2021-2031

City of Ipswich

Draft Resource Recovery Strategy

Ipswich.qld.gov.au

City of Ipswich

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WHY DOES IPSWICH NEED A RESOURCE RECOVERY STRATEGY?

UNDERSTANDING THE REASONS FOR STRATEGIC MANAGEMENT OF IPSWICH'S WASTE

There are five important reasons Ipswich needs a Resource Recovery Strategy:

1. Meeting requirements of legislation
2. Demands of population growth
3. Responsible financial management
4. Improving council services and infrastructure
5. Caring for the environment

MEETING THE REQUIREMENTS OF LEGISLATION

All local governments in Queensland have a legal requirement to have a waste reduction and recycling plan under the *Waste Reduction and Recycling Act 2011 (Qld)*. Ipswich City Council's plan is calleded the Resource Recovery Strategy.

A lot has changed since Ipswich first adopted its waste reduction and recycling plan in 2017 (previously call the Materials Recovery Plan). Changes include: international and national bans on exporting waste and recyclable materials, introduction of new schemes such as Containers for Change, the Queensland Government's Waste Levy, and adoption by the State and Federal Governments of ambitious waste recycling and reduction targets.

The Queensland Government's waste recycling and reduction targets require our City to:

DECREASE OUR CITY'S OVERALL WASTE GENERATION (MUNICIPAL SOLID WASTE - MSW)* BY:	▪ 10% by 2025 ▪ 15% by 2030 ▪ 20% by 2040 ▪ 25% by 2050
DIVERT OUR CITY'S WASTE (MSW) FROM LANDFILL BY A TOTAL OF:	▪ 55% by 2025 ▪ 70% by 2030 ▪ 90% by 2040 ▪ 95% by 2050
INCREASE RECYCLING OF OUR CITY'S WASTE (MSW) BY:	▪ 50% by 2025 ▪ 60% by 2030 ▪ 65% by 2040 ▪ 70% by 2050

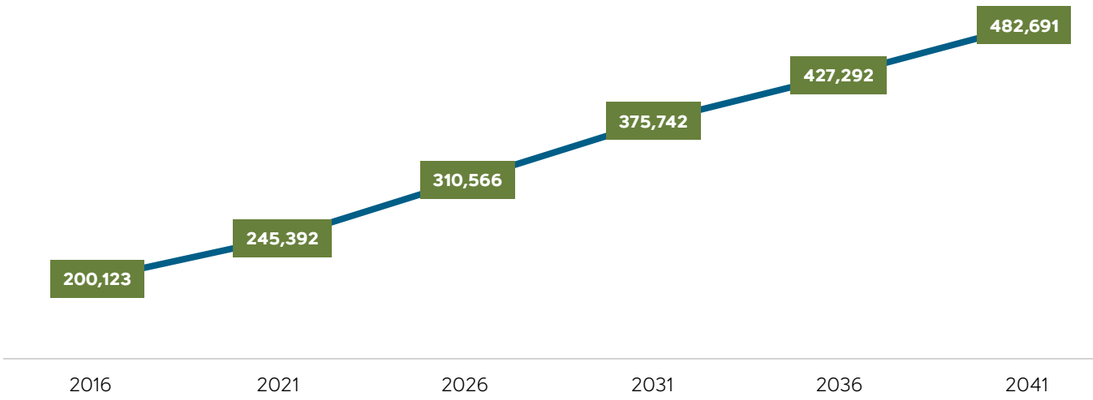
*Municipal Solid Waste (MSW) is waste and recyclable material which is generally created by residential households.

In order for Ipswich to achieve such ambitious targets, a thorough review of council's plan to reduce waste and increase recycling has been conducted. This revised Resource Recovery Strategy not only ensures we meet these targets but places Ipswich in the best possible position to meet the needs of our ever-growing City.

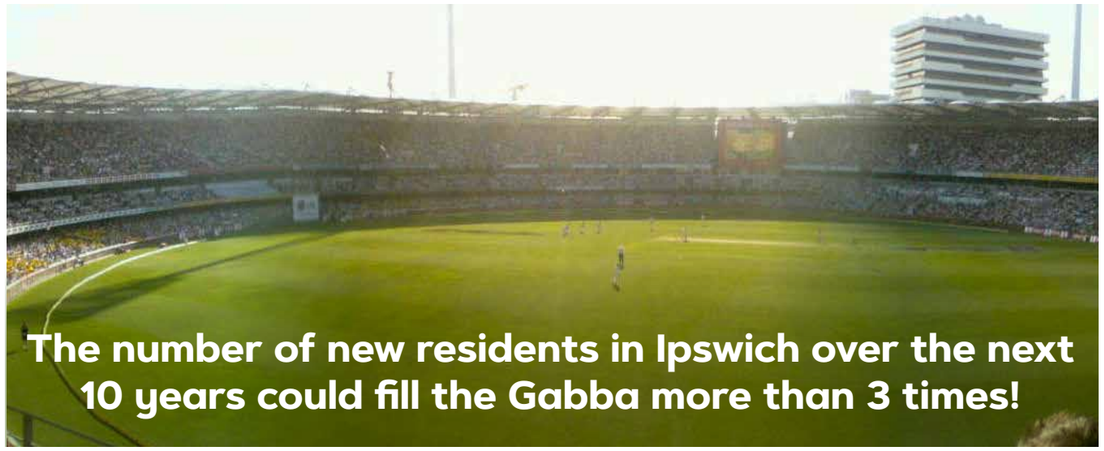
DEMANDS OF POPULATION GROWTH

Ipswich is one of the fastest growing cities in Queensland, with over 130,000 new residents expected to reside within our City's boundary within the next 10 years.

POPULATION PROJECTION



Source: Low Projection, Queensland Government population projections, 2018 edition; Australian Bureau of Statistics, Population by age and sex, regions of Australia, 2016 (Cat no. 3235.0)



With such growth, comes a compounded need to responsibly manage the City's waste and resource recovery services.

- On average, a household in Ipswich generates about 1 tonne of waste and recyclable material each year.
- By 2031 it is expected Ipswich households will generate in excess of 175,000 tonnes of waste and recyclable material.

This Resource Recovery Strategy sets out a rigorous strategy to manage the growth of the City from a waste and resource recovery perspective and ensures the community continues to enjoy an improving level of service, consistent with its expectations.

RESPONSIBLE FINANCIAL MANAGEMENT

In an effort to improve recycling and recovery performance, the Queensland Government introduced a waste levy on 1 July 2019 under the *Waste Reduction and Recycling Act 2011* (WRRA).

This levy currently covers over half of all local government regions within the State, equating to around 90 per cent of Queensland's population. Ipswich is located within an identified leviable zone.

At present, the Queensland Government's waste levy at $85 per tonne for general Municipal Solid Waste (current as at 1 July 2021) is offset by a Waste Levy Rebate paid by the State Government to the City.

This Waste Levy Rebate will remain in effect until June 2022, after which it is anticipated the City's ratepayers may need to pay part or all of the levy amount on any material they generate and is disposed of in landfill.

This strategy sets out a responsible plan to mitigate as far as practicable, the financial impacts that the removal of the Queensland Government's Waste Levy Rebates will have on the ratepayers of Ipswich.

IMPROVING COUNCIL SERVICES AND INFRASTRUCTURE

Ipswich's recycling and refuse infrastructure at Riverview and Rosewood has served the City well and continues to do so, however expansion of these facilities is needed in order to meet the needs of population growth.

The physical capacity of this infrastructure has not been expanded in more than 25 years and must now be addressed.

This Resource Recovery Strategy sets out a strategy to not only improve the functionality of the existing facilities, but also to deliver on the future infrastructure requirements necessary to satisfy communities expectations surrounding levels of service.

