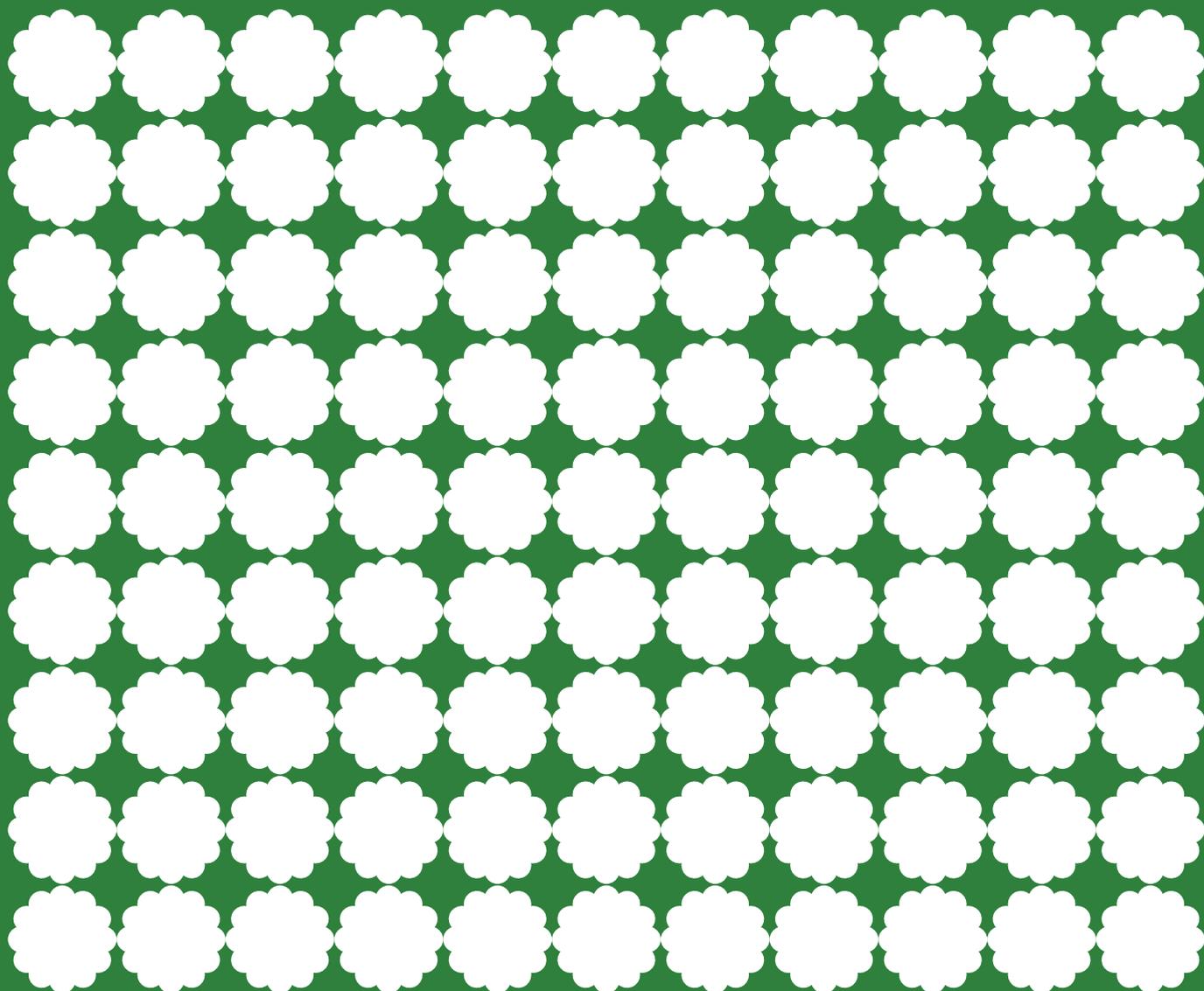


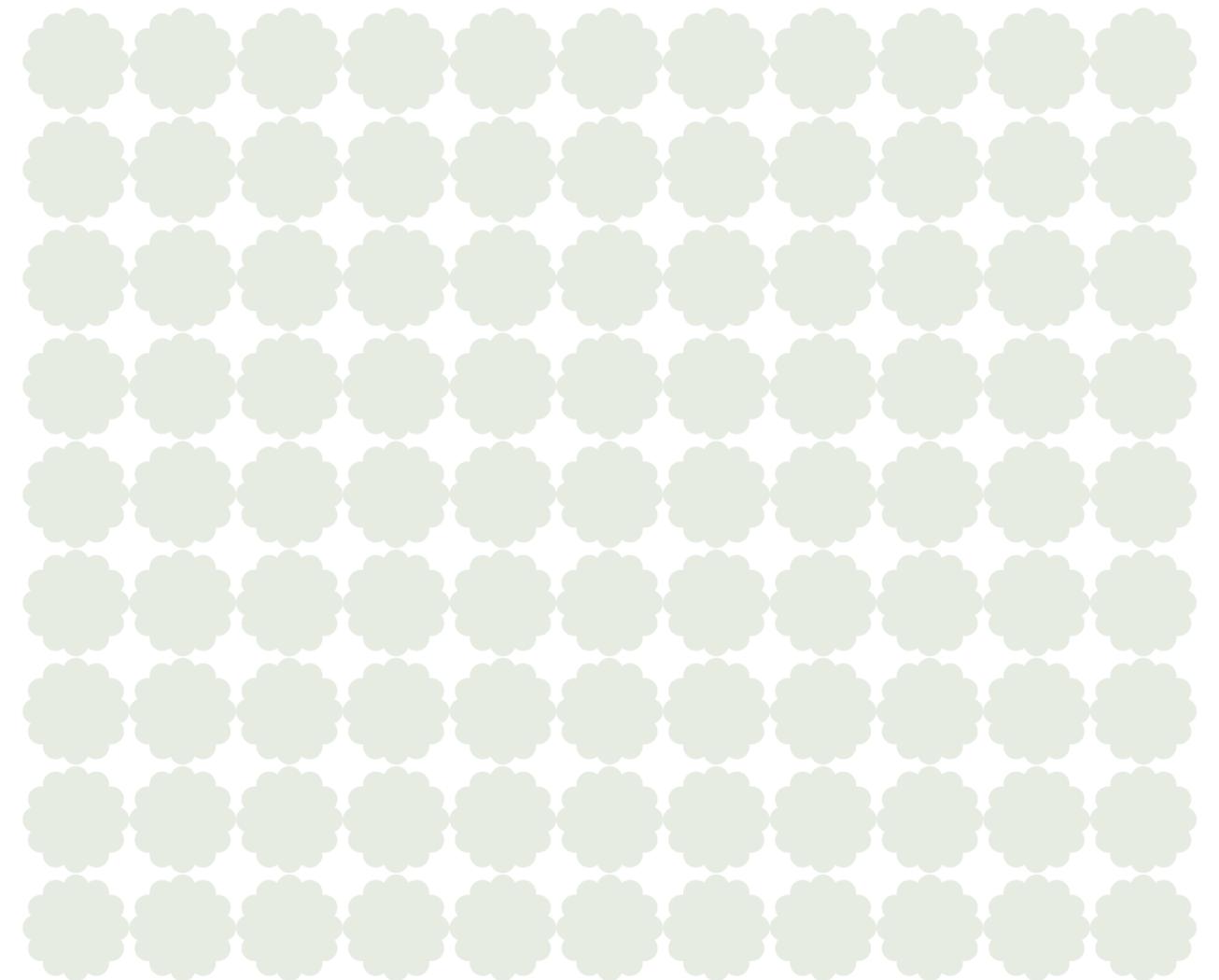
Sustainable Consumption and Production Plan

2022-2025



Sustainable Consumption and Production Plan

2022-2025



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1. Introduction, Scope and Recommendations

1.1 Introduction

Greater Manchester's Environment Plan was launched at the Green Summit in March 2019 setting out ambitious proposals to be carbon neutral by 2038.

