



Zero Waste Strategy

Liverpool City Region



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Why have a Zero Waste Strategy?

1

To guide positive change for us, our community and our waste, and help Liverpool City Region meet its ambitious target to become net zero carbon by 2040 or sooner, at least a decade earlier than the national target¹.

How we manage our waste (or rubbish) plays an important role in climate change and the carbon emissions we generate. Carbon emissions lead to a warmer atmosphere and a faster rate of climate change. Carbon is generated from the extraction, processing and transport of the raw materials which become the things we buy, use and ultimately dispose of as rubbish.

¹The Liverpool City Region Combined Authority was the first in the country to declare a Climate Emergency in 2019

When we throw items away, the collecting and treating of our rubbish also generates carbon emissions. We can lower our carbon emissions and contribute to climate action if we reduce our demand for new resources through reducing the amount of stuff we buy and increasing material reuse and recycling, which also reduces the amount of rubbish we need to manage.

Our Zero Waste Strategy sits firmly in the context of climate action to deliver this goal and provides opportunities for significant positive change in our region. It sets out how we can become a society that embraces a more sustainable way of living by prioritising reuse, repair and recycling over the constant production and consumption of new goods.

This will mean that in the future our rubbish bins are much less needed, providing benefits to our community and the economy and resources in our region. This will also reduce our carbon emissions.

For our Zero Waste Strategy to be most effective it relies on the support of **everyone**, including Government, Councils, businesses, community organisations, schools and residents. Through working together, we can achieve positive change for our People, Planet and Economy.

Zero Waste Strategy



So, what is Zero Waste?

Zero waste is preventing as much rubbish as possible.

We know that some waste is unavoidable no matter how hard we all try to prevent it by reusing and repairing things, so we will always be collecting some rubbish for recycling or disposal.

Our aim is to make it easier to prevent waste, and repair and reuse items, then recycle, so our bins have much less in them in future.

This is known as the 'circular economy' approach to managing our valuable resources and it aims to keep our resources (items) in circulation for as long as possible so that their value is retained.

Our Zero Waste Strategy is being prepared by a Partnership of the Councils in the Liverpool City Region and Merseyside Recycling & Waste Authority (MRWA).

Together the Liverpool City Region Waste & Resources Partnership (the Partnership) provides waste and recycling services for the 1.5 million people, living here, approximately 675,000 households.



	Date of climate declaration	Net Zero Target
Liverpool City	24th May 2019	2030
Sefton	18th July 2019	2030
Halton	16th October 2019	2040
Knowsley	29th January 2020	2040
St. Helens	10th July 2019	2040
Wirral	15th July 2019	2041

So, who is The Partnership?

Together, the Liverpool City Region Waste & Resources Partnership (the Partnership) comprises:

- Halton Borough Council
- Knowsley Borough Council
- Liverpool City Council
- Sefton Borough Council
- St Helens Council
- Wirral Council
- Merseyside Recycling and Waste Authority (MRWA)

Our Zero Waste Strategy supports the delivery of net zero carbon targets by 2040, whilst maximising opportunities to make our city region “greener” by helping our residents and businesses to prevent waste, wherever possible – everyone needs to play their part.



What does our Strategy include?

Our Strategy is built around the three themes of **People, Planet and Economy** and seven strategic outcomes set out in the *Liverpool City Region Zero Waste 2040 Strategic Framework* and section 2 of this document.

It is designed to lead you through the process of how the Partnership will be working to help deliver zero waste.

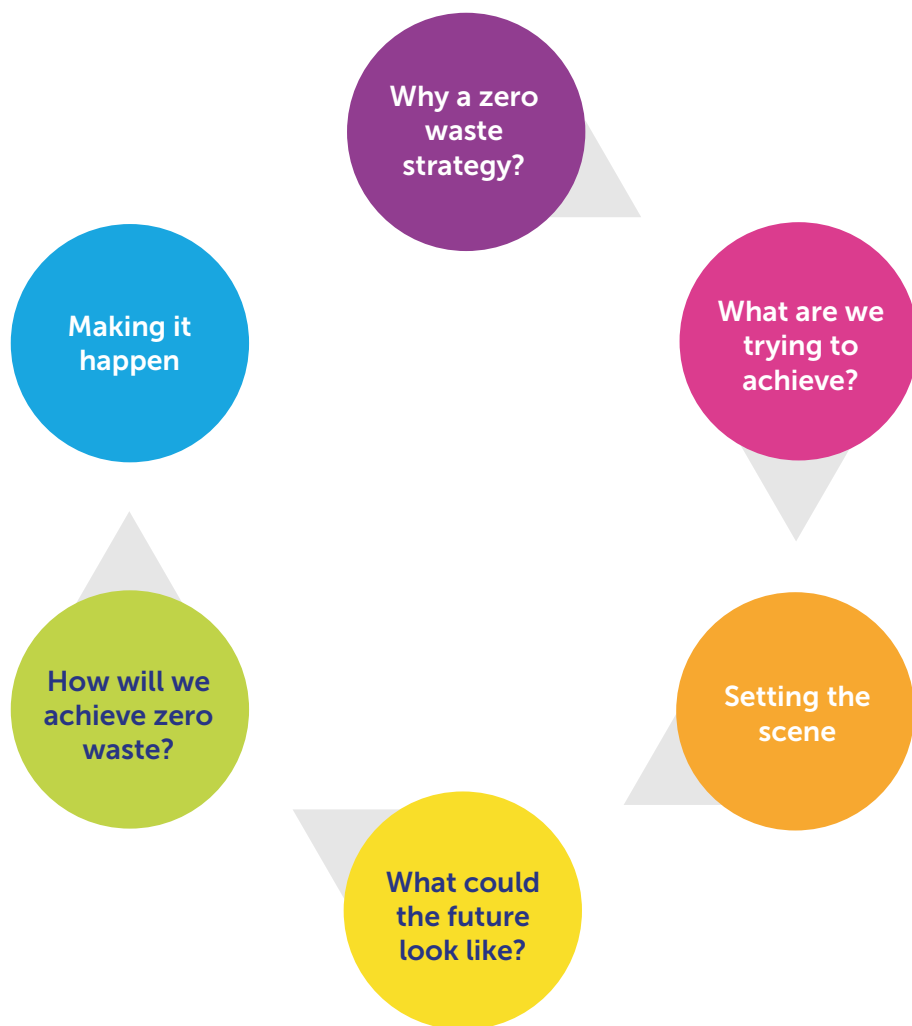


So, what is our waste?

Our waste or rubbish is items we “don’t need” and “throw away”.

Our strategy is relevant for:

- **Household & other waste collected by the councils**, such as waste and recycling you produce at home, litter bins, street sweepings and some business waste.
- **Other waste (not in direct control of the Partnership)**, such as industrial, agricultural and commercial waste that the councils can use collective powers to influence.



Zero Waste Strategy Structure

1. **Why have a Zero Waste Strategy?** Answering the basic questions surrounding our Strategy, who, where, what, when, why, and how.
2. **What are we trying to achieve?** The vision, themes, strategic outcomes and objectives of our Strategy.
3. **Setting the scene** – The context of our Strategy, the laws and strategies affecting waste, best practice for waste and what we do with your waste.
4. **What could the future look like?** Looking at the Liverpool City Region in the future, projections of future waste services, the impact of key legislative changes and where our Strategy will take Liverpool City Region.
5. **How will we achieve zero waste?** Examines working together, changing attitudes, reducing rubbish, repair and reuse, recycling and influencing our carbon footprint.
6. **Making it happen** – Our commitments to deliver our Strategy.

Where does our Strategy fit?

