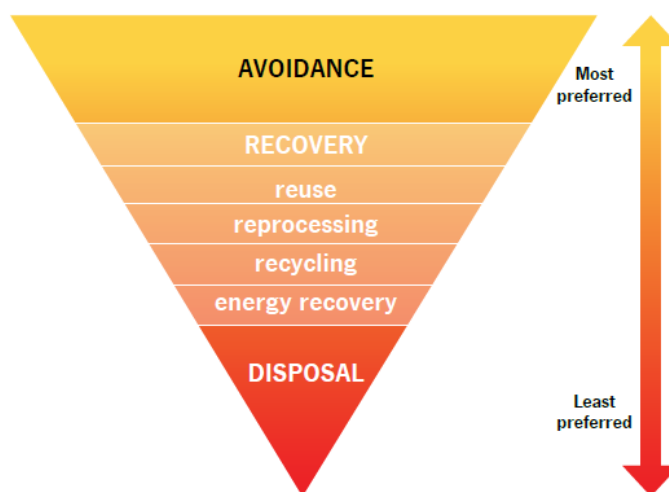


## Vision, Values and Mission

The City's vision is "*Cockburn, the best place to be*" and purpose is to "*Support our communities to thrive by providing inclusive and sustainable services which reflect their aspirations*". Sustainability is one of five values the City has adopted that influence its culture and assist delivery of its vision and remains a key strategic value for this Strategy.

The City's mission for the remainder of the Strategy to 2030 is to focus on maintaining the existing high-level of sustainable waste management services for the community whilst supporting residents to reduce waste generation and increase recycling.

The City has adopted the Western Australian State Government's Waste Hierarchy, which provides a framework for prioritising waste practices to achieve the best environmental, economic and social outcomes:



**Figure 3: Waste hierarchy**

The waste hierarchy recognises the City's priority of avoidance of waste generation. Recovery, reuse, reprocessing and recycling of valuable materials are vital where waste production is unavoidable.

Disposal to landfill is the least favourable outcome in the hierarchy; with the City's Climate Change Strategy 2020-2030 having an aspirational target of zero, non-hazardous, waste to landfill by 2030.

The City will continue to work towards meeting the targets set by State Government and continue providing inclusive and sustainable waste management services.

## Links to the Strategic Community Plan 2020-2030

The City of Cockburn Strategic Community Plan 2020-2030 articulates an overarching vision for where the City wishes to be by 2030. It includes five strategic outcomes for the City, each accompanied by an associated strategic objective. This Strategy is specifically aligned to four of these strategic outcomes (as per Table 1):

**Table 1**

Outcome	Strategic objective	
Local Economy	1.5	Support and promote the benefits of buying locally
Environmental Responsibility	2.1	Sustainably manage water, energy and other resources and promote the use of environmentally responsible technologies
Community, Lifestyle and Security	2.5	Minimise the City's waste to landfill through reducing, reusing, re-purposing, re-gifting and recycling of waste
Listening and Leading	2.6	Reduce adverse outcomes arising from climate change through planning, adaption, mitigation, infrastructure and ecological management

The City's Long Term Financial Plan 2024-2025 to 2033-2034 details what is proposed over the next ten years as a means of ensuring the City's long-term financial sustainability.

The Corporate Business Plan provides the operational link between the Strategic Community Plan and Long-Term Financial Plan.

From these planning processes, annual budgets are developed for specific projects to achieve the Strategic Community Plan objectives.

This Strategy is also aligned with the State Government's Waste Avoidance and Resource Recovery Strategy 2030 through the Implementation Plan (Appendix 1).

## Waste Strategy Objectives

The City will implement this Strategy through the delivery of the following objectives. Individual actions have been identified to meet these objectives in the Implementation Plan (Appendix 1).

### Objective 1 – Avoid and generate less waste

There is growing awareness that the production of waste through inferior quality products, aggressive advertising, designed obsolescence and excessive packaging leads to cycles of consumerism and increased waste generation rates.

The City will address this issue through support and implementation of extended producer responsibility, product stewardship programs and education programs to reduce both its own waste production and that of the wider community.