As part of that Plan, it recognised that to build a thriving and sustainable city region we need to work together to promote economic and resource productivity, eliminate waste and increase business opportunities through innovation. The United Nations' (UN) Sustainable Development Goal (SDG) 12 is Sustainable Consumption and Production, recognising that it is critical for achieving transformative change.

The Sustainable Consumption and Production (SCP) Plan sets out how Greater Manchester can contribute to becoming carbon neutral primarily focusing on scope 3 emissions (figure 1).

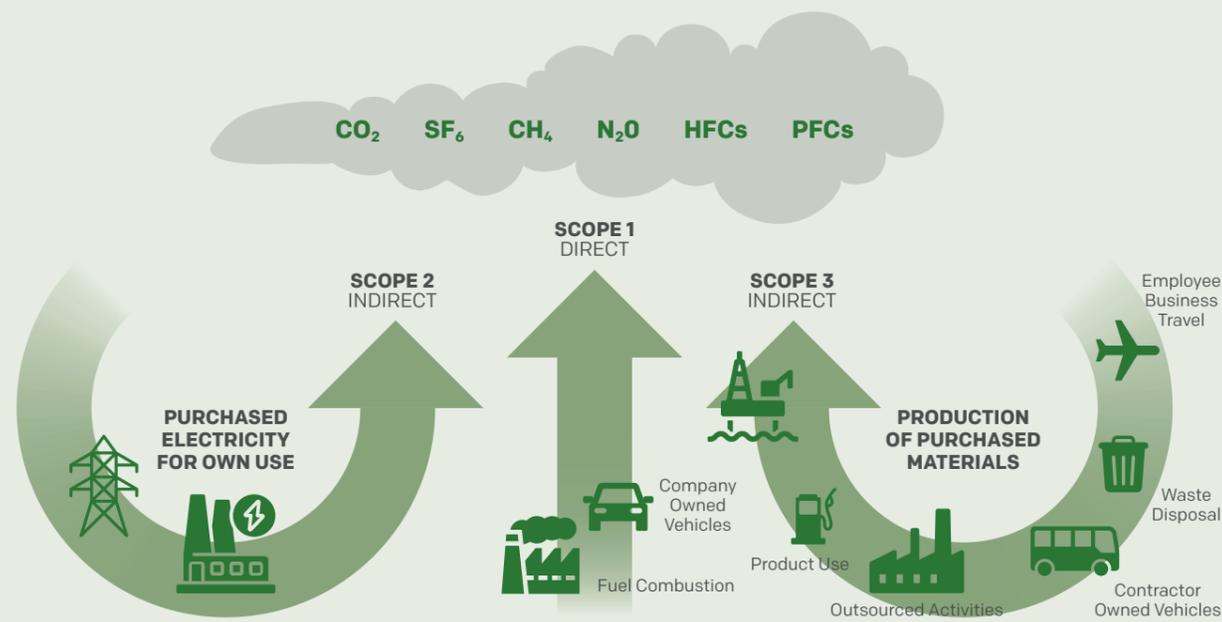


Figure 1: Scope 1, 2 and 3 emissions
Source: United Nations Environment Programme

There are many components that are covered within SCP. These include waste management, sustainable resource management, sustainable lifestyles, sustainable marketing, sustainable procurement, eco-labelling and certification, sustainable transport, cleaner production and resource efficiency and design and sustainability (see figure 2).

The SCP Plan, except for sustainable transport, will focus on all elements that make up sustainable consumption and production through 4 key priority areas.

Priority 1 - Moving to a Circular Economy focusing on sustainable resource management; design, production & resource efficiency; and sustainable procurement.

Priority 2 - Managing Waste Sustainably focusing on waste management and sustainable resource management.

Priority 3 - Reducing Food Waste focusing on waste management, sustainable procurement and sustainable lifestyles.

Priority 4 - Sustainable Lifestyles focusing on changing behaviour to empower residents to make more sustainable lifestyle choices.

To aid the delivery of the SCP Plan a range of techniques, drivers and tools will be used to drive change. Techniques include closed loop production, life cycle assessment and resource efficiency. Enablers include stakeholder engagement, product and policy mapping. Drivers include customer demand, markets and competition, and costs and penalties (see figure 3 below).



Figure 2: Components of SCP
Source: United Nations Environment Programme

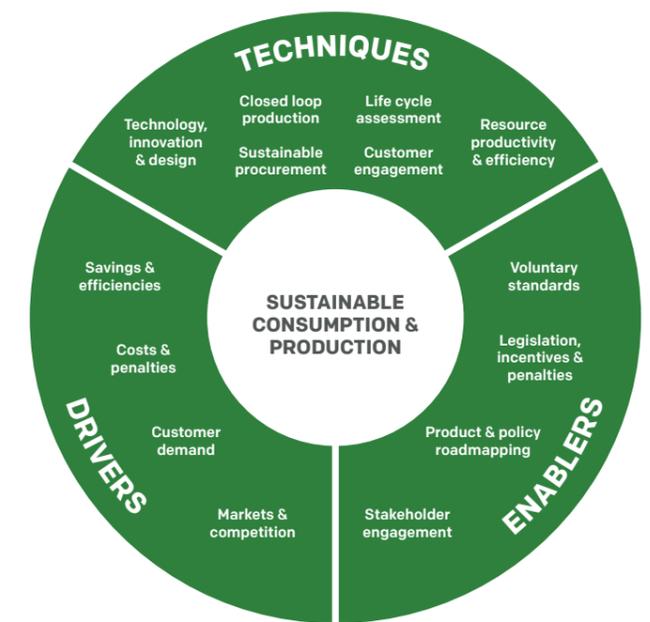


Figure 3: Techniques, Enablers and Drivers to achieve SCP
Source: United Nations Environment Programme



1.2 Scope

This report focusses on the actions needed to move businesses to circular economy models and enable Greater Manchester citizens to make changes to become more sustainable. Both can deliver multiple benefits. The report focuses on the priorities and actions required to impact on CO2 and Greenhouse Gas (GHG) emissions, but also recognises that the sustainable living priority, through promotion of behaviour change initiatives and campaigns, will aid the delivery of other key plans such as Greater Manchester's Smart Energy Plan and Decarbonising Greater Manchester's existing buildings report.

In terms of the priorities related to sustainable consumption and production, the report sets out four priority areas, which have been developed with partners to achieve Greater Manchester's aspirations, these are:

1. Moving to a circular economy
2. Managing waste as sustainably as possible
3. Reducing avoidable food waste
4. Moving to a sustainable lifestyle

1.3 Structure of this report

The subsequent sections of this report are structured as follows:

Section 2:

Why Greater Manchester needs to act now.

Sections 3, 4, 5 and 6:

Focus on each priority area.

Section 7:

How recommendations set out in this report should be taken forward by the GMCA and key stakeholders.

1.4 List of recommendations

1.4.1 Moving to a circular economy

1. To develop a roadmap to Circular Economy (CE) including cross industry resource efficiency through design and production, commercial trading of materials, energy, sharing assets, logistics and expertise, to reduce the volume of raw materials used and eliminate waste.
2. To work with stakeholders to establish a collaborative forum that covers a range of Circular Economy (CE) aspects with leadership and delivery of key areas such as legislation, business to business (B2B) and Procurement.

3. GMCA to develop a Sustainable Procurement Strategy promoting circular economy procurement principles, the social value framework and commissioning strategies whilst supporting policy development and decision-making toolkits.