Our Zero Waste Strategy for the Liverpool City Region:

- Aligns with the existing overarching *Liverpool City Region Zero Waste 2040 Strategic Framework* and adopts the same three themes (People, Planet and Economy) and the same seven strategic outcomes.
- Replaces, updates and encompasses, where appropriate, the objectives from the *Resources Merseyside 2011 – 2041 Strategy*.
- Takes into consideration commitment for the Environment and Climate Emergency Strategies of the Partnership and the Liverpool City Region Combined Authority to be net zero by 2035.
- Provides overarching direction for and takes into consideration the *individual waste strategies* of the Partnership.



Waste strategies of the Partnership Councils and MRWA sit beneath our Zero Waste Strategy and align to our Vision, Mission Statement and Objectives. Where appropriate, existing Partnership waste strategies have fed into the development of our Zero Waste Strategy.

A Strategic Environmental Assessment (SEA) screening exercise was undertaken and determined² that our Zero Waste Strategy did not require a full SEA.

The Partnership will commit to a review of the Zero Waste Strategy in five-yearly intervals.

² Through consultation with the designated Consultation Bodies in England; Natural England, Historic England and the Environment Agency as the Zero Waste Strategy will not cause any significant negative environmental effects as it sits within existing policy and Strategy documents, is non site specific and is designed to make waste management more sustainable.

Waste management strategies



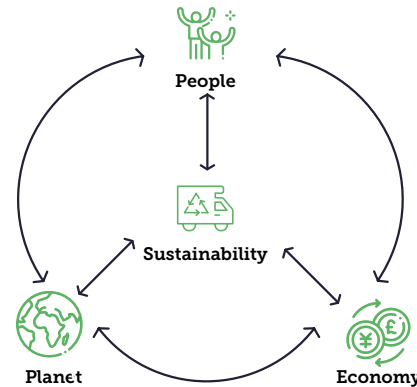
What are we trying to achieve?

The Vision for our Zero Waste Strategy is:

A Liverpool City Region without Waste

We will work together to protect our environment by keeping materials in use for as long as possible, preventing avoidable waste, and encouraging reuse, repair, recycling and composting. We will educate and engage and deliver waste management practices that provide value for money for our communities.

Through working together to reduce waste, we aim to achieve positive change for our People, Planet and Economy. A shift towards a more circular economy by everyone will play a significant part in meeting net zero carbon targets and responding to the climate emergency, alongside bringing crucial environmental, economic, and social benefits. This won't be easy; we will all need to make big changes.



2

People

The wellbeing of LCR residents is central to our commitment of meeting net zero carbon and zero waste goals. We want a City Region where our use of resources creates social value and thriving communities.

Planet

Using resources wisely and reducing waste is critical in achieving net zero and sustaining our planet. We want to transition to a zero waste LCR, where a healthy and diverse environment enriches lives and strengthens the economy.

Economy

Transitioning to a circular LCR will create a wealth of green jobs and open up new opportunities for sustainable businesses. We want enterprises to prosper through rethinking the role of resources and designing out waste.

Strategic outcomes

Supporting our Strategy's vision and expanding the overall themes and strategic outcomes of the Zero Waste Strategy are thirteen objectives with the priority of achieving zero avoidable waste in the Liverpool City Region by 2040.

Developed to encompass and build on the objectives of our earlier waste strategy, Resources Merseyside, where appropriate, and through a workshop to achieve Partner Council consensus, the objectives provide direction and focus for delivery of the Strategy.

Our Zero Waste Strategy adopts and builds on the same interlinking themes of People, Planet and Economy and the strategic outcomes of the *Zero Waste 2040 Strategic Framework*



People

1. Governance
2. Social value



Planet

1. Climate and carbon
2. Resource efficiency



Economy

1. Cost efficiency
2. Green jobs
3. Circular economy

How?

To achieve Zero Waste, our Strategy is underpinned by the following 13 objectives:

1. To deliver the Strategy through **co-ordinated action** and **a unified voice**
2. Promote **behavioural change** in residents and business via **education** and **raising awareness** of zero waste and circular economy
3. Developing **reuse capacity** and maximising the **social (community) value of reuse**
4. Reduce **food waste**
5. Reduce the **carbon impacts** of resource use and waste management
6. Provide **waste infrastructure** that allows future flexibility
7. Provide a **whole system approach** to waste management and waste reduction
8. Maximise **waste prevention**
9. Increase **higher quality recycling** to achieve national targets (65% by 2035)
10. Promote the use of **renewable energy**
11. Provide **appropriate enforcement** to protect the environment
12. Maximise opportunities for **local green jobs**
13. Optimise **sustainable economic** activity

How the themes (People, Planet, Economy), the Strategic Outcomes and Strategy Objectives relate to each other, is shown here.

Zero Waste Objectives Summary	Themes & Strategic Outcomes						
	PEOPLE		PLANET		ECONOMY		
	Governance	Social Value	Climate & Carbon	Resource Efficiency	Cost Efficiency	Green Jobs	Circular Economy
1. Co-ordinated action and a unified voice							
2. Education and raising awareness – zero waste and circular economy							
3. Developing reuse capacity and maximising social value							
4. Reducing food waste							
5. Reducing carbon impacts of waste management							
6. Waste infrastructure with future flexibility							
7. Whole system approach to waste management & reduction							
8. Maximising waste prevention							
9. Increase higher quality recycling							
10. Promoting use of renewable energy							
11. Appropriate enforcement							
12. Maximise local green jobs opportunities							
13. Optimise sustainable economic activity							

Matrix illustrating the links between our themes, strategic outcomes and objectives.

Setting the scene

3

What laws and policies affect waste?

Managing waste in line with government policies is fundamental to our zero waste goal and has a key role in responding to the Climate Emergency...

Your Council and MRWA provides waste services that meet or exceed the national requirements by law. There are lots of changes in legislation and waste policy coming in the next decade that will affect what your recycling and rubbish looks like and how it is collected. These aim for positive change for our People, Planet and Economy, and will determine how your Council delivers waste services in your area.

Changes to packaging regulations mean that businesses which make or use packaging will have greater responsibility for the costs of dealing with it, which should lead to less

packaging overall and more of it being able to be recycled. Your Council will need to collect the waste in an “efficient and effective” way as part of these regulations.

The ‘Simpler Recycling’ rules will increase the range of materials we are able to recycle at home and at work, including those materials already collected, plus food waste, more plastics and cartons.

So, what does this mean to me?

This means we will establish and/or promote reuse and repair and refill infrastructure and services, home composting and leasing / borrowing services.

There could be a variety of changes to how your rubbish is collected and treated and improvements to your recycling.

We will provide regular communication and engagement about any possible changes affecting you so you understand why there are changes, what is happening and what is required.

So, what are the key waste policies?