CARING FOR THE ENVIRONMENT

In 2020, the City calculated that approximately 100,000 tonnes of CO^2-e was generated from the City's landfilled waste, of which food and green waste produced 37,975 tonnes of CO^2-e which could have otherwise been avoided if the material was captured and composted.

This Resource Recovery Strategy sets out a strategy to reduce the generation of harmful greenhouse gases as far as practicable.

HOW WELL DOES IPSWICH MANAGE WASTE AND RESOURCE RECOVERY?

CURRENT STATISTICS FOR IPSWICH

In development of the Resource Recovery Strategy the City has undertaken extensive analysis of the waste compositions we generate.

At a macro level, Ipswich generated 71,606 tonnes of material during the 2019-2020 financial year which was disposed of via our kerbside collection service:

57,608 tonnes of general waste to landfill

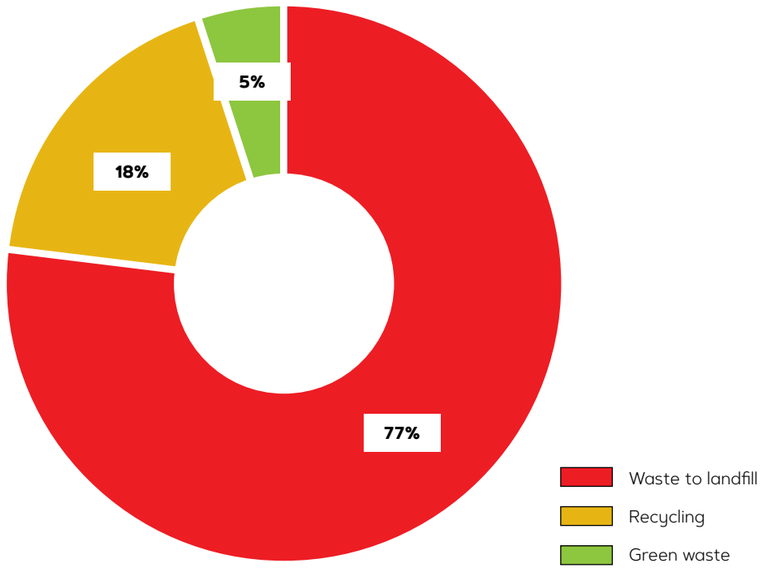
9,129 tonnes of recycling to resource recovery facilities

4,869 tonnes of green waste to composters

The City also disposed of a further 36,097 tonnes of material through the Recycling and Refuse facilities at Riverview and Rosewood during this same period.

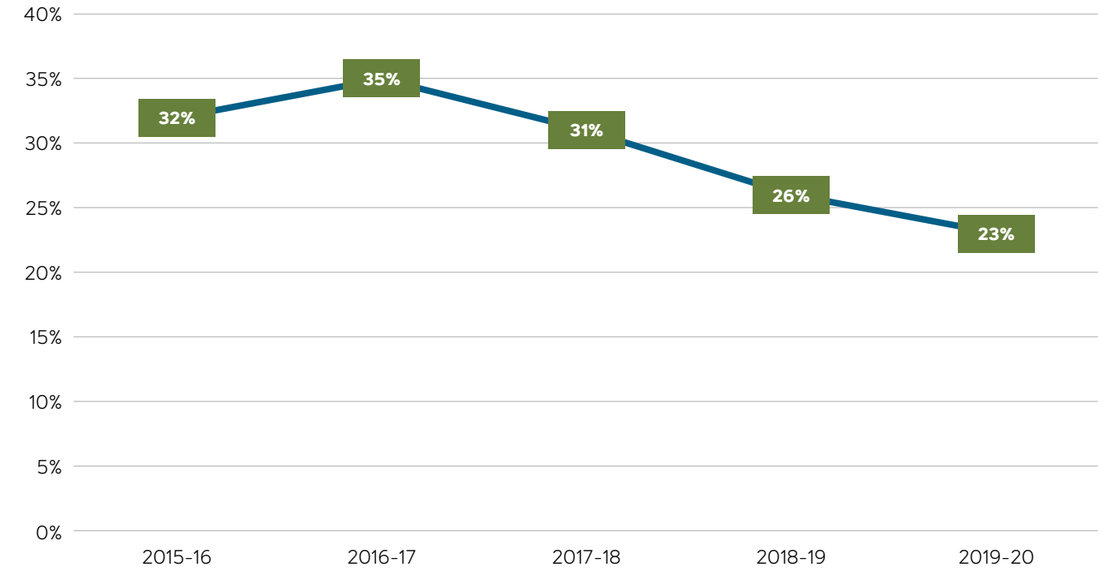
In total, Ipswich disposed of 107,703 tonnes of waste and recyclable material, of which the City was able to capture and recycle 23%

2019-2020 MUNICIPAL SOLID WASTE TO LANDFILL AND RESOURCE RECOVERY BY STREAM



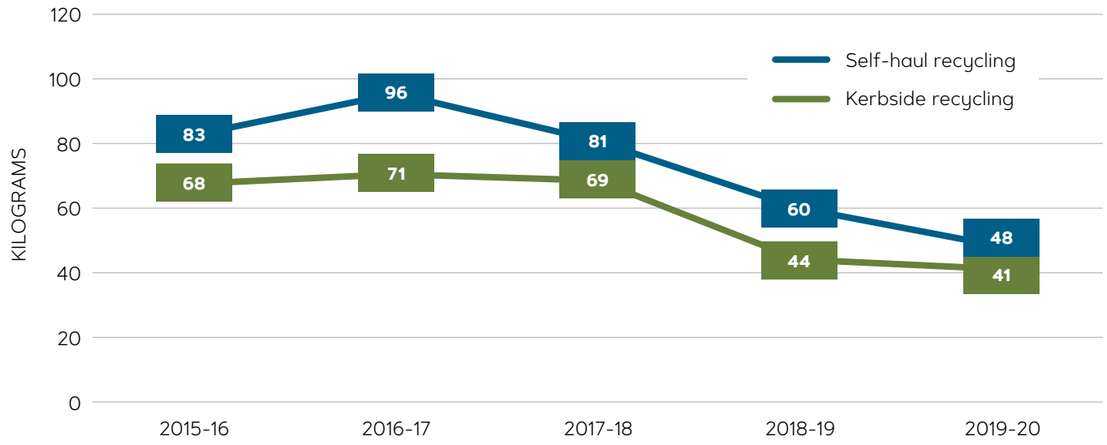
Over the past five years there has been a decrease in the overall resource recovery rate from 32 per cent in 2015-16 to 23 per cent in 2019-20. This is due to various reasons including the removal of glass from the City's kerbside recycling service.

RESOURCE RECOVERY RATE

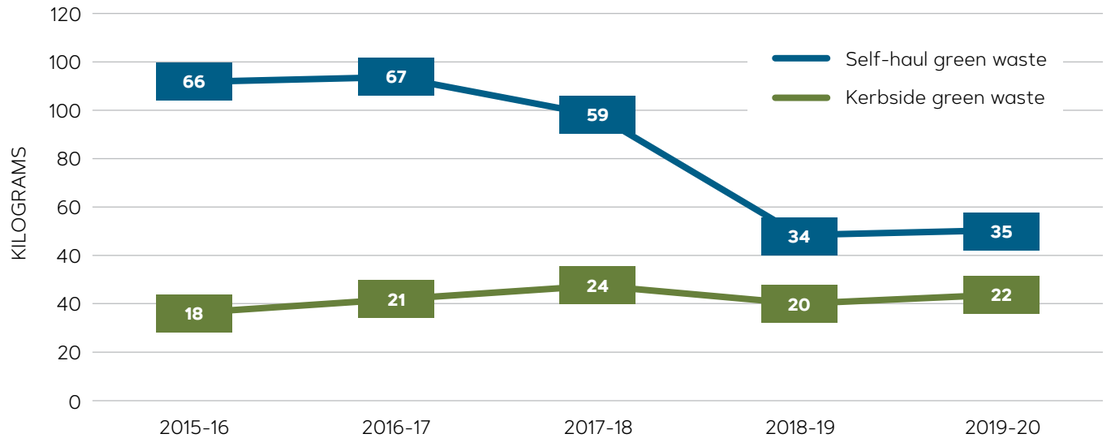


When analysing this at an individual level, we see that general recycling rates have decreased on average by more than 60kg per person and green waste recycling has decreased by more than 27kg per person.