4. To undertake resource and consumption mapping to enable a sector approach to becoming a circular city region.

5. To continue to work with industry, academia and other stakeholders to drive innovation to reduce raw material consumption, value resources and stimulate sustainable end markets.

1.4.2 Managing waste as sustainably as possible

1. To maximise the reduction of waste and reduction of emissions through policy development initiatives.

2. The GMCA to work with local collection authorities to evaluate and assess the environmental and financial implications of implementing the requirements of the new Environmental Act, secondary legislation and statutory guidelines.

3. Partners across Greater Manchester should collaborate and carry out further research, pilots to drive innovation and explore new ways of working to solve existing challenges.

4. To identify opportunities to develop GM wide recycling collection and disposal solutions for businesses within Greater Manchester.

5. GMCA, local authorities, businesses, and the waste industry to continue to work to minimise waste and improve the quality and quantity of municipal waste recycled.

1.4.3 Reducing avoidable food waste

1. To maximise the reduction of food waste and GHG emissions through policy development initiatives.

2. Partners across Greater Manchester should collaborate to create a delivery model to enable Greater Manchester to become a sustainable food city region.

3. Work with key partners to deliver a programme of Greater Manchester wide campaigns focusing on the co-benefits of reducing and then recycling food waste.

1.4.4 Moving to a sustainable lifestyle

1. Partners across Greater Manchester should work together to promote sustainable lifestyles through media campaigns.

2. GMCA continue to develop the Green Cities website to demonstrate and showcase the progress the city region is making in becoming carbon neutral by 2038. The website will be supported by a Communications Plan developed with stakeholders to promote the benefits of moving to a sustainable lifestyle.

3. GMCA to create an internal climate change impact awareness training, which potentially could be rolled out to other public sector bodies.

4. To identify funding streams with partners to work with communities to develop and promote SCP initiatives which also improve social, environmental and economic well-being.

5. To continue to work together with local authorities, partners and stakeholders to effectively implement the SCP Plan through the 5-Year Environment Plan's ambitions to establish a mission-oriented approach to tackling Greater Manchester's environmental challenges.

1.5 Target indicators

The table below sets out the target indicators we will track to measure progress under the 4 priorities of the SCP Plan¹.

SCP Priority	Target indicator
Moving to a circular economy	<ul style="list-style-type: none"> • 38% reduction in industrial emissions by 2025 and a 50% - 77% reduction by 2038. • Reduction in raw material consumption
Managing waste as sustainably as possible	<ul style="list-style-type: none"> • 65% recycling rate for municipal solid waste and no more than 10% to landfill by 2035.
Reducing avoidable food waste	<ul style="list-style-type: none"> • Reduction in avoidable food waste working towards the Government's Resources and Waste Strategy ambition of eliminating avoidable waste of all kinds by 2050.
Moving to a sustainable lifestyle	<ul style="list-style-type: none"> • Reduction in residual waste sent to landfill and incineration.

¹ Targets are supported by research by the Tyndall Centre for climate change. Further indicators to measure progress against the SCP actions will be agreed as part of an Implementation Plan to be developed with the SCP Challenge Group. We cannot establish all indicators immediately because the data we need does not yet exist. Part of our approach within this Plan is to determine how we gather more data.



2. Why does Greater Manchester need to act?

2.1 There are multiple benefits

Taking action within the scope of SCP can have multiple benefits across numerous areas:



1. For people:
for citizen's health, education, jobs, income and productivity.



2. For the economy:
improved productivity and the potential for creation of new jobs and new skills as well as reduced pressures on public finance.



3. For the environment:
contributing to reducing CO₂ and GHG emissions.



2.2 Benefits for Greater Manchester's residents

By moving to more sustainable lifestyles there are numerous benefits for residents:

1. Health and Well-Being Benefits

- Reducing energy demand by making improvements to a building's fabric can have substantial benefits; excess winter deaths are three times higher in the coldest quarter of homes compared to the warmest quarter.
- Reducing utility bills can have positive health benefits including on nutrition (for example, how well a household can afford to eat) and mental well-being (less stress of the financial burdens of household bills and expenses).
- Bringing people from communities together to carry out works that improve social, environmental and economic wellbeing.



2. Economic Benefits, for example:

- Switching to renewable energy, improving installation within homes and monitoring water consumption can reduce household bills.
- Upcycling and using products for longer will reduce expenditure and extend a products lifecycle.
- Improving energy efficiency can also have a positive impact on public spending, both in terms of demands on health-related illnesses on the NHS and in undertaking energy efficiency programmes within the public sector estate to redirect potential savings into other public services.
- Reducing food waste²; an average of £730 per family per year of household food waste (excluding inedible parts) is wasted each year.
- Moving to the five CE Business Model types: Circular Supplies, Product Life Extension, Resource Recovery; Sharing Platforms; and Product as a Service can minimise waste and increase economy within GM.



2.3 Benefits to the Environment

2.3.1 The scale of the challenge

The vision of how the city region will become carbon neutral is set out within the 5-year Environment Plan. The Plan is based on research by the Tyndall Centre for Climate Research, which calculated a carbon budget for Greater Manchester that is compatible with the Paris Agreement. During the development of the Plan, research was commissioned 'Setting City Area Targets and Trajectories for Emissions Reductions (SCATTER)³ to understand potential CO2 emission reduction pathways.

The graph below (figure 4) sets out the potential carbon reduction pathways for Greater Manchester from the SCATTER model, which the actions within the 5-year Environment Plan are based on, against the budget recommended by the Tyndall Centre's research. The SCATTER model provides different emission reduction pathways depending on local decisions taken across 40 different interventions, which can each be implemented to 4 different extents.

This sets out two scenarios:

- A 'SCATTER Level 4' pathway (each of the 40+ interventions pulled to maximum extent), where carbon neutrality is possible to achieve but even under this scenario emissions of nearly 20% above the Tyndall Centre's recommended budget⁴ are produced in Greater Manchester by 2050
- Under 'SCATTER GM' pathway (an estimate of what is currently planned and what might be achievable in the future in Greater Manchester) emissions of over double the Tyndall's recommended budget are produced by 2050.

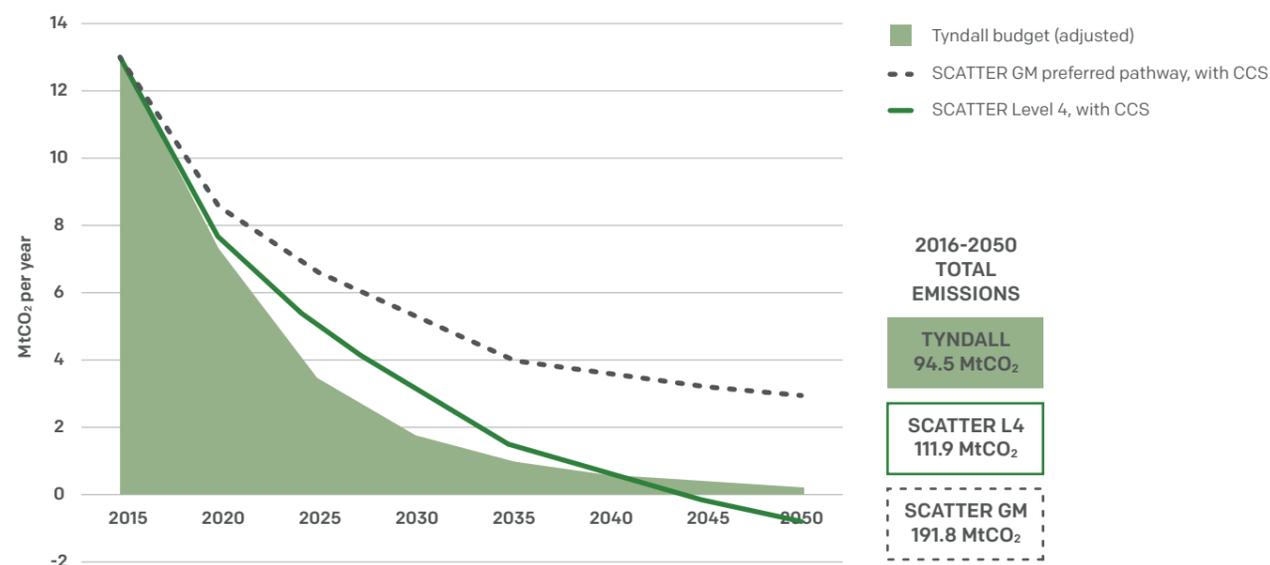


Figure 4: Potential Carbon Reduction Pathways for Greater Manchester
Source: Anthesis