2025 – Extended Producer Responsibility for packaging

Producers to design more sustainable and recyclable products to increase the amount of household packaging waste recycled

2027 – Deposit Return Scheme

Single use drinks containers to have a returnable deposit on them, redeemed at stores or through “reverse vending machines”, designed to reduce littering and increase recycling

2028 – UK Emissions Trading Scheme

Increased cost for carbon emitted from incinerators & Energy from Waste facilities burning rubbish

2035 – target: max. 10% municipal waste to landfill

2035 – target: 65% municipal waste recycled

‘Simpler Recycling’ in waste collections:

31 March 2025 Businesses / non household municipal premises – to have recycling collections for cartons, plastics, glass, paper, card, cans, food waste

31 March 2026 Households – to have recycling collections for cartons, plastics, glass, paper, card, cans, garden and weekly food waste

31 March 2027 Businesses & Households - to collect plastic film for recycling

Net Zero target dates

2030 – Liverpool City & Sefton

2035 – Liverpool City Region Combined Authority

2040 – Halton, Knowsley & St Helens

2041 – Wirral

2050 – United Kingdom

Liverpool City Region Zero Waste Strategy



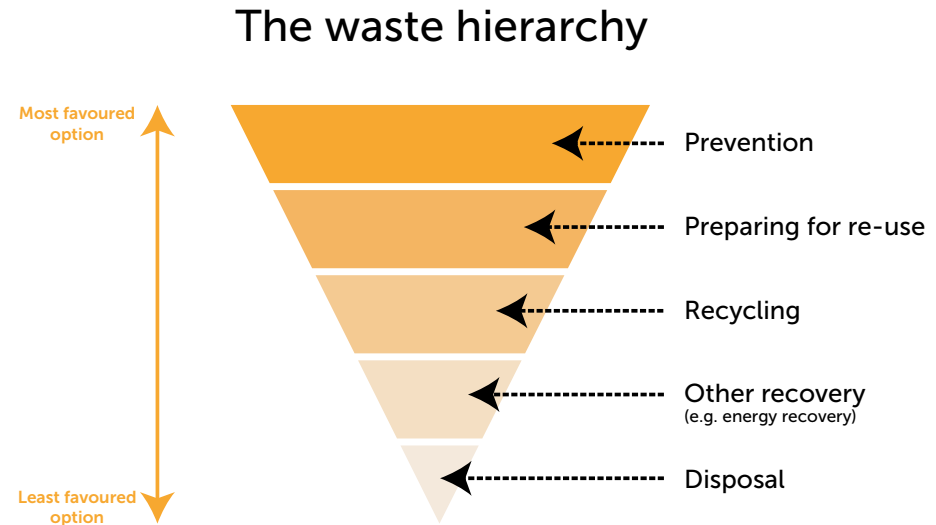
Waste management laws and policies affecting residents

What is best practice for waste?

It is a common misconception that only the Councils and MRWA are responsible for dealing with our rubbish, when in fact, our rubbish is everyone's responsibility.

Our increased awareness of climate change and the link to carbon emissions released from the collection and treatment of our waste forms the core of our Strategy. Almost 50 years ago in 1975, the "waste hierarchy" was introduced which emphasises the importance of minimising waste (rubbish), and the protection of our Planet (the environment) and People (human health) as priority.

The 'circular economy' idea expands this concept to a system that minimises resource use, waste and carbon emissions by



reducing the amount of stuff we buy and keeping products in use for as long as possible, for example by reuse and repair. This is one area where we can all contribute to climate action.

Reducing carbon emissions to combat climate change will benefit our People, Planet and Economy in general, through less extreme weather, leading to improved health, increased biodiversity and food (crop) security.

As residents and businesses, we are responsible for the rubbish we produce, and the ideal situation is we minimise our waste as much as possible. This can be achieved, for example, at a household level, by 'meal planning' (to reduce food waste), buying second-hand and products with less packaging, repairing and re-using items (rather than throwing them away and purchasing new).

Consistent with our Strategy themes of People, Planet and Economy, this trend is increasing through climate and

environmental awareness as well as recent rises in the cost of living. Changes we see here include, for example, furniture upcycling, buying from charity shops, minimising food waste, use of 'pre-loved' Apps etc.

Recognising the value of resources is reflected in the waste hierarchy as items that may be repaired and reused.

Only, if this is not possible, then items should be recycled either through your kerbside collections (the Councils' responsibility), at facilities in supermarkets or in one of the 16 Household Waste Recycling Centres in the region.

The Government also plays a fundamental role in both reducing and in the management of our rubbish, by setting targets, policies and legislative requirements.

We are working with our residents and businesses to encourage change and gain benefits for everyone by helping build our circular economy.

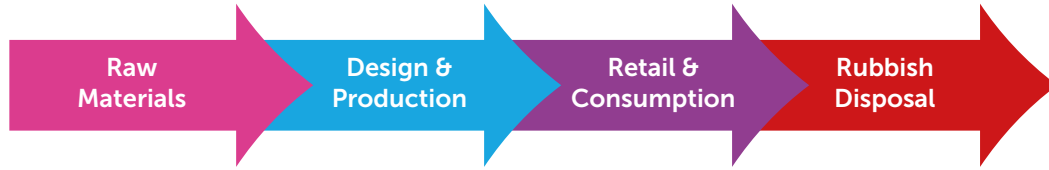
So, what is a circular economy?

3 principles:

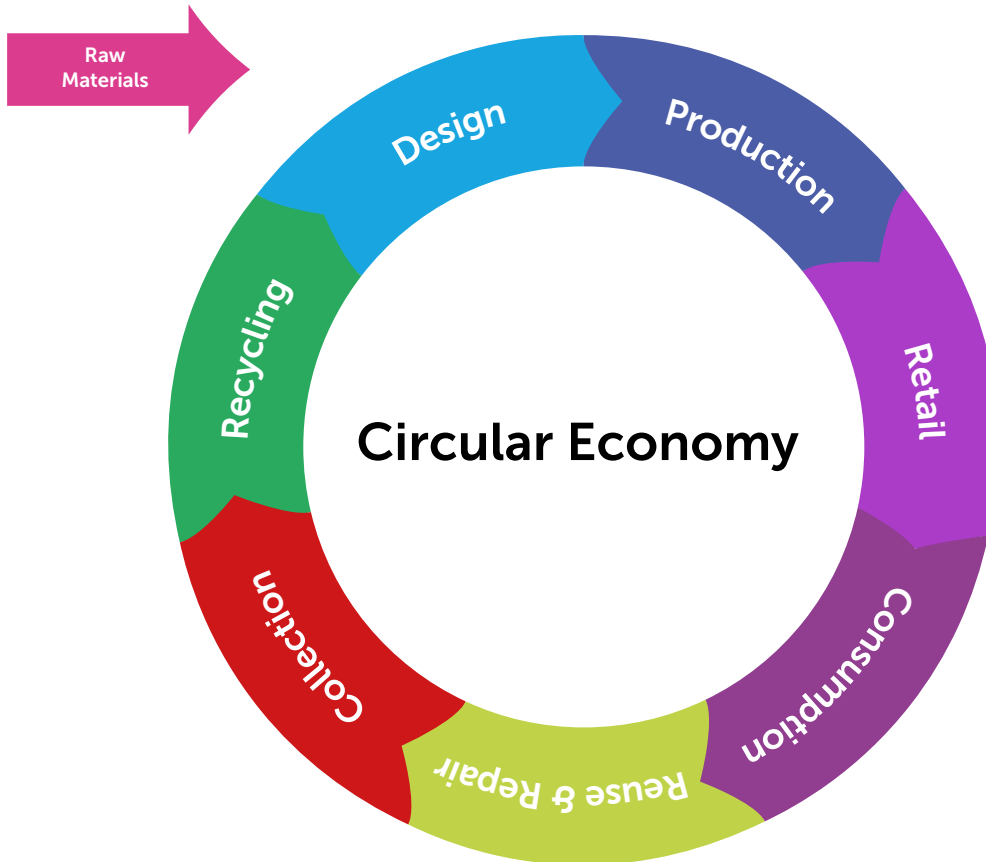
- **Design out waste & pollution**
- **Keep products & materials in use**
- **Repair & restore nature / natural environment**



Linear Economy



Changing to a



So, what does this mean to me?

Circular economy means we all try to minimise the rubbish we produce, and that we reuse, share and recycle as much as we can.

We are committed to helping you reduce food waste, signposting you to refill and reuse opportunities and improving your recycling.

What do we do with your waste?

The Partnership provides waste and recycling services for the 1.5 million people living in the Liverpool City Region.