RECYCLING KG PER CAPITA



GREEN WASTE RECYCLING KG PER CAPITA



When comparing these statistics to the results of Queensland as a whole, the State of Queensland currently recycles 45 per cent of all waste and recyclable material generated leaving 55 per cent of waste being disposed of to landfill (Queensland Government Waste Management and Resource Recovery Strategy).

HOW WE DEVELOPED THE STRATEGY

UNDERSTANDING MULTIPLE PERSPECTIVES

The development of the Resource Recovery Strategy has been guided by best practice planning and strategy and the direct voices of the Ipswich community. This includes:

Federal and State policies and legislation, such as:

- National Waste Policy
- National Food Waste Strategy
- Queensland Waste Management and Resource Recovery Strategy
- *Environmental Protection Act 1994*
- *Waste Reduction and Recycling Act 2011*

Ipswich City Council policies and strategies, such as:

- Ipswich Corporate Plan and Operational Plan
- Sustainability Strategy
- Waste and Circular Economy Transformation Policy Directive

Community input, such as:

- Reducing Our Waste community engagement on Shape Your Ipswich
- Environment Community Reference Group
- Social media polls and feedback

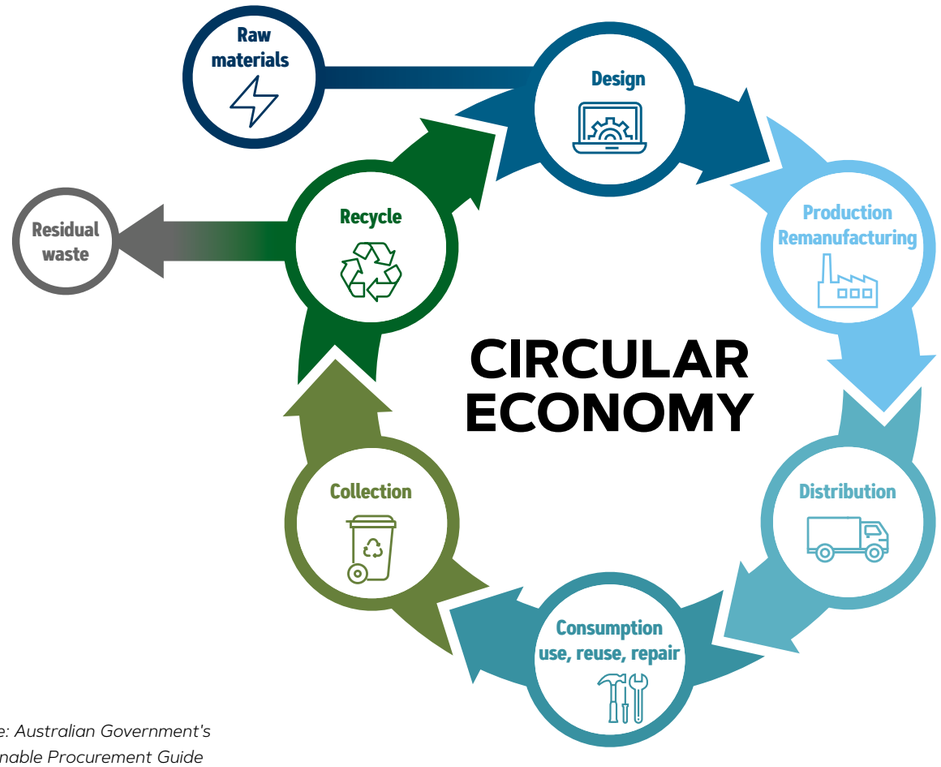
A CIRCULAR ECONOMY

At a national level the direction was clear, Australia is to change its focus to now view waste as a resource to be continually reused, recycled and reprocessed as far as possible rather than simply discarded to landfill at the end of its singular purpose.

The premise of a circular economy has been enshrined into Federal policy and therefore forms a key cornerstone in Ipswich's vision.

The essence of a circular economy is to retain the value of materials within the economy for as long as possible, continually seeking ways to recycle, redesign and reuse materials in order to minimise the unsustainable depletion of our natural environment.

Economic benefits are also shown in recent international studies from the United States Environmental Protection Agency's *2020 Recycling Economic Information Report* (reference: Epa.gov/smm/recycling-economic-information-rei-report#findings) highlighting that for each 1,000 tons of material recycled, 1.17 direct recycling jobs are created, not including the downstream reycling-based manufacturing jobs which are expondentially higher.



Source: Australian Government's Sustainable Procurement Guide

Australia's National Waste Policy identifies five guiding principles which underpin resource recovery and waste management within a circular economy. These are:

1. AVOID WASTE

- Prioritise waste avoidance, encourage efficient use, reuse and repair
- Design products so waste is minimised, they are made to last and we can more easily recover materials

2. IMPROVE RESOURCE RECOVERY

- Improve material collection systems and processes for recycling
- Improve the quality of recycled material we produce

3. INCREASE USE OF RECYCLED MATERIAL AND BUILD DEMAND AND MARKETS FOR RECYCLED PRODUCTS

4. BETTER MANAGE MATERIAL FLOWS TO BENEFIT HUMAN HEALTH, THE ENVIRONMENT AND THE ECONOMY

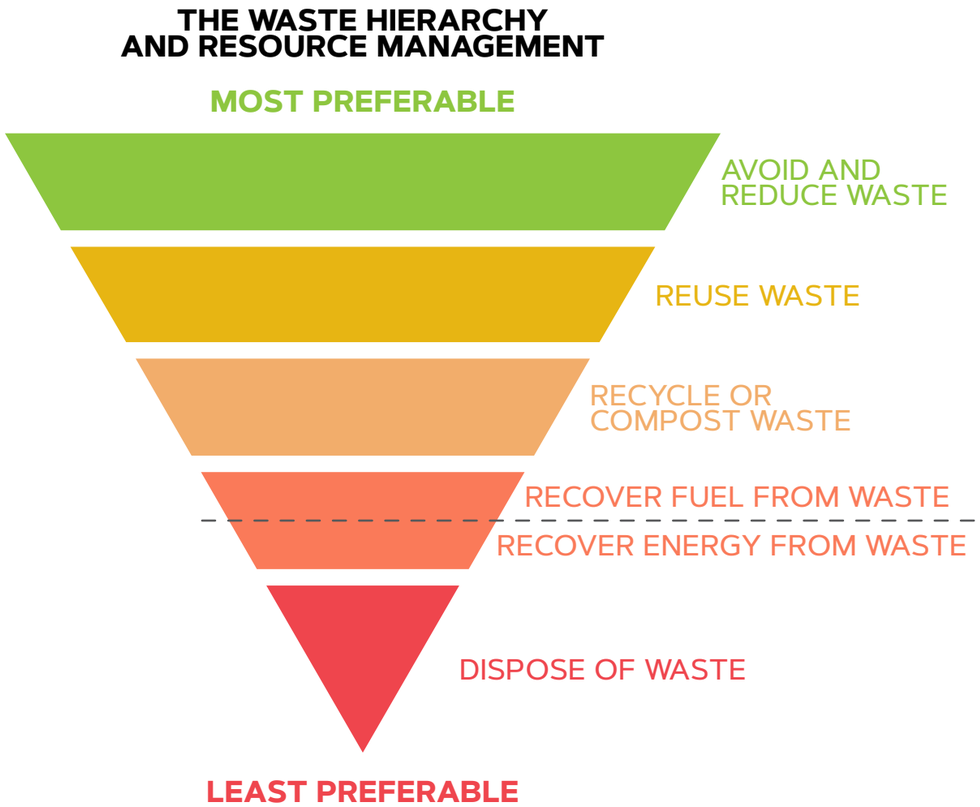
5. IMPROVE INFORMATION TO SUPPORT INNOVATION, GUIDE INVESTMENT AND ENABLE INFORMED CONSUMER DECISIONS

Similar to the National Waste Policy, the Queensland Government's Waste Management and Resource Recovery Strategy endorses a plan to transition the State's waste and resource recovery industry toward a circular economy. The strategic priorities are:

- Reducing the impact of waste on the environment and communities
- Transitioning to a circular economy for waste
- Building economic industry

The framework through which the State seeks to deliver these priorities is called the Waste and Resource Management Hierarchy.