#### Waste Reduction and Education Programs

Key actions associated with this objective include the introduction of a smaller 140L general with those eligible properties receiving the 3 bin Garden Organics service to encourage a reduction in the volume of waste being sent to landfill or energy recovery facilities. This also acts as a powerful symbol regarding the importance of reducing general waste, given the non-renewable resources and embodied energy that are lost once a product is placed in this bin.

Ongoing waste education programs will assist the community in identifying which waste items should be disposed of in a more efficient manner. Waste communication campaigns will continue to work towards increasing recognition of the resource value of waste to inspire the community to reduce their waste production.

The five-year review of the Strategy identified that moving to a pre-booked verge collection service could reduce waste generation and increase resource recovery rates, with community consultation to follow on the most advantageous service.



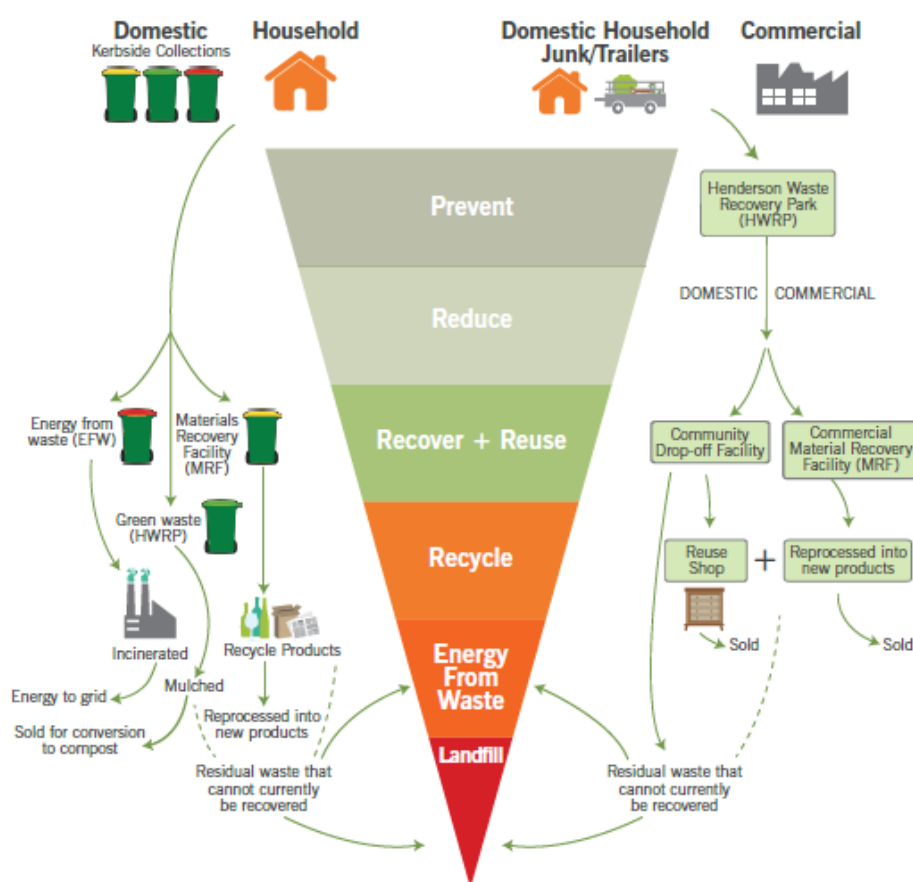
**Figure 4: City of Cockburn Community Waste Education Officers provide waste education stalls at all major community events.**

## Objective 2 – Recover more value and resources form waste

The City is responsible for processing the community's waste in the most environmentally and financially responsible manner, with key resource recovery actions outlined below.

### Development of Henderson Waste Recovery Park

Developing the HWRP for the sustainable long-term management of waste remains a priority and focus of the Strategy. The resource recovery cycle for the City's waste services is summarised in the image below.



**Figure 5: Resource recovery cycle**

The future development strategy for the HWRP was outlined in the Cockburn Resource Recovery Park Business Case, which proposed a community drop-off facility, weighbridge, reuse-shop, administration building, and education centre. However, implementation of the business case has been impacted by several issues, including delays in commencement of energy recovery facilities, construction of new leachate ponds and limited remaining life of the landfill (~five years).