Your Councils are responsible for collecting rubbish and recycling from households and some businesses, while MRWA is responsible for managing its recycling³, transportation, treatment and disposal. The Councils might collect rubbish in different ways, but every household is provided with a collection of:

- **recycling** (paper, cardboard, cans, glass bottles and jars, plastic bottles),
- **garden waste** and
- **“black bag” rubbish** that is sent for treatment and disposal (see below).

St Helens Council also provides a weekly collection of food waste to every household, and an increased range of materials in the recycling collection.

Our “black bag” rubbish is bulked up, put on a train and travels to an incineration process that recovers energy (electricity) from the heat generated by burning it, known as **Energy from Waste**.

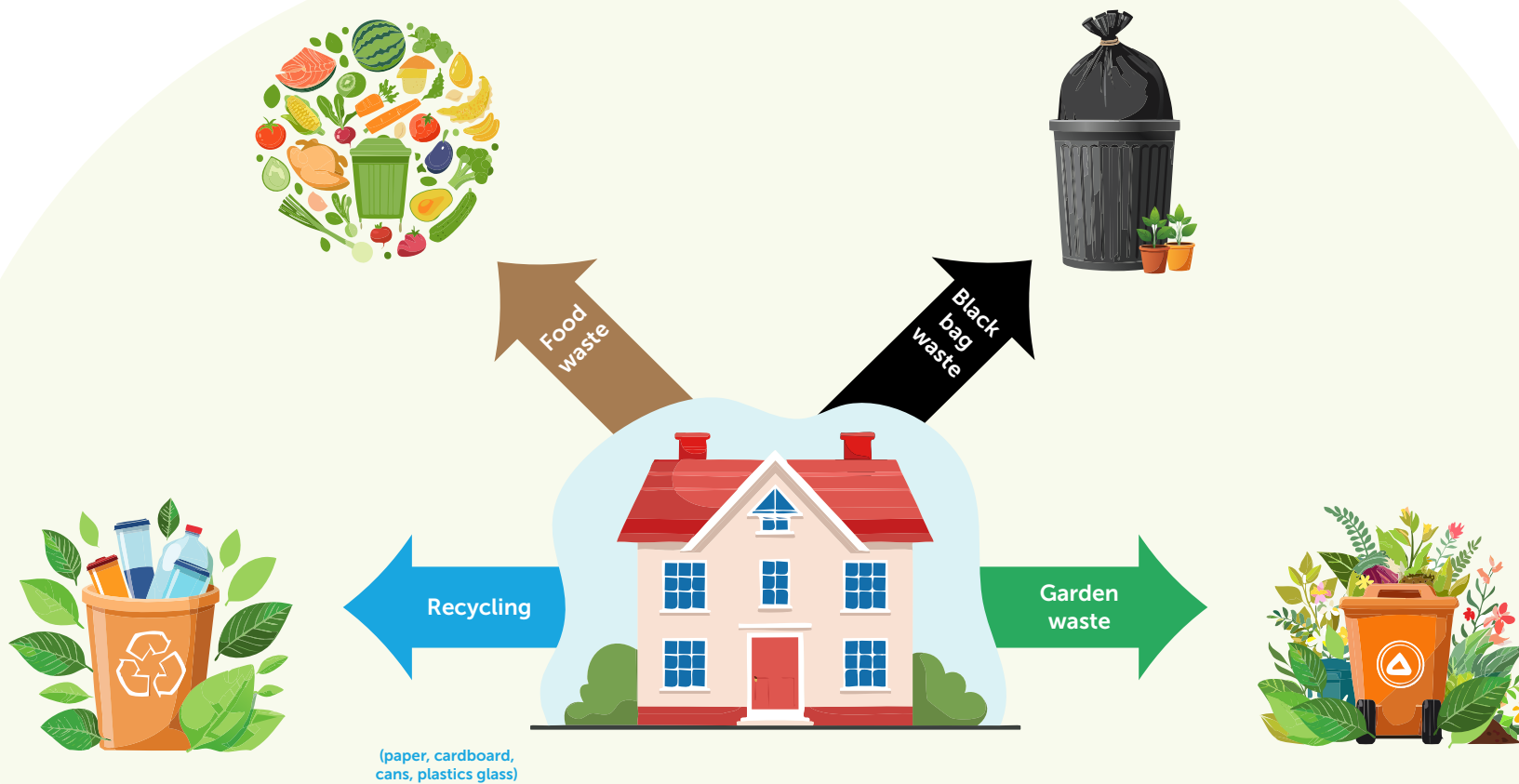
Residents can also request **bulky waste** to be collected if required. This is typically large waste items that won't fit into the bins / bags that residents are unable to take to one of the network of Household Waste Recycling Centres that MRWA provides across the region. The Household Waste Recycling Centres collect and recycle a wide range of waste types.

The Partnership is active in promoting waste minimisation, repair, reuse and recycling to preserve resources.

Our average recycling rate across the region in 2023/24 was 35.3%. However, recycling is only part of the picture to achieving zero avoidable waste. Importantly, we need to change our buying habits and **reduce all the waste** (food, recycling, black bag rubbish etc.) we are producing and try to minimise what we throw out.

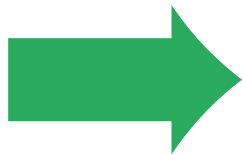
This will provide benefits to our People, Planet and Economy by reducing resource use and carbon emissions, and to help us keep the costs of managing waste down.

³ in most cases, some Councils also arrange some recycling activity



Household waste

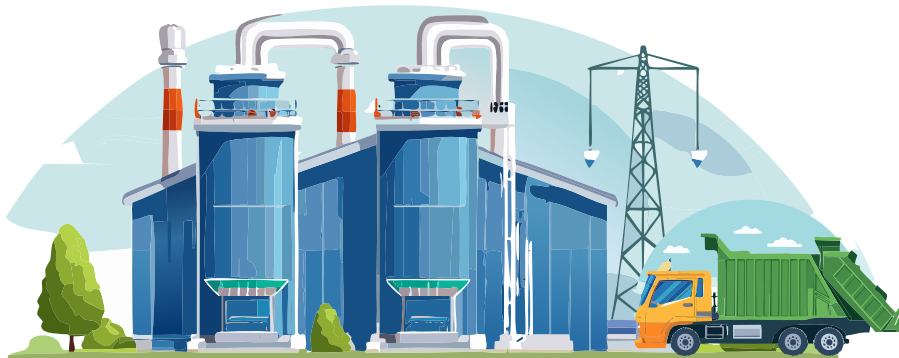
Councils collect rubbish and recycling and pay MRWA to deal with it.



Recycling

MRWA manages contracts to sort recycling into different materials and sells it.

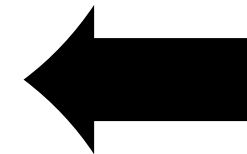
The funds generated help to provide services for residents and the MRWA Community fund.



Energy from Waste

MRWA has contracts with waste management companies to dispose of rubbish.

Electricity generated and sold to the National Grid.





What could the future look like?

We can improve our People, Planet and Economy by working together to reduce our waste.

Looking ahead at our Liverpool City Region and how waste will reduce depends on the changes each and every one of us makes. We have looked at three scenarios for how we can change our waste in the future, each involving different levels of change by each of us and your Council. These changes include how much we buy, what we buy and how the rubbish is collected by your Council. If we all make changes to these things, it can make a big difference.

If we continue with our current buying habits and ways of dealing with our rubbish, our waste will continue to grow, along with the associated carbon emissions and climate change effects.

4

If we make changes through the actions of our Strategy, we can make real reductions in the amount of rubbish we produce, which will also reduce our carbon emissions.