² <https://wrap.org.uk/sites/default/files/2020-11/Food-surplus-and-waste-in-the-UK-key-facts-Jan-2020.pdf>
³ <https://www.anthesisgroup.com/scatter-carbon-footprint-reduction-tool>
⁴ Extrapolated to cover 2015-2050 from 2018-2050 in Tyndall Centre's original report

2.3.2 SCP and CO₂ emissions

Underpinning those trajectories, the models show us the scale of change required and an indication of actions required to achieve the level of reduction.

Figure 5 below shows how Greater Manchester's CO₂ emissions are broken down by sector and the level of change required in each of those sectors to achieve the SCATTER GM pathway.

The SCP Plan cuts across all sectors, from reducing industrial and commercial emissions to reducing waste to households. Along with other key performance indicators outlined within the Plan, the number of levers from THE SCATTER model will also be monitored.

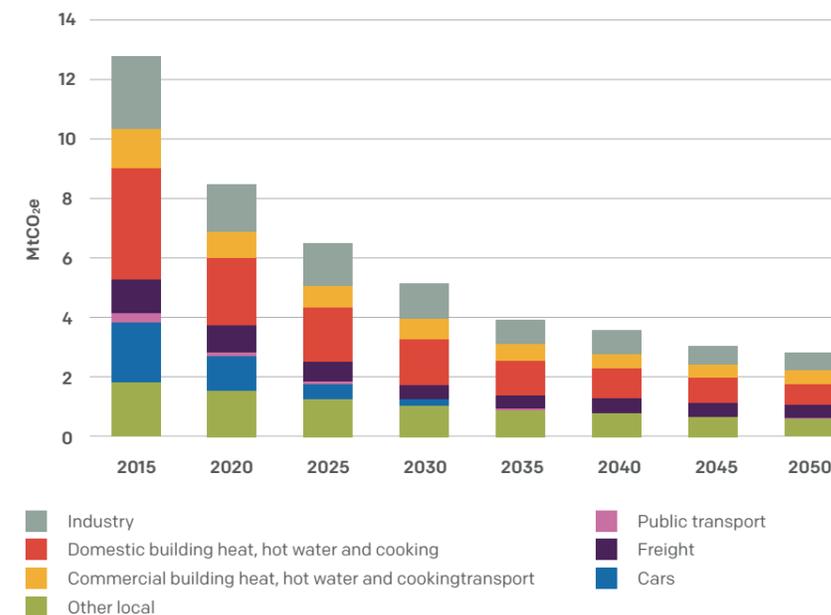


Figure 5: Sectors where emission reductions come from ('SCATTER GM' pathway).
Source: Anthesis

Industrial and commercial emissions

One of the levers within the SCATTER model is industrial and commercial emissions. The model is based on those emissions reducing by 38%.

The graph below (figure 6) shows that in order to meet that target a reduction of 232.8 KtCO₂ (7.6%) is needed year on year therefore 'doing nothing' is not an option.

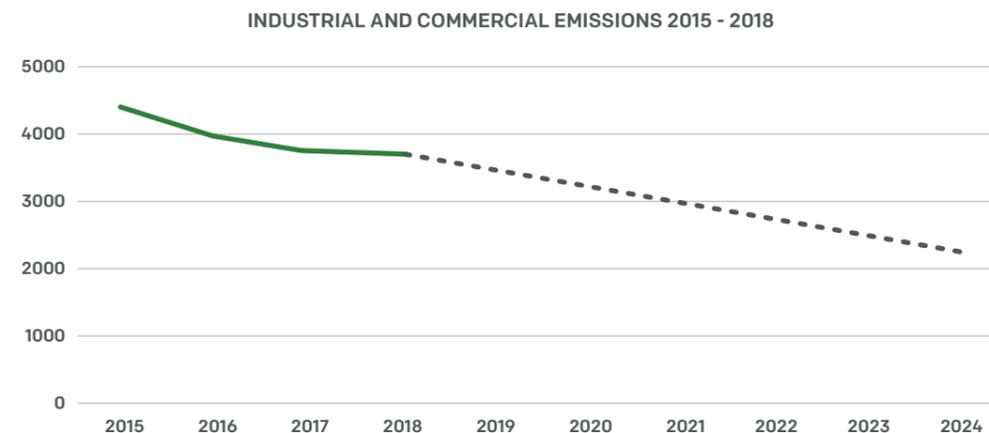


Figure 6: Industrial and Commercial emissions
Source: <https://www.gov.uk/government/statistics/uk-local-authority-and-regional-carbon-dioxide-emissions-national-statistics-2005-to-2018>

Waste Prevention

To protect our environment, we need to reduce waste. Whilst it is recognised that some amount of waste is inevitable, we need to do as much as we possibly can to manage it in the most effective way.

Waste Prevention is critical to becoming more resource efficient as it addresses pressures of reducing unnecessary production and processing and therefore costs, as well as carbon emissions associated with those processes. Figure 7 shows how waste prevention can be achieved within each stage of production and consumption through to end of life.

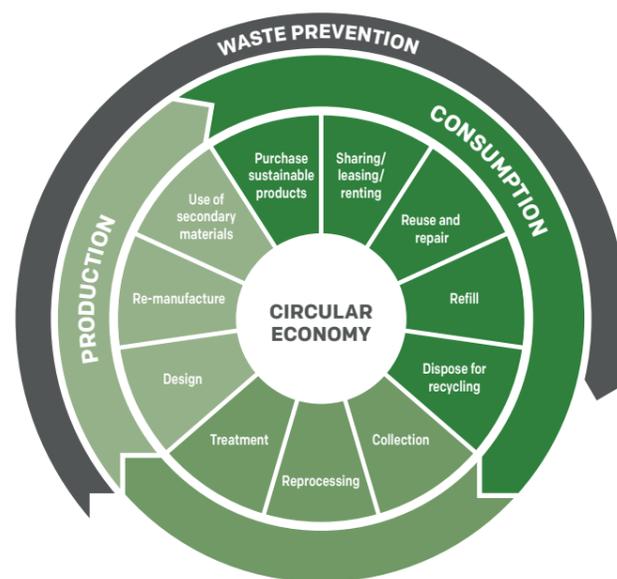


Figure 7: Waste Prevention and Circular Economy
Source: Defra: Waste Prevention Programme 2021

1. Production – Design, remanufacture, use of secondary materials.

2. Consumption – Purchasing sustainable products, sharing/leasing/renting, reuse and repair, refill, dispose for recycling.

3. End of life – Collection, reprocessing, treatment.

To monitor the city regions progress in reducing the waste produced, two key indicators⁵ will be used:

1. Raw material consumption – currently this indicator is only available at a UK level so we are assessing how this can be best proportioned to Greater Manchester; and

2. Domestic residual waste – this indicator is available at a Greater Manchester level and will enable us to monitor the amount of general waste being produced, and the amount of waste not being recycled, reused or repaired.