Given the above issues, the City conducted a review of the Business Case concurrent with the five-year review of the Strategy, which identified that the proposed development strategy did not provide best value for the community. As an outcome of the review, the City will develop a new Masterplan for the HWRP that will include a transitional operation plan for the remaining life of the landfill.

The Masterplan will also include the development of areas that can be leased to third parties for complementary activities that enable diversion of waste streams away from landfill into reprocessing and reuse, including inert waste, scrap metal, green waste, timber, paper and e-waste.

In the interim, the City has developed a new community waste drop-off transfer station at the HWRP. The new facility provides a purpose-built area for the safe disposal and recovery of residential waste. The relocation of the facility from operational areas has also released more landfill capacity to allow continuation of the landfill, which provides an important service to the community and income for the City.



**Figure 6: Image of the Henderson Waste Recovery Park Community Transfer Station**

## **Waste Education**

To prevent the creation of waste, promote resource recovery, and highlight the negative environmental consequences of consumerism, the City recognises the importance of providing education services to the community as an integral component of its waste



management services. Critically, the importance of individual responsibility must be emphasised, as sustainable waste management begins with each member of the community. The City will continue to ensure the community is provided with both the relevant information to make informed decisions and the resources to contribute to sustainable waste management outcomes.

Waste communications, though now limited, will continue to be developed to provide the City's waste education offerings across schools, community events and City facilities. Importantly, the communications will seek to educate people through a consistent approach with State Government campaigns such as the 'WasteSorted' program.