We need to move towards a circular economy, prioritising the repair and reuse of items to extend their lifespan, while also improving our recycling efforts.



How we can influence the amount of rubbish in the future



We can make positive changes to reduce waste and reduce our carbon footprint



The Partnership commits to promoting the circular economy in Liverpool City Region.

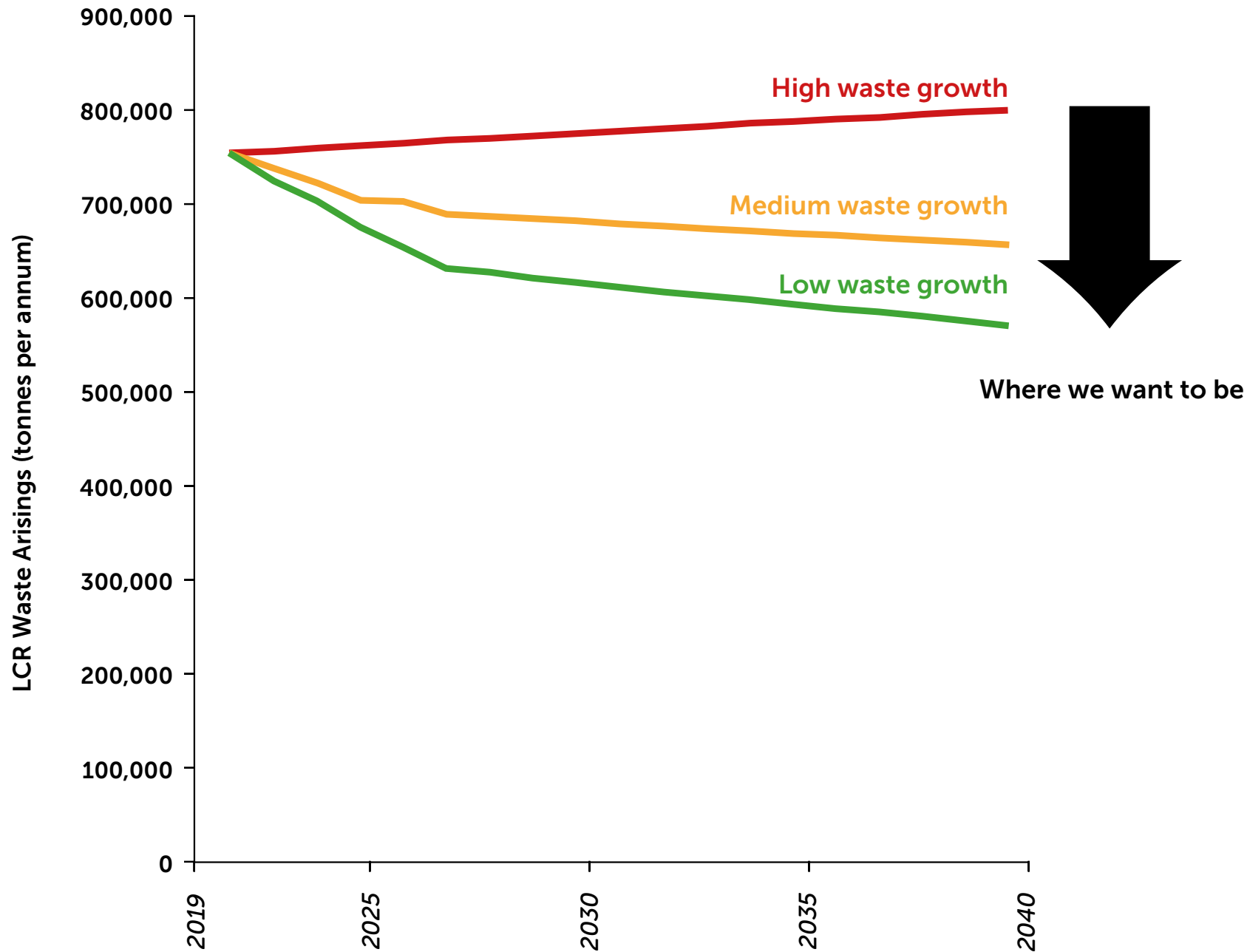
So, what changes are needed in the future?

Achieving zero waste will need Government support to ensure producers take responsibility for packaging and products as well as changes by The Partnership, such as weekly food waste collections, reduction in black bag rubbish capacity and increased recycling services, as well as changes by everyone in:

- waste awareness
- waste minimisation
- reuse and repair
- recycling initiatives
- purchasing behaviour



Potential rubbish and recycling from the Partnership – total arisings



What does a zero waste household look like?

Over time, more services will be available to households where items can be repaired, pre-loved items can be bought, or rented. The products in the shops will be designed for repair and recycling, so that very little ends up in your rubbish bin.

Everyday consumables like coffee, laundry powder, cereals will be sold from zero waste shops into refillable containers, avoiding the need for packaging.

Together, a future household will receive all the goods and services it needs, but using fewer raw materials than today, which means less damaging climate change emissions from extracting and making new materials, and less environmental harm from needing to throw lots of rubbish away.

How will we achieve zero waste?

5

Working together

Together, through changes in purchasing behaviour and development and use of sustainable products and services, we can reap far-reaching improvements for our People, Planet and Economy.

Achieving zero waste in Liverpool City Region will be challenging and it will involve us all working together to achieve the common goals to the benefit of our communities.

It will involve co-operation and co-ordinated actions from residents, community organisations, businesses, schools and commitments from the Partnership – to create a combined voice to promote change at a local, regional and national level.

The Liverpool City Region generates waste beyond the direct control of the Partnership, for example, waste from industry and agriculture, as well as businesses that the Partnership Councils don't collect rubbish and recycling from.

The Strategy will be implemented through the Partnership work programme, as well as individual partners strategies and plans, to achieve our Objectives with targeted efforts across all waste streams.

So, what is the future?

Remember to **SMILE** to achieve zero waste and low carbon, efficient waste services:

- **Significant waste prevention & reduction**
- **Maximising reuse & repair**
- **Identifying alternatives to buying new**
- **Less rubbish & more high-quality recycling**
- **Energy from Waste for only "unavoidable" rubbish that can't be recycled**

So, what are our targets?

Reducing the total amount of our rubbish by 2040:

- Reducing the total amount of rubbish handled by the Partnership by a third over by 2040
- Reducing our black bag rubbish by 50% of 2019 levels by 2040 – a maximum of 155kg/person
- Recycling 65% of municipal waste by 2035

This will be achieved by commitments from the Partnership.

The Partnership commits to providing efficient and effective resource and waste services.

For the waste within the direct control of the Partnership, it is estimated that by 2040 the amount of waste could reduce from approximately 760,000 tonnes per year to nearer 500,000 tonnes per year through our Strategy and implementation of the individual Council / MRWA strategies.

Without significant changes as set out in our Strategy, waste is expected to increase by around 70,000 tonnes per year by 2040 from current levels, due to a growing City Region.

This is rubbish generated by households and some local businesses; there will be additional waste from industrial and commercial sources within the Liverpool City Region administrative boundaries.

Through our Zero Waste Strategy, the amount of waste within the direct control of the Partnership could reduce by around a third, 260,000 tonnes per year, by 2040.

⁴ From the 2022/23 baseline
⁵ Where it is collected by the 6 Partner Councils

How will we change our “rubbish” attitudes?

Achieving zero waste requires residents and businesses in the region to make a significant effort to minimise the amount of rubbish we produce.

To facilitate the change of preventing as much waste as possible, the Partnership will increase education and awareness, promoting changes in buying habits and behaviours and encouraging items to be reused.

The Partnership commits to delivering effective education to all ages, to support people in their journey to zero waste.