It should be noted that work is currently on-going to amalgamate the Combined Authority’s waste management data (9 of the 10 Districts) and Wigan’s waste data, who are both a collection and disposal authority.

The data contained in this Plan is predominately the data from the Combined Authority (excluding Wigan).

The SCATTER model uses a lever that waste arisings should not exceed 20%. This is based on projected population and housing growth. Figure 8 shows the current kilogrammes per household per year that has been collected along with the waste increase limit.

The graph opposite shows how close the GMCA is becoming to exceeding the 20% increase, and this does not include Wigan and business municipal waste, therefore with population (currently 2.8m with projected increase of 13% by 2040) and housing growth forecasted to increase within Greater Manchester, waste reduction is critical if this target is to be achieved.

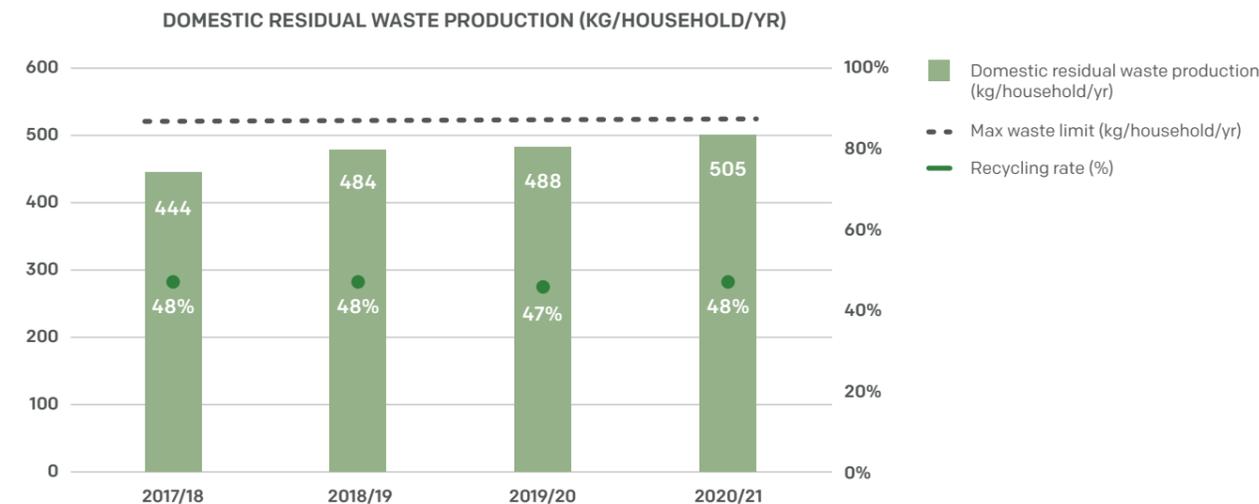
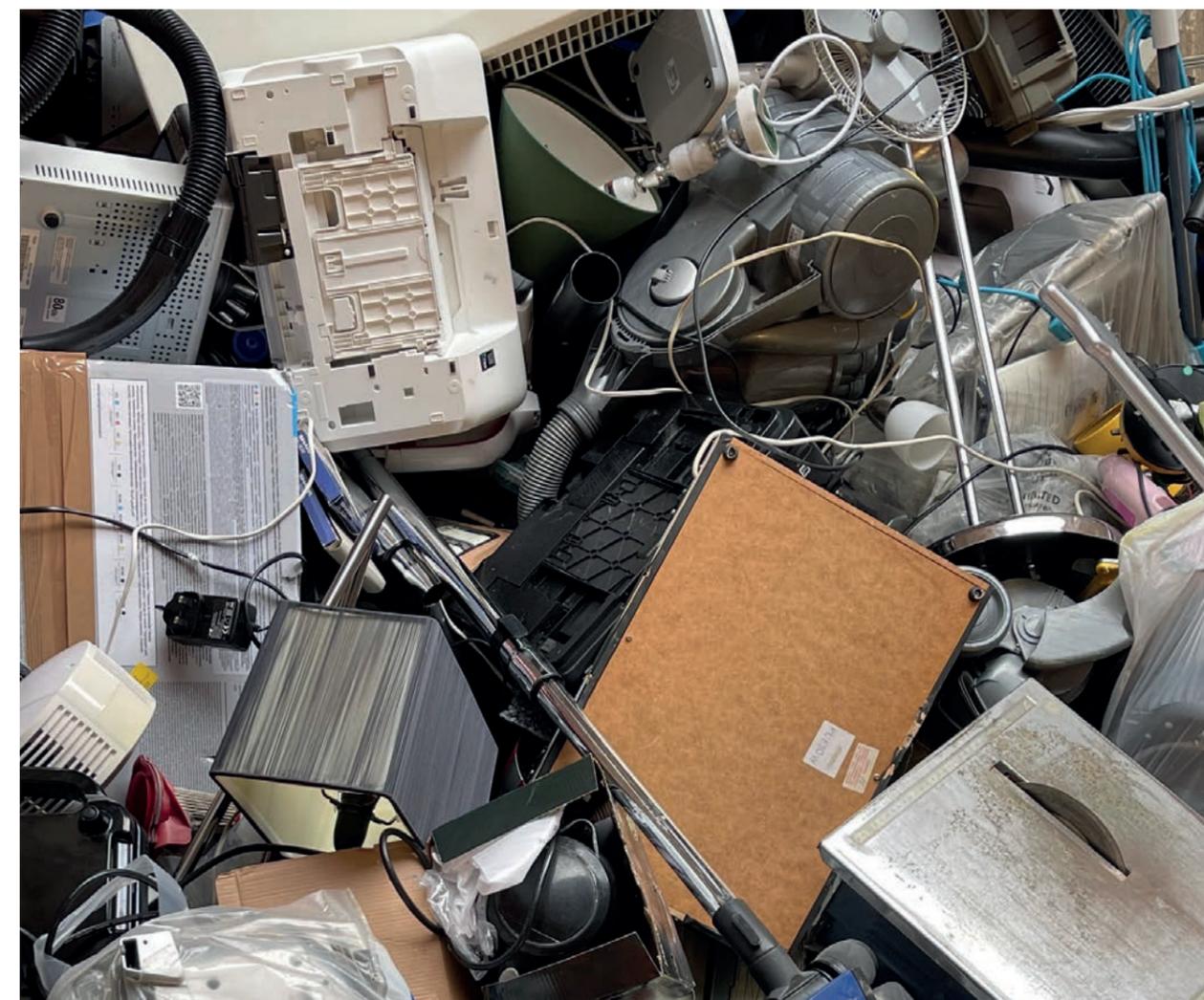


Figure 8: GMCA’s Domestic Residual Waste (Kg/hh/yr) and Recycling Rates
Source: Waste Data Flow



⁵ The Government is set to establish new monitoring targets in future years. For example, Under the Environmental Act a consultation is currently open to halve the amount of residual waste that goes to landfill or incineration by 2042. Indicators within this plan will be reviewed and revised as new measures are released.

Recycling Rates

Another lever used in SCATTER is recycling rates. This is based on the European Union’s Circular Economy directive has been transposed into English law through the Environment Act and sets the requirement to achieve 65% municipal waste recycling rate by 2035. Recycling is an important factor in the waste hierarchy and enables resources to be reprocessed and made into new products. This spares the environment the carbon impact of extracting and processing virgin materials.

The definition of municipal waste, as described in the CE Directive, includes both household waste and that from other sources which is similar in nature and composition.

This means that the recycling target of 65% will include a significant proportion of waste generated by businesses, which is not collected by local authorities.

As the only data held by the GMCA and Wigan is household waste, that is the only data set out in this Plan. Given the definition of municipal waste, this supports the recommendations within this Plan to strengthen the availability of business municipal waste data.