**Figure 7: Bobby the Bin providing waste education to the community**

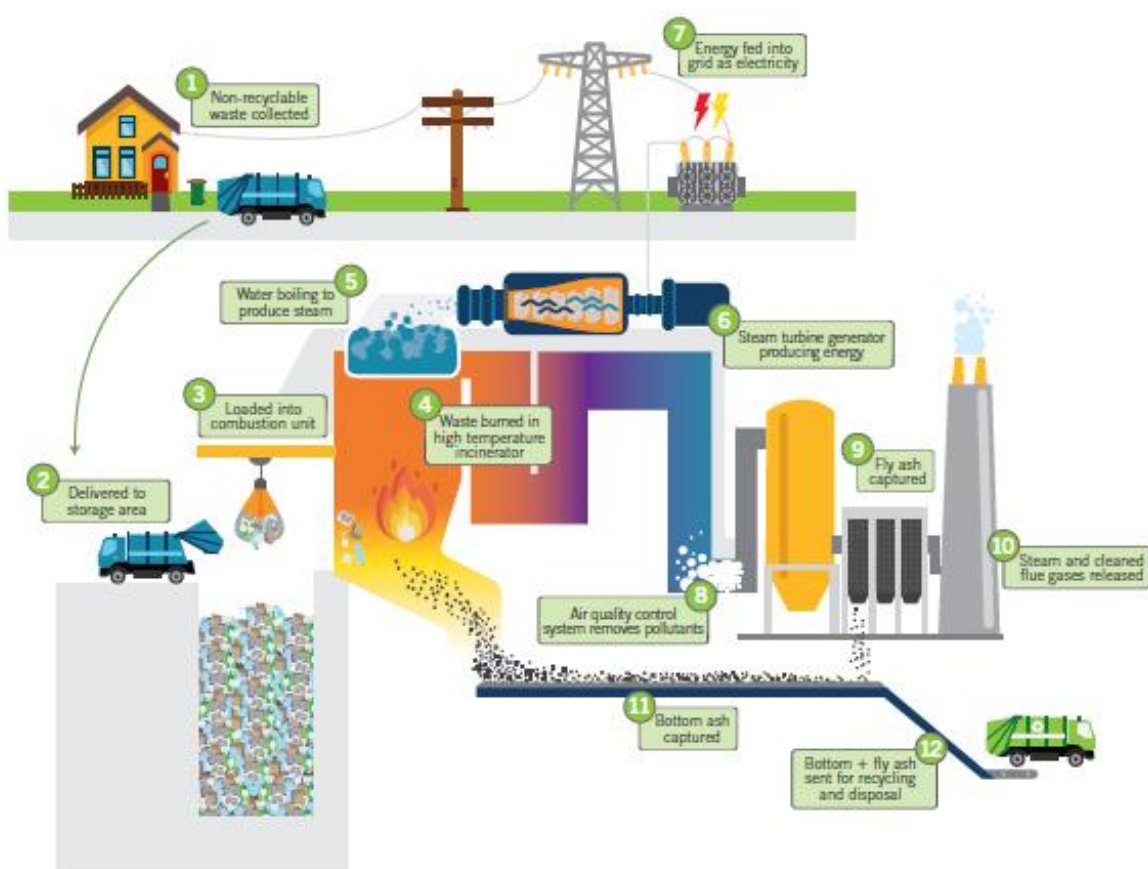
## **Energy Recovery**

Energy recovery facilities play an important role in the broader waste management system. The East Rockingham and Kwinana energy recovery facilities are scheduled for commissioning by late 2025. These are the first large-scale energy recovery facilities to be

built in Australia. The City has awarded a Waste Supply Agreement to East Rockingham RRF (Resource Recovery Facility), which is constructing the energy recovery facility.

The energy recovery facilities recover the energy stored in waste and feed it back into Perth's power grid. They are expected to have a combined generation capacity of 66 MW and produce over 500,000 MWh of electricity, enough to power 91,000 Perth homes for the life of the projects (which is nominally 30 years).

The image below outlines how energy recovery facilities convert general and residual waste into energy.



**Figure 8: Energy recovery facility operation**

## Food Waste Collection Service

Options for the recovery of domestic food waste will continue to be considered, including the potential to convert the City's Garden Organics (GO) bins to Food Organics and Garden Organics (FOGO) bins should collection and processing of this material become operationally and financially viable.



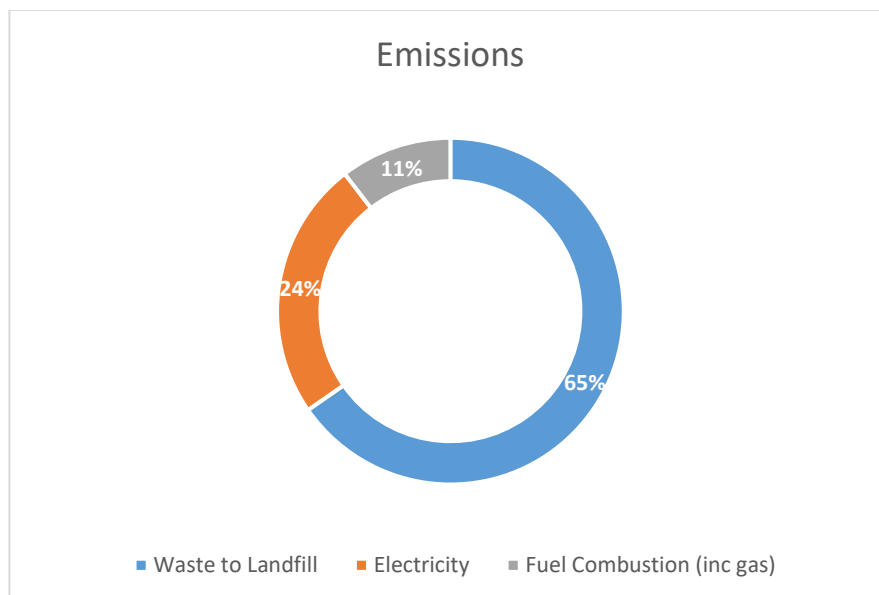
**Figure 9: City of Cockburn garden waste is transported to a commercial composting facility for processing**

## Objective 3 - Protect the environment by managing waste responsibly

The City of Cockburn is committed to excellence in the protection of the natural environment. Key actions to achieve this objective are outlined below.

### Climate Change Impact

Most of the City's greenhouse gas emissions (33,766 tCO<sub>2</sub>e) are generated from solid waste to landfill at the HWRP. The figure below shows that 65% of the City's corporate emissions are produced from waste to landfill, with 24% from electricity consumption and 11% from fuel combustion for facilities and fleet.



**Figure 10: City of Cockburn FY 2024 greenhouse gas emissions by source**

The City's Climate Change Strategy 2020–2030 includes ten actions related to waste management, including the aspirational target for 100% of non-hazardous waste to be diverted from landfill by 2030. The City aims to further reduce greenhouse gas emissions by capping both the northern and southern landfill cells and continuing to extract methane gas for combustion and conversion into grid electricity.