The changes would lead to a big reduction in the amount of rubbish generated per person, ahead of the target set at a national level⁶.

The amount of “black bag” rubbish for disposal should reduce, by around two thirds, from the current level of around 475,000 tonnes per year to around 170,000 tonnes per year by 2040. This is a 65% reduction to the amount of our rubbish sent to Energy from Waste, mostly through a combination of waste reduction and increasing recycling. Reducing the amount of rubbish sent to Energy from Waste has significant benefits for climate change, as well as reducing the cost of treating our rubbish – People, Planet and Economy.

Although ambitious, our Zero Waste Strategy takes a pragmatic approach – we understand that some waste will be inevitable, not all waste can be avoided completely, but real progress can be made.

So, how do we change our “rubbish” attitude?

- **Changing our buying habits**
- **Buying second hand**
- **Borrowing and leasing**
- **Sharing items**
- **Composting**
- **Meal planning to minimise food waste**

The Partnership commits to working with our residents, businesses and communities to reduce wasteful behaviours encourage more waste prevention, reuse and recycling.

⁶ Environment Act target is for 50% of 2019 levels by 2042, i.e. a target of 155kg/person by 2042. The “low waste growth” projection is expected to achieve 102kg/person by 2040.

How will we reduce our waste?

Our Partnership will work together to minimise waste, which will also rely on changes at a national level through lobbying Government as well as locally, for example, through smaller bin sizes or reduced frequency of collection. Waste prevention includes avoiding some items (for example those with excessive packaging), reusing and repairing items, and reducing a large amount of food waste.

Looking in all the bins collected from our households together (recycling, “black bag” and food waste), around half of it might be considered to be “potentially avoidable waste”, although the removal of all of this from our bins is unrealistic in the Strategy period⁷.

The extent to which such items can be removed from the waste stream will depend on many factors, such as product and packaging design, reuse and repair initiatives, Government intervention and making ‘zero waste’ services easy for householders to use.

Some packaging items are covered by waste policy aimed at reducing waste and increasing good quality recycling, such as Extended Producer Responsibility for Packaging (see Section 3).

Alongside this Strategy, the Partnership work programme and individual partners' strategies, will support initiatives for reuse. MRWA's Zero Waste Map provides information on local zero waste shops and where we can take items for repair or reuse:

<https://www.zerowastelcr.com/zero-waste-map>

So, how can I reduce my waste?

We can all help reduce waste by making simple swaps to use reusable items, repairing things like appliances, clothing and furniture. Reducing food waste through meal planning and composting food scraps. By making small changes in our daily routines, we can significantly reduce the amount of waste we produce at home.

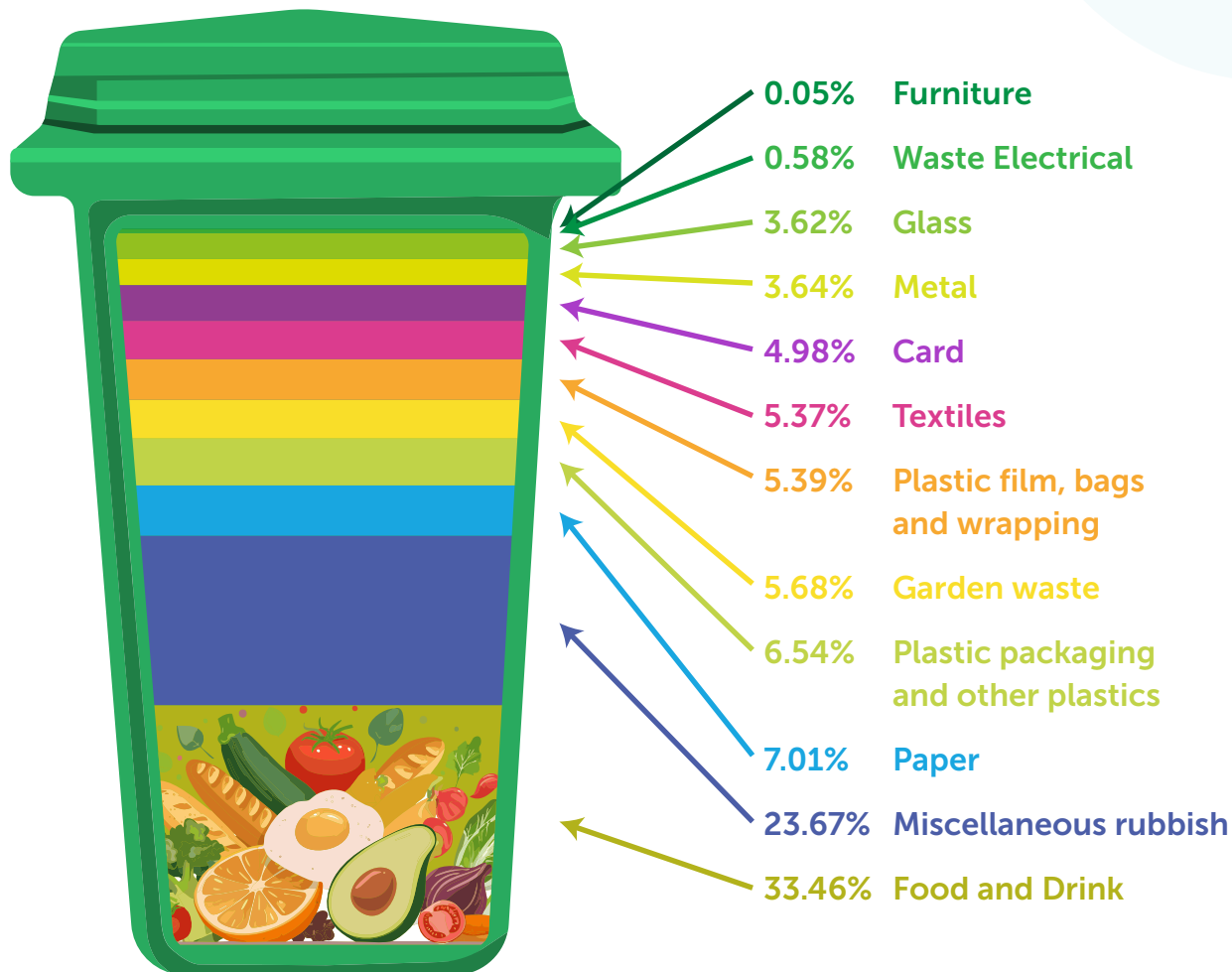
Some changes will be driven by others e.g. Government banning single use items or requiring separate food waste collections by 2026 and your Council altering your waste collections to encourage less rubbish in your bin.

Opting to refill and reuse will help reduce your rubbish and there are a growing number of opportunities to **refill and reuse** in the region.

⁷ Our modelling in the “low waste growth” projection is based on one-fifth of “potentially avoidable waste” being removed from our waste altogether.

What's in my bin?

The Partnership commits to supporting the development of a reuse culture by maximising opportunities to reuse or repair goods.



We can reduce the amount of rubbish we produce by making simple swaps to reusable items, repairing things, reducing food waste and recycling more.

Graphic above shows percent (%) waste type of the average LCR household residual waste bin (black bag rubbish). Data from LCR Waste Composition Analysis 2021/22.

What are the reuse opportunities?

Online

eBay
Vinted
Freecycle
Facebook
Marketplace
Too Good To Go
Frengle
Gumtree

Shops

Reuse shops
Charity shops
Refill shops
Zero waste shops

Community projects

Repair cafes
Swap events
Car boot sales
Nappy libraries
Library of things
Tool libraries

Other

HWRCs
Reuse hubs
Informal reuse
(community networks)
Rental schemes

Opportunities and options for re-use

How will we improve recycling?