This prioritisation tool assists determining best-practice waste management methodologies.



Source: Queensland Government Waste Management and Resource Recovery Strategy 2018

TRANSFORMING WASTE IN IPSWICH

At a local level, Ipswich City Council has taken an innovative step towards cutting waste, improving resource recovery and driving the circular economy through adoption of the Waste and Circular Economy Transformation Directive.

This directive outlines 10 guiding principles that will inform council's strategic and operational activities over the coming years and provides a platform for a concerted and coordinated effort across waste, resource recovery, recycling and the circular economy.

IPSWICH CITY COUNCIL WASTE AND CIRCULAR ECONOMY TRANSFORMATION DIRECTIVE

- Establish a waste code of practice
- Drive industry best practice
- Strong compliance culture
- Strategic and sequenced remediation
- Protect our residential amenity
- Partnering and collaboration
- Lead by example
- Leverage waste industry opportunities
- Create a better return for Ipswich
- Plan for the future

VOICES OF THE IPSWICH COMMUNITY

The engagement process that the City has undertaken in this review of the Resource Recovery Strategy goes well beyond the required benchmark, with two comprehensive phases of community input:

PHASE 1: Reducing Our Waste survey (November 2020) in which council sought community ideas and feedback on local initiatives that Ipswich could develop to meet local targets for waste reduction, recycling, and diversion of waste from landfill.

PHASE 2: Draft Resource Recovery Strategy feedback (April- May 2021) when council releases the draft strategy for community comment for a minimum period of 28 days before finalising the strategy for adoption by council.

The initial Reducing Our Waste survey was available through Shapeyouripswich.com.au. There were more than 6,200 visitors to the page, with more than 350 survey responses.

Results for this survey included:

More than 91 per cent support re-introducing glass to the yellow lid recycling bin. This was further confirmed through a Facebook poll where 98 per cent of people polled said they would support glass recycling being available in the yellow lid bins.

Almost 95 per cent supported a three-bin system in Ipswich. The main reasons people felt that way were:

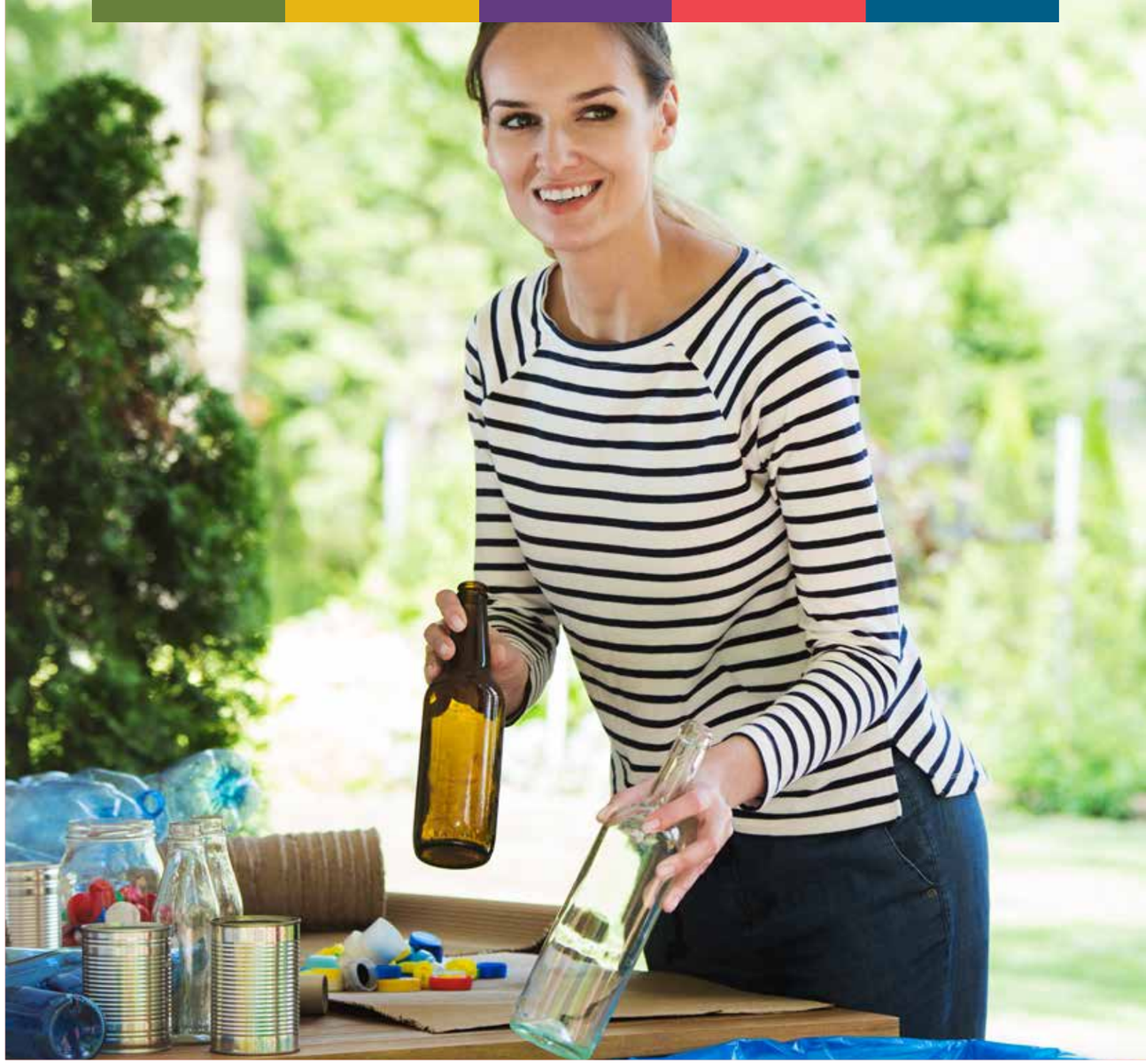
- It's better for the environment and for sustainability
- It's a simple and effective way for households to divert food waste
- It avoids sending compostable waste to landfill

Most people surveyed did not want to travel more than 10km to a Recycling and Refuse Centre.

Respondents liked to deal with their large items in different ways. Some respondents preferred to take their bulky goods to the Recycling and Refuse Centres, some like to donate their items and others preferred to wait for the large item kerbside collection service every two years. A significant percentage also wanted the flexibility to be able to book a large item collection service.

IDEAS AND OPPORTUNITIES EXPRESSED BY THE IPSWICH COMMUNITY ALSO INCLUDED:

- *'Encourage grocery stores to stop using extreme unrecyclable plastic packaging for fresh meat, fruit/vegetables and processed goods...So start at the beginning of the problem.'*
- *'Recycle bin should be weekly and general refuse fortnightly. This might encourage greater participation in recycling.'*
- *'Education – there is still a lot of confusion about what can be recycled and what can't.'*
- *'Make it easy, make it simple, make it cheap.'*
- *'Support of recovered materials recycling through purchasing of recycled content including glass, polymer enhanced bitumen, and organics.'*



VISION AND GOALS

VISION

WE WILL LEAD BY EXAMPLE AND DELIVER BEST PRACTICE WASTE AND RESOURCE RECOVERY SOLUTIONS FOR THE CITY OF IPSWICH.