Currently, as of February 2022, GMCA’s recycling rate is 46% and Wigan’s is 52% (see figure 9). However, until we understand the recycling rate of business municipal waste it is impossible to know how far the city region is away from achieving this target.

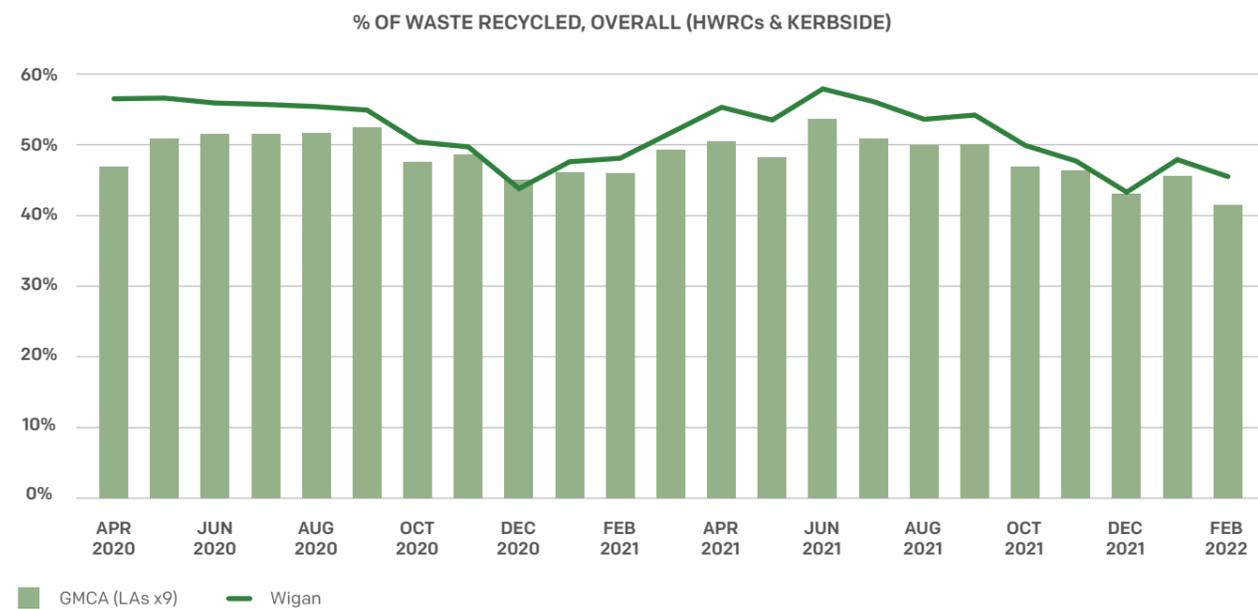


Figure 9: GMCA and Wigan’s Waste and Recycling Rates
Source: Waste Data Flow data

Reducing Food Waste

Within the UK over 10 million tonnes of food and drink⁶ are wasted post-farm gate annually. This waste is both costly and is damaging the environment. Currently a fifth of UK greenhouse gas (GHG) emissions are associated with food and drink.

In 2014, a study was undertaken by Environmental Sustainability Technical Assistance (ESTA) ‘Understanding and reducing GHG emissions for food consumption and production: Greater Manchester’ which provided a range of options to reduce emissions within the city region. Figure 10 below shows the impact on emissions by eliminating avoidable food waste from the catering sector and households. The highest reduction of 13% was seen in eliminating avoidable food waste in households. If all avoidable household and catering food waste was reduced by 50%, this would see a reduction in emissions of 8%. The lowest reduction of 2% was found in eliminating avoidable food waste in the catering sector.

Mitigation measure (100% adoption)	Food consumption Greenhouse Gas emissions reduction
Eliminate avoidable food waste in catering sector	2%
Eliminate avoidable food waste in households	13%
Reduce all avoidable household and catering food waste by 50%	8%

Figure 10: Potential Greenhouse Gas emissions
Source: ESTA: Understanding and Reducing Greenhouse gas emissions from food consumption and production – Greater Manchester

As with the 5-year Environment Plan, Greater Manchester needs to base its ambitions, approaches and targets on the scale of action required within the SCATTER model to lower emissions, increase resource efficiency and reduce waste. The following sections take the priorities of the Plan in turn and are informed by this modelling work.

⁶ WRAP (2016) <http://data.parliament.uk/writtenevidence/committeeevidence.svc/evidencedocument/environment-food-and-rural-affairs-committee/food-waste/written/38003.html>



3. To embed Circular Economy business models in the City Region

3.1 Where we are now and where Greater Manchester needs to get to?

The products and goods we consume, and the waste produced after their use has a significant impact on our local environment and on CO₂ emissions produced inside and outside the city region. We need to increase action to reduce the energy and resources that goes into making goods and services along with ensuring that once goods are at the end of their life they can be reused or recycled, thus reducing raw materials used and creating a circular economy.

Greater Manchester is a vibrant city region with a range of diverse businesses, the most intensive users located at industrial sites such as Trafford Park. However, there is little data available to estimate how efficient businesses are in relation to the finite raw materials and energy consume.

TO MOVE GREATER MANCHESTER TO BECOMING A CIRCULAR CITY, THERE ARE 2 MAIN AREAS WE NEED TO FOCUS ON:

1. Industry:

- **Sustainable Product Design** – we need to make more sustainable products that move us away from a ‘throw away’ society and enable resources to be in use for as long as possible. To achieve this, we need to increase the reusability and recyclability of all components created.
- **Resource efficiency** – to maximise resource efficiency by moving away from linear business models to circular economy models, minimising the use of raw materials and reducing waste at source.
- **Business to Business Approach (B2B)** – to create a circular economy we need to engage with all organisations within the sector to understand all the component elements within that industry.

2. Policy Development & Innovation:

- **Sustainable Procurement** – we need to ensure that we are procuring the most environmentally sustainable products by embedding environment criteria and promoting circular economy procurement principles within procurement policy and throughout our decision-making processes.
- **Resource/Consumption mapping** – to fully understand the scale of change require we need to understand the resources we are using.
- **Innovation** – to ensure we can reduce the use of all raw materials innovation will be critical to finding solutions throughout the lifecycle of products and drive the development of a circular economy.



3.2 What action is needed over the next 5 years?

3.2.1 Industry

1. Sustainable Design

As part of building a thriving and sustainable city region, we need to promote economic and resource productivity whilst eliminating waste and increasing business opportunities through innovation. This, in turn will stimulate skills development and jobs.

We need to keep products and materials in use for longer to reduce pressure on the natural environment, as globally, we currently extract three times the number of natural resources than we did over 30 years ago. This figure is expected to more than double by 2060.

The current linear model of ‘make, use and dispose’ has both high environmental and financial costs, with products on the market that break prematurely and are not easily repairable

or recyclable, or the costs of repair are more than replacing with new products. Research shows that 80% of the damage done to our environment by excessive amounts of waste could be avoided if more sustainable decisions were made at the design and production stage.

With over 118,000 businesses in Greater Manchester (2020) the potential to stimulate change is substantial. To reduce the amount of materials wasted we need to work with industry to encourage more resource efficient business models by using more sustainable materials to manufacturing process that maximising resource productivity and energy efficiency. By moving to a circular city region our aim is to reduce the amount of raw materials within what we make, build and produce and reduce the amount of waste disposed.