For waste that cannot be prevented, reused or repaired, there are policy and legislation changes to support our Partnership, businesses and residents increase the levels of recycling of waste within the City Region. Simpler Recycling is a national policy which requires all Councils and waste collectors to recycle the same materials across England.

The Partnership commissioned a study to look at how waste might be collected from households in the future. The study weighed up the merits of different ways of collecting recycling, food waste and “black bag” rubbish, considering cost, carbon, how well they meet the national waste policy, operational issues around collection and treatment, and the likely impact on householders.

Changes may be needed, such as: different ways of collecting recycling and non-recyclable “black bag” rubbish or restricting bin size. These potential changes are in addition to those which will be required by law or national policy, such as increasing the range of materials collected for recycling, labelling products / packaging for whether they are recyclable or not and separate food waste collections to households. Each Partnership Council will develop its own strategy for waste collection, taking into account the unique demands of each area, with MRWA providing facilities and services for recycling and the treatment and disposal of our rubbish. Any changes to your services will be designed to provide benefits to our People, Planet and Economy.

There will be a need for treatment infrastructure to be developed for food waste and changes to recycling facilities as we add more materials, combined with more repair and reuse outlets. These changes will reduce the demand on disposal facilities for non-recyclable “black bag” rubbish and the associated carbon emissions.

The Partnership commits to providing collection and treatment infrastructure to maximise reuse and recycling.

So, how could our rubbish collection change?

Changes to our rubbish collections might include:

- Additional materials collected for recycling (e.g. plastic film, plastic pots, trays and tubs)
- More bins / boxes / bags for recycling
- Separate collections of food waste
- Reducing the size of our “black bag” rubbish bin
- Reducing the frequency of how often our “black bag” rubbish is collected

How can we reduce carbon?

The impact of carbon emissions is a huge issue for the world as a whole. Increasing carbon emissions from industry, agriculture and our day to day lives is putting the planet at risk through rising temperatures and extreme weather conditions. Waste and the things we buy have a big part to play, particularly on a local level. If we don't produce the rubbish in the first place, we don't have to collect it, transport it, treat it or dispose of it, all of which will provide climate action benefits from lower carbon emissions. We also conserve our planet's valuable resources and save money, if we are able to reduce the things we buy through reusing and repairing items, moving away from the take, make, waste, linear economy.

If we manage to reduce the amount of rubbish from homes and businesses in the Liverpool City Region by 2040 to the levels sought through the delivery of the actions within our Strategy, we could save over 80% of our current levels of greenhouse gas (carbon) emissions from the rubbish and recycling services. This is because lower amounts of overall waste means less transport and reduced impacts from disposal of "black bag" rubbish whilst recycling and composting also bring carbon benefits. The carbon emissions could be reduced further with an extensive reuse, repair and circular economy culture within the Liverpool City Region.

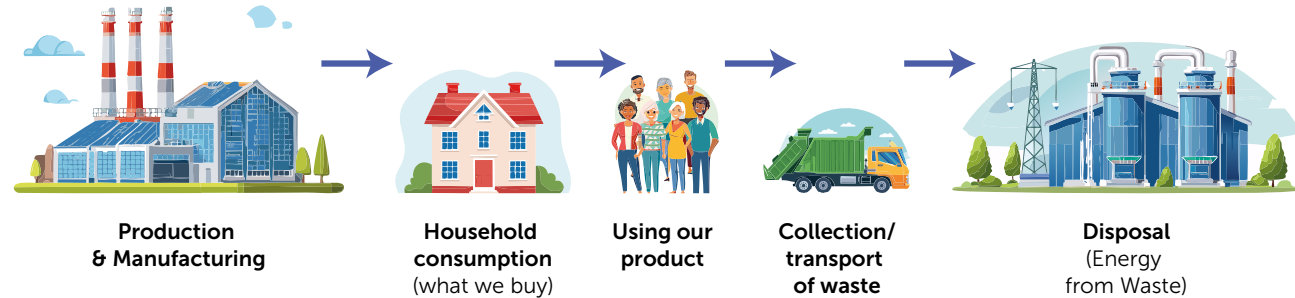
The Partnership commits to promoting home and community composting of food and garden waste.

So, how can I reduce my carbon emissions?

- Changing your buying habits
- By reusing and repairing items
- By keeping items in use for longer before we replace them
- Buy things with less packaging, e.g. at refill shops
- Recycling more
- Composting food and garden waste at home, or if that is not possible, using your Council's collections

Carbon emissions from what we buy and what we do with it

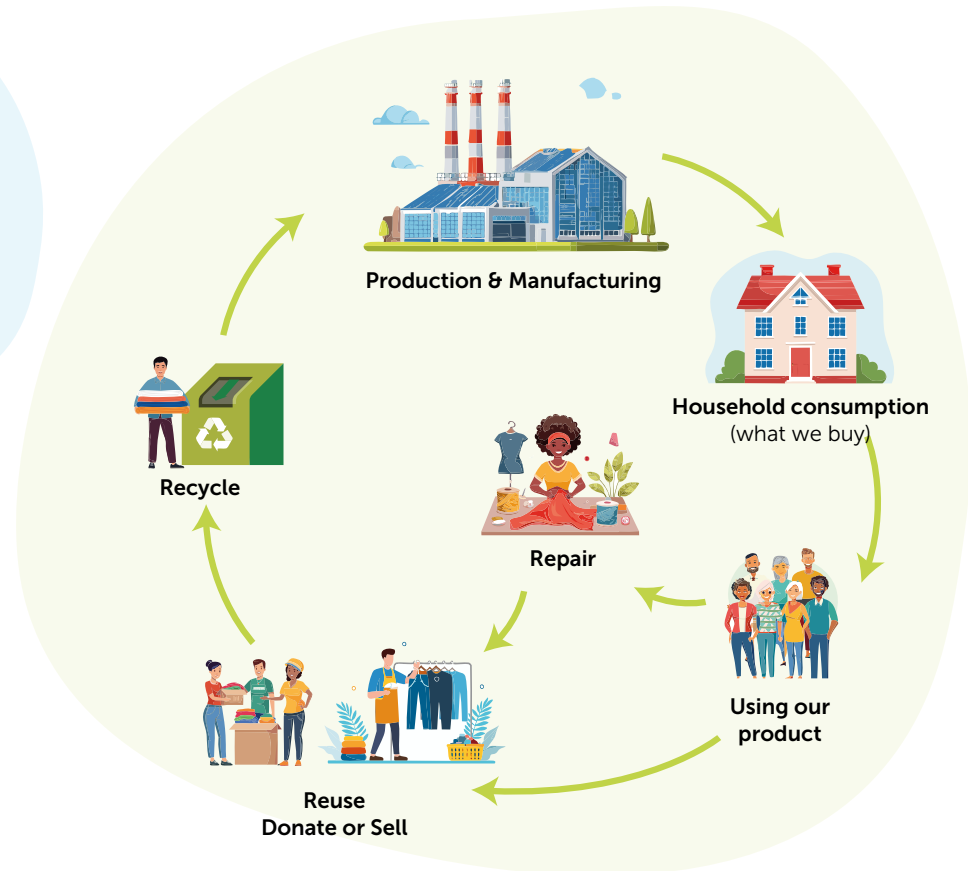
Linear economy – take, make, waste



Using clothing as an example, we can see how items we buy – and throw away – create carbon emissions.

Circular Economy – how keeping our resources in use for longer can reduce carbon emissions

By making a few small changes we can reduce these emissions by moving from a linear to a circular economy, and keeping the things we buy in use for longer.