From this vision, four goals have been identified:

- Reducing waste generation and landfill disposal
- Increasing materials recovery and actively promoting a circular economy
- Providing excellence in customer service, and
- Continuous development of our people, processes, infrastructure and technology.

To ensure these goals are met, strategic targets and actions have been developed to support a coordinated approach to change management of service delivery, community behaviour and traditional waste management practices.

GOAL 1:
REDUCING WASTE GENERATION AND LANDFILL DISPOSAL

In the past, landfill disposal has offered Ipswich an easy solution to waste management.

However, given the exponential growth of our City's population, the ever increasing costs associated with material disposal and the negative environmental impacts from landfill, council is committed to advocating for change.

Council will implement waste minimisation programs primarily aimed at delivering improvements to waste avoidance and collection strategies, industry collaboration, education, stewardship and innovation.

TARGET 1:
ACHIEVE A 10% WASTE REDUCTION AND 55% LANDFILL DIVERSION TARGET OF ALL MUNICIPAL SOLID WASTE (MSW) BY 2025

This Resource Recovery Strategy sets the following targets for Ipswich:

WASTE REDUCTION TARGETS (PER CAPITA)					
STREAM	**BASELINE (2020)**	**2025**	**2030**	**2040**	**2050**
MSW	373kg	10%	15%	20%	25%

LANDFILL DIVERSION TARGETS*					
STREAM	**IWS CURRENT (2020)**	**2025**	**2030**	**2040**	**2050**
MSW	23%	55%	70%	90%	95%

**Expressed as a percentage of waste managed through Ipswich Waste Services.*

GOAL 2:
INCREASING MATERIALS RECOVERY AND ACTIVELY PROMOTING A CIRCULAR ECONOMY

Ipswich City Council has made a strategic decision to manage its waste and resource recovery activities using best-practice circular economy principles.

To enable the circular economy to function effectively, a systems-thinking approach is required as there are linkages and processes across business, government and community sectors that need re-thinking, re-engineering and re-imagining.

To that end, the circular economy has the potential to provide opportunities for innovation, the uptake of new technologies and employment in new and emergent markets in Ipswich and surrounding areas.

TARGET 2:
ACHIEVE A 50% TARGET FOR RECYCLING OF ALL MUNICIPAL SOLID WASTE (MSW) BY 2025

To ensure the City's accountability to this goal, the Resource Recovery Strategy sets the following target:

RECYCLING RATES TARGETS*					
STREAM	**IWS CURRENT (2020)**	**2025**	**2030**	**2040**	**2050**
MSW	23%	50%	60%	65%	70%

**Expressed as a percentage of waste managed through Ipswich Waste Services and excludes material from which Energy is recovered.*

GOAL 3:
PROVIDING EXCELLENCE IN CUSTOMER SERVICE

Council's primary mechanism for customer service regarding waste is Ipswich Waste Services, a commercialised business unit.

Ipswich Waste Services provides the kerbside collection service to the Ipswich community, as well as some commercial and industrial, construction and demolition waste collection services to businesses in Ipswich and surrounding local government areas.

TARGET 3:
IPSWICH WASTE SERVICES WILL CONDUCT A BIENNIAL CUSTOMER SATISFACTION SURVEY AND STRIVE TO ACHIEVE A 90% CUSTOMER SATISFACTION LEVEL

To ensure the City's accountability to this goal of providing excellence in customer service to the community and all its customers, council has adopted a target that reflects the high value of Ipswich Waste Services.

GOAL 4:
CONTINUOUS DEVELOPMENT OF OUR PEOPLE, PROCESSES, INFRASTRUCTURE AND TECHNOLOGY

The Resource Recovery Strategy endeavours to employ best practice and continuous improvement through means of setting ambitious, but achievable targets and defining strategic actions in order to drive change.

In addition to the 2017 Materials Recovery Plan which provided a strong foundation upon which to build, this revised strategy will continue to recognise and adopt industry best practices, with a strong regard to developing our people, improving our systems and processes and deliver evidenced based planning to ensure availability of fit-for-purpose technology and infrastructure.

TARGET 4:
COUNCIL WILL PROVIDE FIT-FOR-PURPOSE WASTE AND RECYCLING TECHNOLOGY AND INFRASTRUCTURE TO THE COMMUNITY AND DELIVER NEW RECYCLING AND REFUSE FACILITY IN 2024-2025

To ensure the City's accountability to this goal, Council has adopted a target of delivering a new Recycling and Refuse Centre for Ipswich in 2024-2025.

HOW DO WE GET THERE?

BY RESEARCHING BEST-PRACTICE PRINCIPLES AND LISTENING TO COMMUNITY PERSPECTIVES, COUNCIL HAS DEVELOPED A RESOURCE RECOVERY STRATEGY TO MEET AMBITIOUS WASTE REDUCTION AND RECYCLING TARGETS AND THE EXPECTATIONS OF OUR COMMUNITY.

There are four pillars to deliver on the Resource Recovery Strategy vision and achieve its targets:

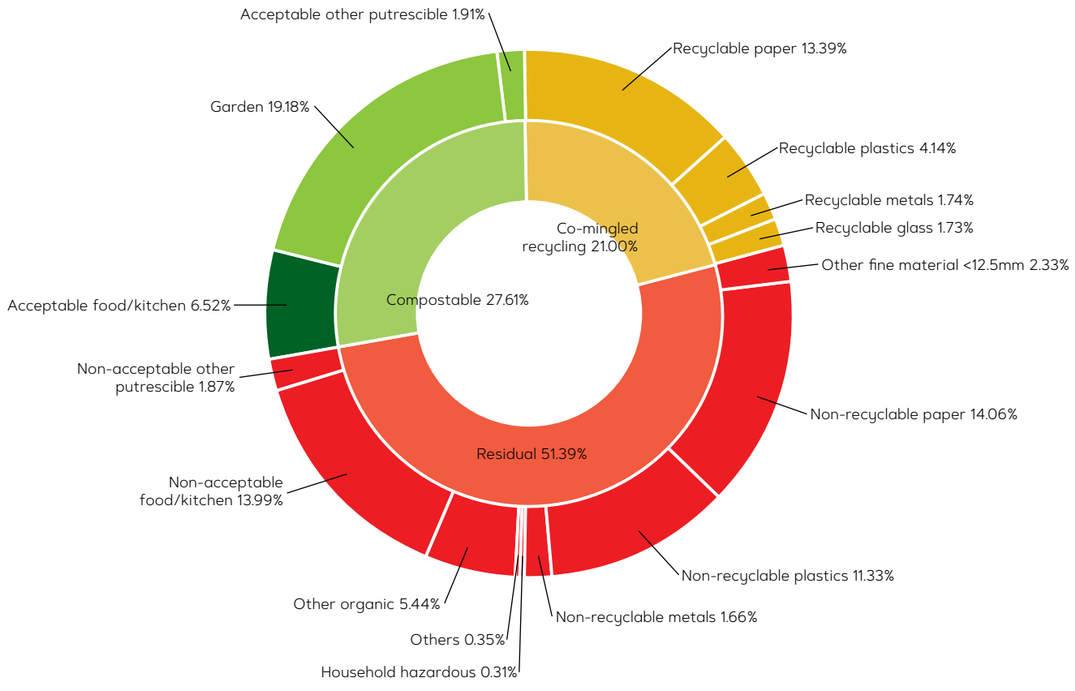
PILLAR 1	**EXPAND THE CORE COLLECTION SERVICE TO INCLUDE A FOOD ORGANICS GARDEN ORGANICS BIN FOR ALL ELIGIBLE IPSWICH RESIDENTS**
PILLAR 2	**OPTIMISE THE CITY'S CO-MINGLED RECYCLING SERVICE INCLUDING RE-INTRODUCTION OF GLASS TO THE YELLOW-LID RECYCLING BIN**
PILLAR 3	**PROVIDE A FLEXIBLE 'ON DEMAND' LARGE ITEM KERBSIDE COLLECTION SERVICE WHERE VALUABLE RESOURCES ARE RECOVERED**
PILLAR 4	**HAVE FIT-FOR-PURPOSE WASTE AND RESOURCE RECOVERY INFRASTRUCTURE THAT MEETS THE NEEDS OF A GROWING CITY**

PILLAR 1: FOOD ORGANICS GARDEN ORGANICS (FOGO)

At the end of 2020 council undertook extensive audits that included determining the composition profile of the community's waste streams.