Increasing renewable energy generation across the HWRP will continue to be investigated and implemented where feasible.





**Figure 11: Solar photovoltaic system (130kW), Cockburn Health and Community Facility**

## Pollution Management

The HWRP is subject to stringent environmental management requirements from the State Government and is regulated by DWER. Key actions to mitigate pollution at HWRP include:

- Pests and vermin are managed on an ongoing basis;
- Relining of existing leachate ponds, installation of leachate evaporation plant and construction of new leachate ponds;
- Ongoing groundwater monitoring program, which will continue after the closure of the landfill cells to ensure long-term pollution control; and
- Mobile litter fencing is maintained to ensure that waste is not able to leave the site boundary.

The City has limited capacity to work on preventing littering and illegal dumping in the community. The City's mapping system allows detailed tracking of dumping offences, which facilitates the development of targeted solutions.



**Figure 12: Litter found on City of Cockburn beaches**

## Summary of Community Consultation

Historic customer surveys continue to record high satisfaction rates with both the Waste Collection Service (kerbside collection and bulk verge service) and the HWRP. These historic surveys rated the kerbside and verge side services highly. This result has remained constant for many years.

The results from the Customer Satisfaction Survey for HWRP have the commercial customers rating the service as 100% and the domestic customers as 98%. This means that 98% of the respondents rate the service 7 or more out of 10. The survey also revealed that both the commercial and domestic customers rated the service highly with 76.5% of respondents scoring the Site at 9 or 10 out of 10.

As part of the five-year review of the Strategy, the City engaged with internal staff and consulted with Elected Members through a briefing on the outcomes of the review and a waste strategic priority setting workshop.

Community consultation will continue to be an important part of the Strategy, especially where changes to waste management services are proposed. Whilst the five-year review determined to maintain the existing high-level of waste management services provided to the community, the City will conduct community consultation to investigate options for the bulk verge waste collection system.



## Resourcing the Plan

The Waste Strategy has been fully costed and is reflected in the Long-Term Financial Plan 2024-2025 to 2033-2034, Workforce Plan 2022-2026 and annual budgets. Labour costs and staffing resources have been considered, and capital and operational costs have been detailed. The Strategy will be resourced through reserve funding, grant contributions and ongoing municipal contributions.

Market competition and the introduction of the energy recovery facilities will likely result in reduction of waste tonnes received at the HWRP and corresponding reduction in income for the City. The resourcing requirement for this strategy has taken these impacts into consideration ensuring financial sustainability.

Significant reserve funds will be required in the next decade to cap the landfill cells and ensure post closure management. The Long-Term Financial Plan 2024-2025 to 2033-2034 includes these costs, derived from the Landfill Rehabilitation Model.



**Figure 13: Bike recycling at Henderson Waste Recovery Park.**

## Performance Measures and Targets

Progress against this Strategy is reviewed in the City's Annual Report and annual State of Sustainability Report. The City has developed targets for waste avoidance and resource recovery. These targets will be realised through ongoing leadership, financial commitment and effective implementation actions, as outlined in Appendix 1.

The five-year review also provided the opportunity to report on the implementation status of the Strategy and actions identified in the Implementation Plan.

### Measurement 1 – Waste Avoidance

The State Government's Waste Avoidance and Resource Recovery Strategy 2030 sets a target for the reduction in municipal solid waste generation per capita by 10% in 2030, based on a 2014/15 baseline.

Waste generation figures include waste from:

- Kerbside bins (general waste, recycling and garden organics);
- Bulk verge collections;
- Residential drop off to Henderson Waste Recovery Park;
- Public place bins; and
- Events bins.

Through the five-year review, the City has committed to meeting the State Government target by the end of the Strategy implementation period (2030). The City's actual waste generation rates and target are shown in Table 2.

**Table 2: City of Cockburn Waste Avoidance Target**

	Actual waste generation			Avoidance target
	2014-2015 baseline	2020-2021	2023-2024	10% reduction by 2030
<b>Waste generation per capita per year (kg)</b>	585	570	555	497

## Measurement 2 – Waste Recovery

The City's overall material recovery targets for 2025 and 2030 are in line with the State Government's targets as outlined in the Waste Avoidance and Resource Recovery Strategy 2030 (Table 3).