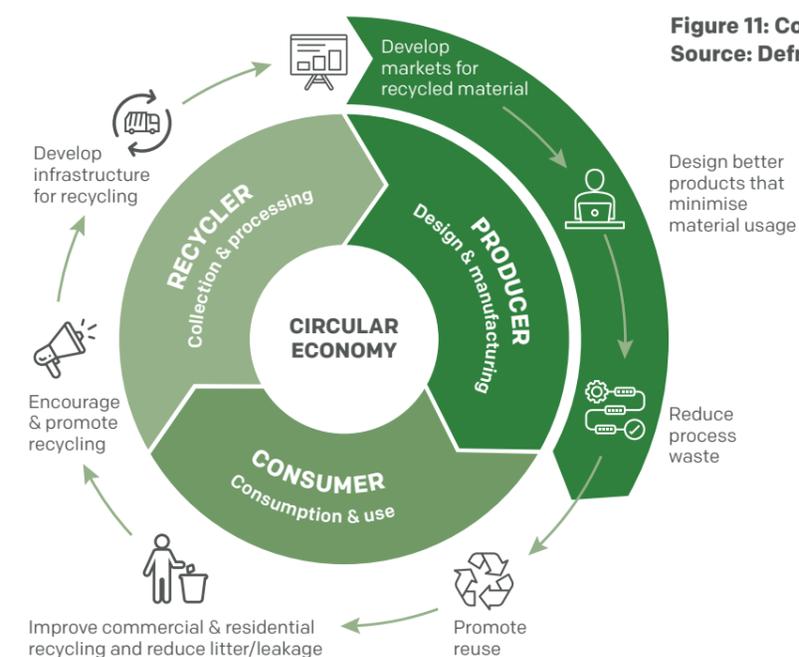


Figure 11: Components of a circular economy
Source: Defra

2. Resource Efficiency

To become resource efficient, we need to use the planet’s limited resources in a sustainable manner whilst minimising the impact on the environment. Transforming our consumption patterns will help drive resource efficiency and could generate direct net cost savings.

This means we need to move away from the standard linear business models to promoting the benefits of different, more circular business models that maximise resource efficiency such as reuse and repair, product-service systems, hire and leasing and incentivised return schemes. WRAP (Waste and Resources Action Programme) estimated that widespread roll-out

of such models across the UK economy could add up to £75 billion to gross value added (GVA) by 2030. Increasing resource efficiency will not only increase productivity, but also reduce carbon emissions and can enhance resource security.

Building on the work of the resource efficiency programme delivered by the Growth Company which works with small and medium sized businesses to provide help and advice on their current operations, explaining how they can become more efficient within their businesses to reduce energy and waste, will enable companies to access the right tools to make an impact to overall emissions generated in Greater Manchester.

3. Business to Business (B2B)

To become a circular city region we need to move away from linear business models (make – use – dispose) and embrace circular business models such as:

- **Circular supplies** – replacing scarce resources with fully renewable, recyclable or biodegradable resources
- **Resource recovery** – uses technological innovations and capabilities to recover and reuse outputs that eliminate material leakage and maximises economic value
- **Product life extension** – helps companies extend the lifecycle of their products and assets to ensure they remain economically useful
- **Sharing platforms** – is centred on the sharing of products and assets that have a low ownership or use rate
- **Product as a service** – customers use products through a lease or pay-for-use arrangement versus the conventional buy-to-own approach

By creating a B2B platform we can bring organisations together to promote the economic and environmental benefits of circular economy models and stimulate new ways of working within the conurbation and create resilience within supply chains. In turn, the platform will also look to stimulate change within sustainable product design and resource efficiency through understanding the full lifecycle of goods produced. The first B2B platform we are proposing to create is from the textile industry to explore the feasibility of creating a circular economy within the UK.

3.2.2 Policy Development and Innovation

1. Sustainable Procurement

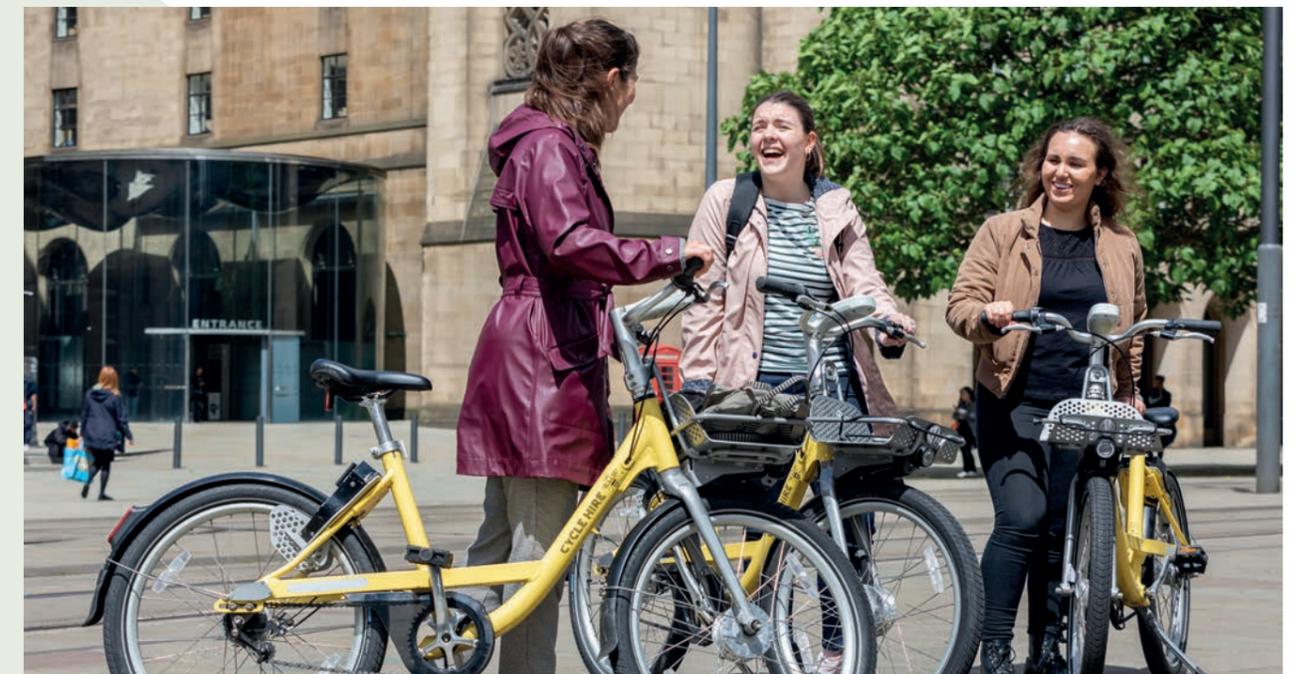
To meet the ambitions of Greater Manchester it is recognised that we need to initiate and drive forward environmental improvements and economic gains. To achieve this, we need to change how GM currently procure works, services and goods and move to a full life cycle approach to ensure that we reduce as much as possible the negative impacts on the environment. By taking an end-of-life cycle approach to future procurements it will not only enable the consideration of environmental impacts of processes within our direct control but also direct attention can be given to the raw materials used, supply chains, product use and finally the effects of disposal and possibilities for re-use or recycling.

It will also be beneficial to:

- Gather baseline environmental impact information;
- Stimulate sustainable product design;
- Provide greater understanding of supply chains and where best to influence the chain; and
- Develop resource strategies and optimise waste management.

Therefore, to maximise the impact of change, we plan to initially focus on embedding circular economy procurement principles and decarbonisation within public sector procurement and commissioning strategies.

To support embedding sustainable procurement within the public sector it is also recognised that decision making processes need to change so that an assessment is undertaken as to whether the decisions we made have a positive or negative impact on the environment. To achieve this step change educating decision makers, through carbon awareness programmes and decision-making processes, will be essential.



2. Resource/Consumption Mapping

To fully understand the raw materials being consumed within the city region we need to engage on a sector-by-sector basis, to build up a true picture. With commercial consumption and waste data not being publicly available, we will start with public sector bodies and then explore how we can build data available through initiatives such as race to zero, SCAP (Sustainable Clothing Action Plan) and Courtauld commitments and then expand further through our B2B platforms.