These audits confirmed that last financial year there were in excess of **15,500 TONNES** of compostable organics which had been collected through council's kerbside general waste stream (red lid bins). These organics could have been composted but were lost to landfill.

The current composition profile of Ipswich's domestic kerbside general waste stream (red lid bins) is detailed below:



The capture and diversion of Food Organics and Garden Organics (FOGO) offers the City a major resource recovery opportunity. It is one of the easiest and most cost effective solutions when working towards:

- Achieving landfill diversion and recycling rate targets
- Reducing costs of disposal
- Mitigating the impact of the Waste Levy Rebate removal to ratepayers
- Providing a significant positive environmental outcome

A FOGO service is straightforward in terms of service delivery which can deliver considerable benefits to the City.

AS SUCH, IN 2021 COUNCIL WILL RE-BRAND ITS GREEN WASTE SERVICE TO BE CALLED A FOOD ORGANICS AND GARDEN ORGANICS OR FOGO SERVICE. COUNCIL WILL ACTIVELY PROMOTE THE EXISTING OPT-IN FOGO SERVICE WHILE PREPARING TO INTRODUCE A CITY-WIDE FOGO SYSTEM AS A CORE SERVICE IN 2022-2023.

Ipswich City Council is already a leader in the field of FOGO collection services.

IPSWICH WAS THE FIRST AND IS CURRENTLY THE ONLY COUNCIL IN QUEENSLAND TO OFFER ITS RESIDENTS THE ABILITY TO PUT FOOD ORGANICS AND GARDEN ORGANICS INTO THEIR OPT-IN GREEN WASTE SERVICE.

There are more than 70 councils across Australia which provide FOGO as a service to their residents. From their learnings, it has been shown that the collection frequency of the three waste streams (i.e. red, yellow and green lid bins) has an important role in the success of a FOGO service.

As such, Ipswich City Council will revise the City's collection cycle upon the rollout of the three core bin system in 2022-2023. The collection cycle will be:

- Weekly FOGO collection service (green lid bin)
- Alternate fortnightly recycling collection service (yellow lid bin)
- Alternate fortnightly general waste collection service (red lid bin)

By adopting this frequency model for collection services, studies by organisations such as Swinburne University have shown that Ipswich will maximise the potential benefits of its FOGO service.

It should be noted that under the new core three bin system the size of council's general waste service (red lid bin), being a 240L mobile garbage bin (MGB), will remain unchanged. This is unlike some other councils in Australia which have elected to reduce the sizing of this general waste service when rolling out FOGO as a core service.

PILLAR 1 ACTIONS

Rebrand the opt-in green waste service as a FOGO service 2021-2022.

Introduce FOGO as a city-wide core service in 2022-2023.

AS PART OF THE ROLLOUT OF THE THREE CORE BIN SYSTEM, REVISE THE CITY'S COLLECTION CYCLE TO:

- **WEEKLY FOGO COLLECTION SERVICE (GREEN LID BIN)**
- **ALTERNATE FORTNIGHTLY RECYCLING COLLECTION SERVICE (YELLOW LID BIN) AND GENERAL WASTE COLLECTION (RED LID BIN)**

PILLAR 2: OPTIMISE THE CO-MINGLED RECYCLING BIN

The message from the Ipswich community was clear. The community engagement on Shape Your Ipswich, and the social media polls, returned a resounding result about recycling glass.

91% SUPPORT RE-INTRODUCING GLASS TO THE YELLOW LID RECYCLING BIN

Council's glass recycling program started in 2018 in response to changes to the city's recycling service. The four collection points have captured and recycled about 300 tonnes of glass.

Following the waste audits in late 2020, it has been identified that this volume of glass material represents only 9% of all glass collected by the City. It was further confirmed that 50% of glass is being lost to landfill by being thrown into the general waste bin (red lid) with 41% continuing to be placed in the co-mingled recycling bin (yellow lid).

In response to these audit results, and in line with the overwhelming wishes of the community, Ipswich City Council will work with the city's materials recovery facility provider to support the reintroduction of glass to the yellow lid bin.

In an effort to further optimise council's co-mingled recycling service it has become apparent that for some segments of our community, (such as larger families) there is a need to increase the size of their yellow lid bin. As such, council is going to make available for relevant residents a larger 360 litre yellow lid bin, as opposed to the standard 240 litre, to assist with the demands for this service.

PILLAR 2 ACTIONS

INCREASE RECYCLING AND REDUCE CONTAMINATION THROUGH ENHANCED EDUCATION AND COMMUNITY ENGAGEMENT AND:

- **WORKING WITH IPSWICH'S MATERIALS RECOVERY FACILITY PROVIDER TO RE-INTRODUCE GLASS TO THE YELLOW LID BIN IN 2021-2022.**
- **PROVIDE LARGER 360 LITRE YELLOW LID BINS FOR HOUSEHOLDS WITH GREATER RECYCLING NEEDS.**

PILLAR 3: LARGE ITEM KERBSIDE COLLECTION

The large item kerbside collection service is for acceptable large household items which do not fit in the kerbside bins but are not greater than two cubic metres in diameter. This equates roughly to slightly less material than could otherwise fit in a regular 6 x 4 box trailer.

LARGE ITEM KERBSIDE COLLECTION

<240L

240L – 2m^3

>3m

The large item kerbside collection service has been provided city-wide every two years with all materials collected being taken directly to landfill. In 2019, about 35 per cent of Ipswich households used this service.

IN 2019, ABOUT 2,600 TONNES OF MATERIAL WAS SENT TO LANDFILL THROUGH THE LARGE ITEM KERBSIDE COLLECTION

In line with the City's goals and targets for landfill diversion and recycling, the large item kerbside collection will evolve to become a flexible on-demand service. This new service will allow residents to book in a collection instead of having to wait for up to two years as per the previous program.

The new on-demand large item kerbside collection service will also be designed to recover as much material as possible. A fundamental component will be the sorting and recovery of valuable items, to enable as much material to be diverted from landfill as possible.

This new service will have a higher cost to operate, due to the logistics of offering flexibility and materials recovery. Council will subsidise the service but also will charge a low cost fee.