**Table 3: Western Australia and City of Cockburn community material recovery targets**

	Actual waste generation		Recovery target	
	2020-2021	2023-2024	2025	2030
<b>Waste recovery rate</b>	30%	30%	70%	75%

Waste recovery rates are expected to increase with the commencement of general waste deliveries to the East Rockingham Waste Recovery Facility in 2025.



**Figure 1: City of Cockburn Reuse Shop, Henderson Waste Recovery Park**



## Risks

Strategic risks relating to waste management have been identified in the City's Corporate Risk Management Framework and the 5 year review of the Strategy, as follows:

- Introduction of energy recovery facilities and implications for volumes of waste accepted at HWRP;
- Delays in the commencement of the East Rockingham energy recovery facility accepting the City's waste;
- Changes in legislation (e.g., to mandate waste avoidance and recovery targets or change waste levy obligations);
- Failure to adequately provide for ongoing management of the HWRP, including post-closure responsibilities of the landfill;
- Unacceptable environmental impacts due to activities at the HWRP;
- Inability to collect household waste and operate the HWRP, including the provision of community drop-off facilities;
- Lack of engagement with and education of the community regarding waste avoidance and recovery;
- Outcomes of public consultation on verge bulk waste collection services;
- Ability to attract and retain trained and experienced waste services employees; and
- Failure to maintain financial sustainability of waste services unit.

The City has considered these risks in the development of this Strategy and associated Implementation Plan and aims to mitigate these risks as far as is reasonably practical.



**Figure 2: Event bins at Bibra Lake Fun Run**

# Annex 1 – Implementation Plan

Table 4 outlines the actions which the City of Cockburn will take over the next five years to contribute to the achievement of relevant Waste Strategy objectives and targets. This Implementation Plan is based on the approved City of Cockburn Waste Plan (Part 2-Implementation Plan), September 2020.

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**Table 4: Implementation Plan**

Waste Management Tool	Action	Detailed actions/sub-actions	Milestones	Target	Timeframe for delivery (completion date)	Implementation cost	Aligns to Waste Strategy Objective/s			Responsibility for implementation	Status of action at five-year review
							Avoid	Recover	Protect		
<b>Behaviour change programs and initiatives</b>	Implement waste education campaign including school waste education programs, waste education workshops and events, community tours to HWRP, Council staff waste education programs and Council recycling facilities	Resource Recovery Calendars; Deliver 6 HWRP tours for school groups; Deliver 4 incursions to schools;	2. Review website monthly to ensure A-Z of waste is up to date with Consistent Communications updates. 3. Incorporate WasteSorted toolkit resources onto all applicable materials. 4. Prepare and distribute resource recovery calendar to residents annually by 1 July. 5. 6 HWRP tours in 2025/26. 6. 4 incursions in 2025/26. 7	12% domestic per-capita waste reduction by 2025 (on 2014-15 baseline). 67% overall domestic material + energy recovery by 2026 (on 2014-15 baseline). Ensure at least 20% of Sustainable Living Events are waste-related.	2024/25	Y – OP	X			Waste Education Coordinator	Ongoing-updated
	Fully fund a permanent Waste Education Officer	Add Waste Education Officer position to Workforce Plan and secure budget.	Workforce plan approval by March 2026.	Waste Education Officer to be in role by end 2027	2026/27	Y – OP	X			Waste Manager	Ongoing and updated
	Encourage and promote waste initiatives via the Sustainability Grants Program	Continue to support waste-related grant proposals.	Review and assess Sustainability Grant Proposals in March annually.	20% of all grants issued to address waste-related issues.	Ongoing	N/A	X			Waste Education Coordinator	Ongoing-updated
	Review the feasibility of creating waste virtual tours	Investigate the possibility of producing virtual tours of HWRP to be delivered from the Waste Education Centre or online.	Decision to be made on feasibility of creating a virtual tour prior to development of interpretive signage	Feasibility study to be completed by end 2022/23	2022/23	N/A	X			Waste Education Coordinator	Closed