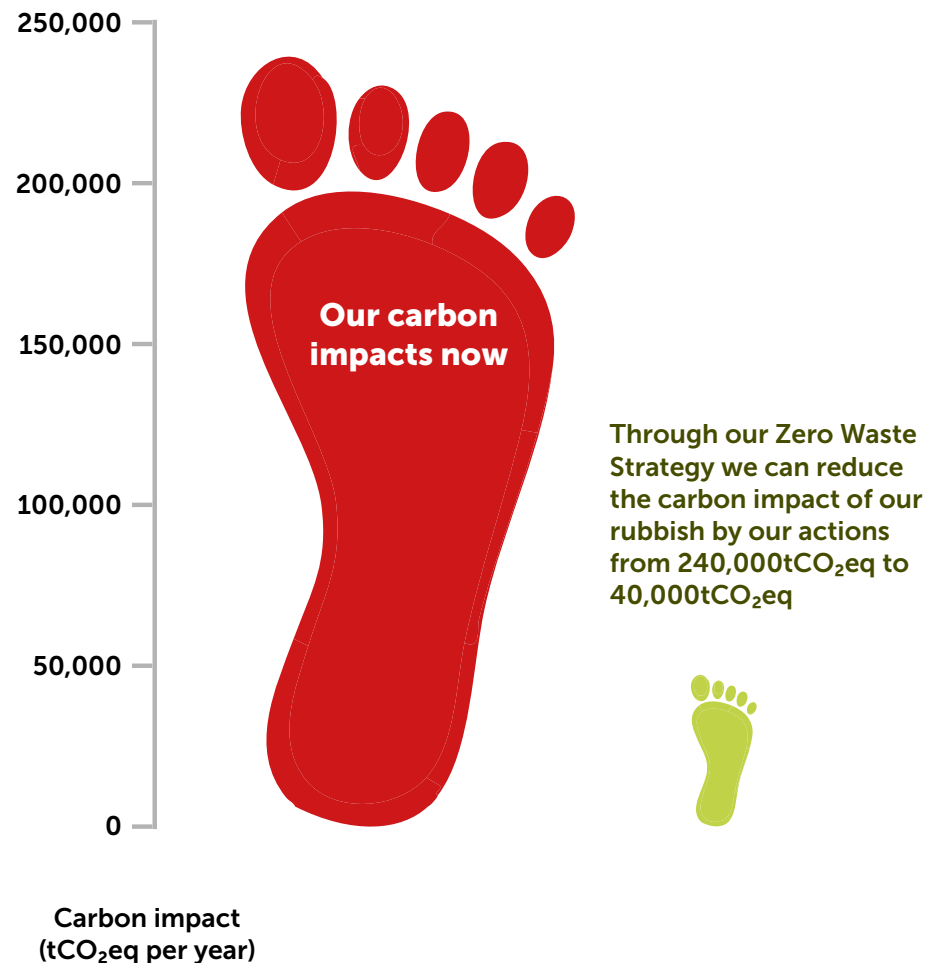
These reductions in carbon emissions would be a significant achievement for our region and our net zero carbon target – the carbon savings could be even greater with more levels of reuse and repair of items.

For example, work by WRAP⁹ gives the carbon impact of producing cotton textiles as around 25 tonnes of carbon per tonne of product, whereas there is a carbon benefit of reusing cotton textiles of around 15 tonnes of carbon.

Carbon emissions can therefore be reduced by avoiding producing new cotton material in the first place and by reusing it instead.

The Partnership commits to reducing carbon emissions from the collection and treatment of waste and recycling to support the achievement of net zero goals.

Possible carbon impact of achieving our draft Zero Waste Strategy aims⁸



⁸ Determined through 2023/24 carbon emissions factors

⁹ https://www.researchgate.net/publication/306145659_A_Carbon_Footprint_for_UK_Clothing_and_Opportunities_for_Savings

While we are aware that using fossil fuels in vehicles contributes to our carbon emissions and climate change, the carbon emissions from collection and transport of waste (compared to the rest of the carbon emissions from waste) is fairly low.

Moving from diesel bin trucks to clean electric or “green” hydrogen powered vehicles will however lower the carbon emissions further, and there are other benefits of from moving away from diesel vehicles, such as improving air quality and reducing noise.

The Partnership is committed to decarbonising their fleets and reducing waste through climate action plans.

The delivery of the actions within our Zero Waste Strategy could reduce the carbon emissions of our rubbish by over 80% with reduction of waste and improved recycling.



Making it happen

6

Delivering our vision of a Liverpool City Region without waste

Our Zero Waste Strategy will be implemented by The Partnership working together

Delivery of our Zero Waste Strategy will be led by the Partnership and achieved through the Partnership work programme which will encompass our interlinking themes of People, Planet and Economy, our strategic outcomes and our objectives. The actions for resource and waste management are interrelated and will be delivered by the Partnership as well as each of the Councils.

Much like a family tree, each of the actions will develop and branch out into more specific plans, together with indicators for measuring and monitoring. These plans will be 'live' and will evolve through the life of the Strategy together with formal reviews which will be undertaken of the Strategy every five years.

By achieving the objectives in this Strategy in the Liverpool City Region, with the right resources, investment and the commitment across our communities, zero waste by 2040 in the Liverpool City Region will be achievable, contributing to our net zero carbon target.

The Strategy cannot be achieved by the Partnership alone, it needs a holistic approach encompassing everyone, including Government, Councils, businesses, community organisations, schools and residents, to focus on a circular economy approach.

This can be supported through lobbying government to implement waste management policies such as Extended Producer Responsibility and Deposit Return Schemes to encourage producers of products and packaging to accept more responsibility for their items sold to the public.

It will also be achieved by improving and increasing the extent of reuse and repair facilities, community initiatives, working with schools, community organisations and residents to help reduce waste and better improve our recycling services.

All of Us: Government, Businesses, Community, Schools, Residents



**Achieving our Zero Waste Strategy
needs all the pieces of the puzzle
to fit together.**



**So, how will our Strategy
be delivered?**

Through focussing our actions on:

- Increasing knowledge, information and education
- Cutting consumption
- Recovering more resources

**We will deliver these actions through
the Partnerships' work programme
and Partner strategies, whilst
regularly monitoring progress against
our 3 key targets towards the LCR
becoming a Zero Waste region.**

Delivering Zero Waste

Our key Partnership actions to support delivery of the Zero Waste Strategy are shown here.

Increasing Knowledge, Information & Education

Engagement, behaviour & change

- Agree allocation of zero waste communications budget and staffing
- Develop a shared pool of zero waste and circular economy resources
- Financially support and promote community volunteering
- Consistent zero waste messaging across the Partnership and lobby government for waste reduction advertising campaigns
- Maintain stakeholder mapping across partnership to support messages and campaigns

- Develop & implement comprehensive Partnership zero waste and circular economy communications plan & campaigns, working with local communities and businesses, promoting 'lead by example' etc.
- Increase skills training opportunities in circular economy
- Working together and agree approaches to reduce incorrect waste disposal, fly-tipping and litter



Cutting Consumption

Waste reduction & reuse

- Develop a partnership cost structure that incentivises reduction and recycling
- Encourage home composting
- Establish and promote reuse and repair infrastructure and network
- Promote borrowing and leasing resources/services
- Promote reuseable packaging systems, refill services and local produce
- Embed zero waste principles across other sectors, e.g. construction, agriculture and manufacturing



Recovering More Resources

Recycling & energy recovery

- Optimise waste and recycling collections and infrastructure to improve efficiency and circular approach
- Implement separate food waste and expanded recycling collections
- Explore carbon reduction measures and reporting across waste services to achieve net zero targets
- Undertake a circular city region scan

Supporting Reports

1. SEA Screening
2. Opportunities for Reuse
3. Waste Growth
4. Carbon Modelling

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