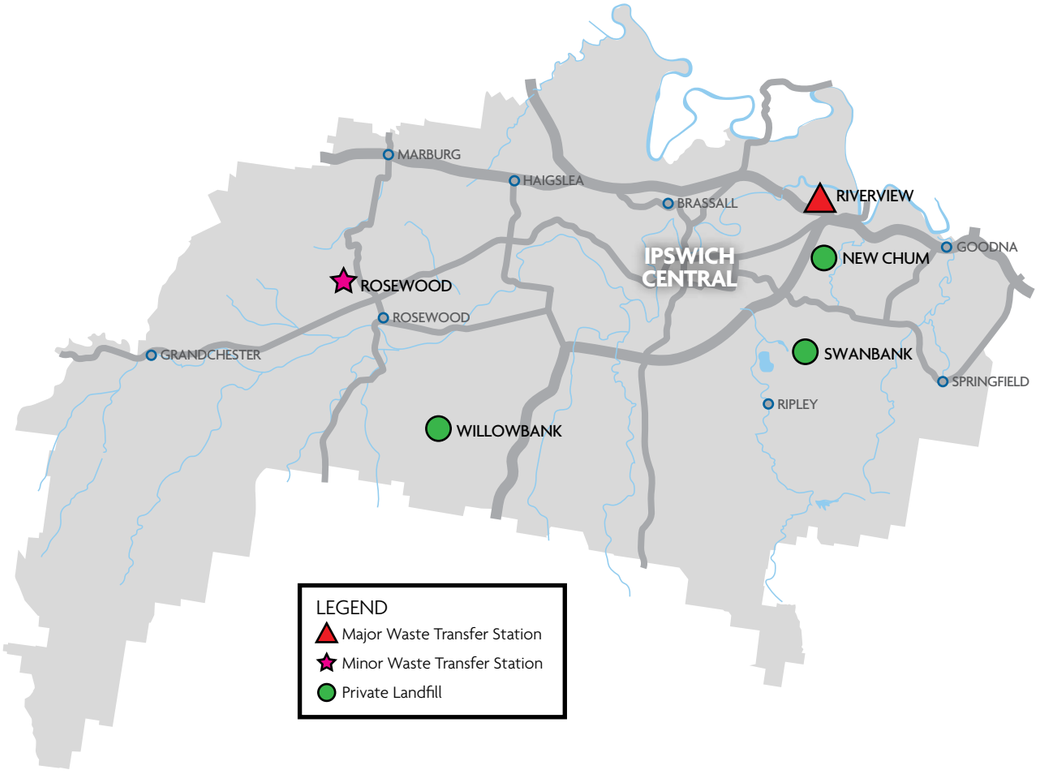
Research has shown that by providing an on-demand service, neighbourhoods remain cleaner during kerbside collection with illegal dumping of household items significantly reduced. An on-demand large item kerbside collection will commence during 2021-2022.

PILLAR 3 ACTIONS	
	PROVIDE AN ON-DEMAND LARGE ITEM KERBSIDE COLLECTION SERVICE COMMENCING IN 2021-2022
	SORT, RECOVER AND RECYCLE RELEVANT COLLECTED LARGE ITEMS TO DIVERT MATERIAL FROM LANDFILL

PILLAR 4: COUNCIL RECYCLING AND REFUSE INFRASTRUCTURE

A mixture of privately owned landfills and council-owned and operated waste transfer facilities are currently used to manage the City's general waste. Ipswich City Council does not own or operate any open landfills.

Council's waste transfer facilities, the Riverview and Rosewood recycling and refuse centres, allow residents and businesses to 'self haul' their waste and recycling material. Council then aggregates the material and bulk transports the waste material to private landfills, with recycling material going to third party processors.



Council's Riverview Recycling and Refuse Centre is now more than 30 years old. The Rosewood Recycling and Refuse Centre is more than 25 years old. The Riverview centre, being Ipswich's primary facility, is experiencing significant capacity constraints as it has not had a capacity increase since it was established.

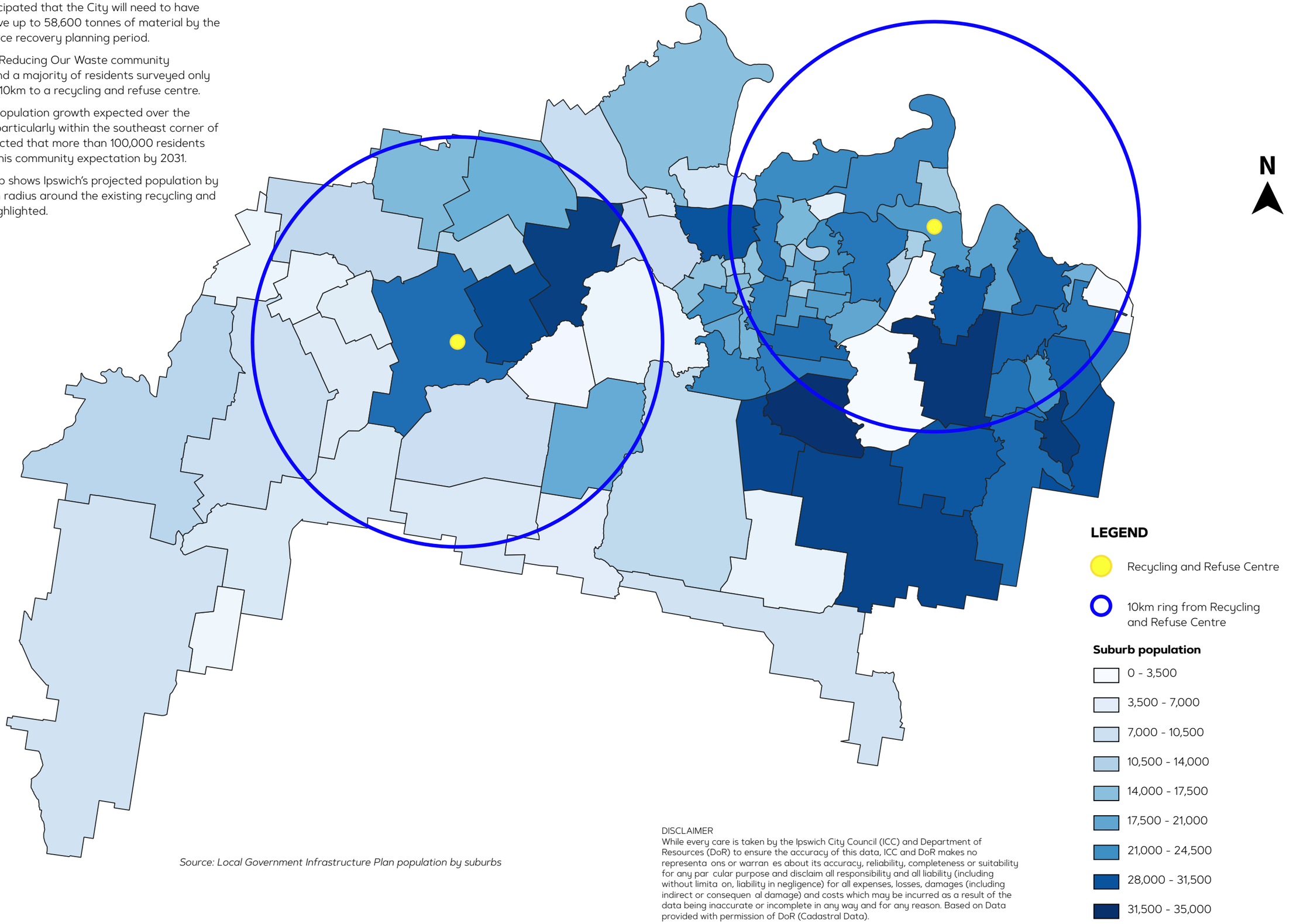
DURING 2018 THE RIVERVIEW CENTRE HAD ABOUT 142,000 VISITATIONS. BY 2020 THERE WERE MORE THAN 170,000 VISITATIONS.

With the estimated population expected to exceed 375,000 by 2031, it is anticipated that the City will need to have capacity to receive up to 58,600 tonnes of material by the end of the resource recovery planning period.

Results from the Reducing Our Waste community engagement found a majority of residents surveyed only wanted to travel 10km to a recycling and refuse centre.

With significant population growth expected over the coming decade, particularly within the southeast corner of Ipswich, it is expected that more than 100,000 residents would not meet this community expectation by 2031.

The following map shows Ipswich's projected population by 2031, with a 10km radius around the existing recycling and refuse centres highlighted.