Waste Management Tool	Action	Detailed actions/sub-actions	Milestones	Target	Timeframe for delivery (completion date)	Implementation cost	Aligns to Waste Strategy Objective/s			Responsibility for implementation	Status of action at five-year review
							Avoid	Recover	Protect		
	Review the feasibility of adopting a WALGA endorsed Waste App to reduce printing	Engage with community on preferences for waste information by including a question in community survey; Review community feedback, costs and benefits; Prepare report to executive with recommendation.	Report to council for decision on utilising externally developed Waste App by end 2021/22.	If approved, app to be rolled out before start of 2022/23.	2022/23	N/A	X			Waste Education Coordinator	Closed
	Identify new business and residents through the 'New Bin Request System' for distribution of waste education information	Investigate opportunity to provide waste separation and disposal information to residents when new bins are delivered.	Liaise with Waste Collection Team to ensure that waste education materials are provided to all new household by July 2030.	System for providing information to new residents to be operational by July 2030.	2030	N/A		X		Waste Collection Coordinator	Ongoing-updated
	Continue to implement a preventative Illegal Dumping Program	<ul style="list-style-type: none"> <li>- Development of new system for capturing illegal dumping data through ESRI system;</li> <li>- Roll out tablets to illegal dumping crew to receive jobs and capture data;</li> <li>- Continue attending Roundtable on Illegal Dumping meetings;</li> <li>- Continue engaging with internal illegal dumping working group.</li> </ul>	<p>New illegal dumping data capture system to be developed by end 2020/21.</p> <p>2021/22 to form new baseline for ongoing measurement.</p>	10% reduction in illegal dumping by 2030 based on 2021/22 baseline.	New data system to be completed by end 2030	N/A			X	Waste Collection Services	Ongoing-updated

Waste Management Tool	Action	Detailed actions/sub-actions	Milestones	Target	Timeframe for delivery (completion date)	Implementation cost	Aligns to Waste Strategy Objective/s			Responsibility for implementation	Status of action at five-year review
							Avoid	Recover	Protect		
Policies and Procurement	Ensure all City tender documents allow for the consideration of reuse of recycled products e.g. road base.	Develop working group to consider how best to encourage inclusion of recycled products into tenders and RFQ's.	Working group members to be identified and approached by January 2022.	Working group to be established before end 2021/22.	Ongoing	N/A		X		Procurement Team	Closed
	Trial the use of an electric waste truck.	Purchase and commission an electric waste truck; Review performance, costs and benefits and report to Executive.	Electric vehicle to be in operation by 1 July 2020.	Report to Executive by end 2020/21.	2020/21	Y-CW			X	Waste Collection Services	Closed
	Continue to investigate options for the use of hydrogen powered and alternate fuel waste trucks.	Follow the progress of national and international waste truck trials	As required	Present proposals when proven sustainable and beneficial	ongoing	N/A			X	Waste and Fleet Manager	Ongoing and Updated
Waste Services	Develop business case for the introduction of financial incentives to reduce domestic general waste bins to 140L in those on the 2 bin system.	Research costs and benefits of reducing the size of the 240L general waste bin to 140L. Prepare report to council.	1. Develop business case and report to Council on costs and benefits of reducing size of general waste bins to 140L for properties on 2 bin system. 2. If approved by Council, coordinate rollout of 140L general waste bin.	Report delivered to Council by end 2023/24. Action discarded due to inability to be supported by the City's Rates Department.	2023/24	Y – OP	X			Waste Manager	Closed
	Consult community on the bulk verge collection service.	Provide the results to Council for consideration.	Develop consultation plan by 1 September 2025 in association with Community Engagement Team.	Consultation to be completed by end 2025.	2025	Y -OP	X			Community Engagement Team	Ongoing-updated