Source: Local Government Infrastructure Plan population by suburbs

DISCLAIMER
While every care is taken by the Ipswich City Council (ICC) and Department of Resources (DoR) to ensure the accuracy of this data, ICC and DoR makes no representa ons or warran es about its accuracy, reliability, completeness or suitability for any par cular purpose and disclaim all responsibility and all liability (including without limita on, liability in negligence) for all expenses, losses, damages (including indirect or consequen al damage) and costs which may be incurred as a result of the data being inaccurate or incomplete in any way and for any reason. Based on Data provided with permission of DoR (Cadastral Data).

Given the need for additional recycling and refuse processing capacity combined with the community's expectation for geographical distancing of such facilities, council will commence planning for a new recycling and refuse centre with a view to have the new facility completed by 2024-2025.

A Recycle Mart (or tip shop) requires adequate volumes of reusable items for resale and appropriate facilities at which material can be sorted and reclaimed. The new recycling and refuse centre will be designed with an increased capability including the recovery of reusable items. The feasibility of a Recycle Mart will be investigated in alignment with the delivery of the new recycling and refuse centre.

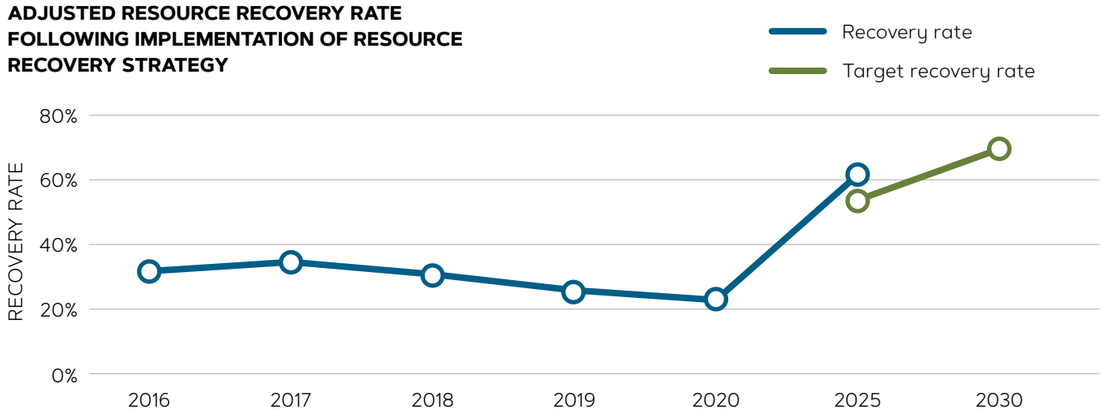
In consideration of a resident subsidy scheme (e.g. a tip voucher scheme) council would need to ensure that recycling and refuse centres have the capacity to handle the potential increase in visits and waste volumes from any such program. Due to current infrastructure constraints the refuse and recycling centres would not be able to handle significant additional waste disposal. It is recommended that council reviews a resident subsidy scheme and current charging for existing and new recycling and refuse centres.

PILLAR 4 ACTIONS	
	IMPROVE THE CURRENT RIVERVIEW AND ROSEWOOD CENTRES TO BETTER MEET COMMUNITY NEEDS
	PLAN A NEW RECYCLING AND REFUSE CENTRE WITH A VIEW TO HAVE THE FACILITY COMPLETED BY 2024-2025
	INVESTIGATE THE FEASIBILITY OF A RECYCLE MART AND RESIDENT SUBSIDY SCHEMES (SUCH AS TIP VOUCHERS) IN ALIGNMENT WITH THE NEW RECYCLING AND REFUSE CENTRE

SUMMARY

Through implementation of this four pillar strategy detailed through this Resource Recovery Strategy the City will realise its vision and achieve its targets.

ADJUSTED RESOURCE RECOVERY RATE FOLLOWING IMPLEMENTATION OF RESOURCE RECOVERY STRATEGY

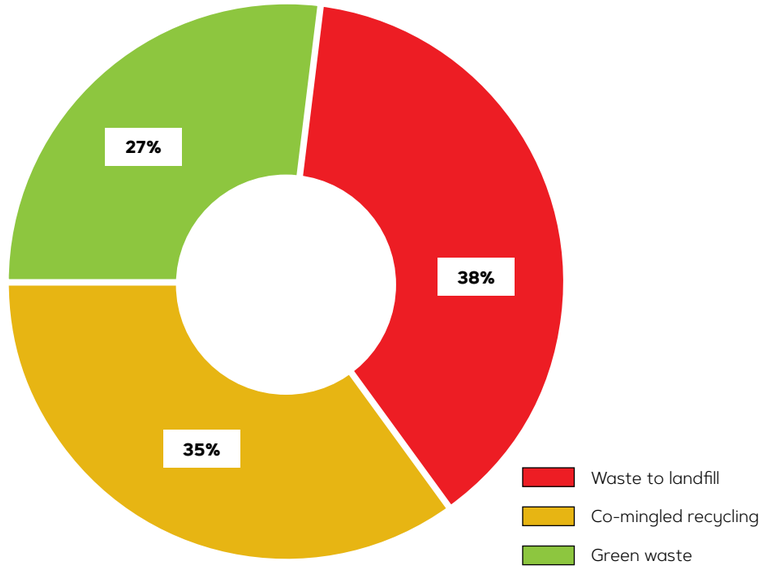


It is anticipated that with:

- the increased capture of compostable material through the new FOGO collection service
- the increased capture of glass through re-introducing glass into the yellow lid
- the recovery and recycling of large items from the kerbside collection, and
- the increased recovery of self-haul material following the upgrade of the City's recycling and refuse infrastructure

Ipswich will be on target to recycle and divert from landfill more than **60% OF ALL MSW** it generates.

MUNICIPAL SOLID WASTE TONNAGE BY STREAM FOLLOWING IMPLEMENTATION OF RESOURCE RECOVERY STRATEGY



WHAT DOES THIS MEAN FOR ME?

Council's Resource Recovery Strategy has set a strategic plan on how to reduce waste and recover more resources.

Each of the four pillars upon which this strategy is based will help Ipswich to reduce waste and increase the recovery of valuable resources to divert waste from landfill.

By taking part in the City's waste and recycling services and following this Resource Recovery Strategy, each resident contributes to the current and future liveability of our city.

- **WASTE WILL BE TREATED AS A RESOURCE:** Under the new circular economy, landfill will be seen as a last resort. Businesses, organisations and individuals will all be challenged to find ways to divert as much as possible from landfill.
- **HIGH LEVEL OF CUSTOMER SERVICE:** You will continue to receive an exemplary level of customer service from council's Ipswich Waste Services, which is responsible for residential kerbside collection and some commercial services.
- **IMPROVED GLASS RECYCLING:** You will be able to recycle glass through your yellow lid recycling bin in 2021-22 assisting the City to capture the 900 tonnes of glass lost to landfill during 2020.
- **DIVERTING FOOD AND GARDEN ORGANIC WASTE:** council's opt-in green waste service will evolve into FOGO (food organics and garden organics). You can recycle your food scraps with your garden waste in the one bin. Contact council today to see how you can participate.
- **LARGE ITEM KERBSIDE COLLECTION:** The current two-year cycle for large item collection will become an on-demand bookable service. There will be a low fee associated with this service, but unlike the previous program, all materials will be sorted and valuable items diverted from landfill.
- **UPGRADED WASTE INFRASTRUCTURE:** Within five years council aims to have a range of recycling and refuse facilities that you can take materials to, and maximise the opportunity for recycling and material recovery.

BY WORKING TOGETHER, IPSWICH CAN RECYCLE AND DIVERT FROM LANDFILL MORE THAN 60% ALL MUNICIPAL SOLID WASTE (MSW) WE GENERATE

City of Ipswich

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