Waste Management Tool	Action	Detailed actions/sub-actions	Milestones	Target	Timeframe for delivery (completion date)	Implementation cost	Aligns to Waste Strategy Objective/s			Responsibility for implementation	Status of action at five-year review
							Avoid	Recover	Protect		
	Undertake a FOGO feasibility assessment in the 2022/23 financial year.	Feasibility assessment to include an assessment of the technology available for processing FOGO and the viability of this service. The feasibility assessment will inform the City on its next steps in regards to a FOGO service, ensure time is available to implement any change before the 2025 Waste Strategy deadline, if this is recommended.	Feasibility study to be commissioned by 1 January 2023.	Feasibility study to be completed by 30 June 2023.	2022/23	Y – OP		X		Waste Manager	Closed
	Conduct commercial food waste trial.	Roll out commercial food waste trial to agreed participants by end 2019/20; Review results and submit report to Council.	Grant was extended by 6 months to account for commercial food waste business closures due to COVID-19. 1. Training of businesses to commence June 2020. 2. Bins to be provided and trial commenced by end July 2020.	Commercial food waste trial to be completed by 30 November 2020.	30-Nov-20	Y – OP		X		Waste Manager	Closed
Data	Conduct a waste audit to determine concentrations of organics of C & I at HWRP.	Appoint consultant; Conduct site survey; Report delivery.	DWER Consultant to undertake the audit in May 2025	Report delivered by end 25.	2024/25	Y – OP			X	DWER	New

Waste Management Tool	Action	Detailed actions/sub-actions	Milestones	Target	Timeframe for delivery (completion date)	Implementation cost	Aligns to Waste Strategy Objective/s			Responsibility for implementation	Status of action at five-year review
							Avoid	Recover	Protect		
	Investigate deployment of technology to assist in the reduction of illegal dumping.	Investigate options such as CCTV for sites regularly used for illegal dumping.	Feasibility study to commence start 2021/22.	Feasibility study to be completed by end 2021/22.	2021/22	N/A			X	Business Systems	Closed
Waste Infrastructure	Plan and open the Cockburn Resource Recovery Precinct at the Henderson Waste Recovery Park site.	Detailed design to be completed; Construction.	1. Detailed design to be completed by December 2020. 2. Construct a covered Transfer Station, community drop off facility, Reuse Shop and waste education centre. 3. Design and manufacture interpretive signage and education resources. 4. Develop leased land.	New site to be completed by 2022.	2021/22	Y – CW					Closed
	Develop master plan for ongoing operation for Henderson Waste Recovery Park	Prepare Masterplan for HWRP to include: <ul style="list-style-type: none"> <li>A transitional operation plan for the remaining life of the landfill;</li> <li>Use of future development/ lease areas for community drop-off and other synergistic activities in the context of the other waste management services provided by the City.</li> </ul>	Develop Masterplan and report to Council	Report delivered to Council by end 2025/26	2025/26	Y-CW	X	X	X	Waste and Fleet Manager	New

Waste Management Tool	Action	Detailed actions/sub-actions	Milestones	Target	Timeframe for delivery (completion date)	Implementation cost	Aligns to Waste Strategy Objective/s			Responsibility for implementation	Status of action at five-year review
							Avoid	Recover	Protect		
	Final cover and capping of Northern and Southern Landfills.	Utilise available airspace Final capping of Northern Landfill – 170,500m <sup>2</sup> ; Final capping of Southern Landfill – 94,600m <sup>2</sup> .	Develop strategies to attract waste tonnes to fully utilise available airspace.	Final cover and capping to commence from 2025 and 2028, when landfill cells are fully utilised.	2025 onwards	Y - CW			X	Waste Disposal Services	New incorporate into new action for Masterplan
	Invest in onsite renewable energy generation.	Review consultant's report on Cockburn Energy Precinct.	Consider options post capping of all capped landfill cells .	Decision to be made on renewable energy options for capped cell 6 by end 2029.	2027 onwards	Y – CW			X	Waste Disposal Services	New incorporate into new action for Masterplan
	Relining of leachate ponds A and B.	Review pond liner performance and renew as required.	Pond liner to be replaced after 23 years.	Replace leachate pond liners in 2035.	2035	Y – CW			X	Waste Disposal Services	New incorporate into new action for Masterplan
	Post closure management of Cells 1-7.	Review cover and capping layers weekly for 30 years to ensure cover and capping layers are stabilised.	As cells are covered and capped, post closure management reviews to commence.	All cell covering and capping to be stable for 30-years post closure (closure dates variable depending on cell).	2027 onwards	Y – CW			X	Waste Disposal Services	New incorporate into new action for Masterplan

## Contact Us

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