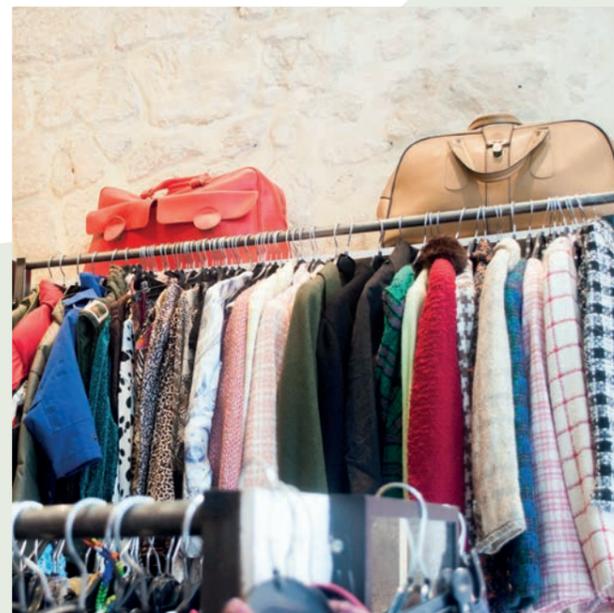
3. Innovation

Innovation is also key to creating a circular economy, studies and research will be critical to tackling concern waste streams such as plastics, construction materials and textiles, to ensure those that those materials can either be reused or recycled, with sustainable end markets.

• **Plastics** - Whilst there is a sustainable solution for plastic bottles, the same cannot be said for plastic tubs, pots and trays. Currently 9 of the 10 Districts within the city region do not collect these materials as there are very limited sustainable end markets for this commodity. With the mandatory collection of these materials being potentially introduced in 2023, innovation is critical to developing sustainable solutions and promoting circular economy rather than sending these materials to energy for waste facilities. Work has already commenced with industry and academia to look for sustainable solutions that can turn these low-grade products into a valued resource.

• **Textiles** - GMCA's waste compositional analysis undertaken in 2018/19 shows that, on average, 5% of the residual bin within GMCA household kerbside collected waste is textiles and this is replicated at our HWRC's, meaning that we are collecting over 21,000 tonnes (excludes Wigan). Of that collected, over 83% of the weight of items in this category were classified as linen, clothing and shoes, items that technically could be reused or recycled. Additionally, there are approximately 2,000 tonnes collected that is sent to a specialist processor for reuse/recycling which is generally sent overseas.

With most of this commodity currently being exported overseas we need to provide resilience within the UK should those end markets no longer be available. We plan to work with government, WRAP, academia and industry to explore the feasibility of creating a circular economy for textiles within the UK. This will include reviewing how sustainable production, resource efficiency, ecolabelling and technology can come together to provide greater sustainable resilience to reduce emissions within this sector.



Recommendations

1. To develop of a roadmap to Circular Economy (CE) including cross industry resource efficiency through design and production, commercial trading of materials, energy, sharing assets, logistics and expertise, to reduce the volume of raw materials used and eliminate waste.
2. To work with stakeholders to establish a collaborative forum that covers a range of Circular Economy (CE) aspects with leadership and delivery of key areas such as legislation and business to business (B2B).
3. GMCA to develop a Sustainable Procurement Strategy promoting circular economy procurement principles, the social value framework and commissioning strategies whilst supporting policy development and decision-making toolkits.
4. To undertake resource and consumption mapping to enable a sector approach to becoming a circular city region.
5. To continue to work with industry, academia, and other stakeholders to drive innovation to reduce raw material consumption, value resources and stimulate sustainable end markets.



4. Managing our waste as sustainably as possible

4.1 Where we are now and where Greater Manchester needs to get to?

Turning all the waste produced into valuable resources is critical to Greater Manchester becoming a circular city region, so we need to manage our waste as sustainably as possible. This means that we need to reduce the amount of waste produced (through prevention and reuse), recycle as much as possible whilst increasing the quality/value of materials so raw materials used is minimised. To continue to make progress, this priority is structured like priority 1 and will focus on the same 3 main elements:

1. Business Waste
2. Policy Development and Innovation
3. Household Waste



The challenges for managing our waste sustainably will focus on the following priorities:

1. Business Waste

- We need to fully understand municipal waste within the city region, meaning that we need not only to understand household waste, we need to understand business municipal waste data and behaviours to reduce the level of waste arisings and increase recycling.

2. Policy Development and Innovation

- England’s Resource and Waste Strategy - With the new Environment Act recently passed, we need to understand the implications of the Act, and make informed decisions, based on environment and economic impacts of new service provisions and waste management requirements, which will shape the next Greater Manchester Waste Strategy.

- Policy Development - To make waste management effective we need to ensure that the correct infrastructure is in place to make reducing, reusing and recycling as easy as we possibly can.

- Innovation - We need to maximise recycling by using innovation to create sustainable solutions and end markets to reduce the amount of raw materials required in product design.

3. Household Waste

- To meet our ambition to become a carbon neutral city region, we need to reduce waste arisings and maximise recycling, both in terms of quantity and quality. Waste generated by households and how that is processed is important to both moving to a more sustainable lifestyle and becoming a circular economy city region.

4.1.1 Reducing Business Waste through Prevention, Reuse and Recycling

With our aspirations to become a circular city and England’s Resources and Waste Strategy targets, now within the Environment Act, focusing on municipal waste and not just household waste, it is important that we encourage businesses to reduce, reuse and recycle as much as they possibly can.

As highlighted in Priority 1, data at a Greater Manchester level is very limited and whilst Defra (Department for Environment, Food and Rural Affairs) are currently consulting on the introduction of mandatory digital waste tracking, this potentially will not go live until 2024. Therefore, we need to work with sectors to fully understand the resources they are consuming and the waste they are producing and how they are disposing of that waste.

1. Business Improvement Districts (BIDs) and Local Levers – we plan to explore with GM BIDs how additional tax could be used to provide leverage in establishing competitive waste contracts and upcycling schemes to establish a working circular economy within the conurbation. Using local levers, such as GM’s Social Value Framework within procurement to drive change to reduce waste and recyclability of products procured. We also plan to investigate the feasibility of a material swap shop/surplus supply platform to reduce waste of materials.

2. Waste Data/Material Flow mapping – with no digital waste tracking available prior to 2024, we need to understand consumption and waste within the commercial sector to reduce waste, explore circular economy possibilities and ensure that waste is managed as sustainably as possible within the conurbation.



3. Business to Business (B2B) Platform – to stimulate change and move businesses away from linear business models to more circular businesses we plan, in partnership with Manchester Metropolitan University (MMU), to develop a B2B platform to bring sectors together, to identify opportunities and strengthen resilience and circularity within their supply chains.

4. Community Fund – Using the Community Fund within the Waste Management Contract with Suez, we can support the Voluntary Community and Social Enterprise (VCSE) sector to stimulate and deliver in local communities.



4.1.2 Policy Development and Innovation

1. Explore the potential impact of England's Resources and Waste Strategy

England's Resources and Waste Strategy sets out five strategic ambitions, which align broadly with the Combined Authority's:

- a.** To work towards all plastic packaging placed on the market being recyclable, reusable or compostable by 2025;
- b.** To work towards eliminating food waste to landfill by 2030;
- c.** To eliminate avoidable plastic waste over the lifetime of the 25-year Environment Plan;
- d.** To double resource productivity by 2050; and
- e.** To eliminate avoidable waste of all kinds by 2050.

In addition, there are specific targets regarding:

- a.** Introduction of a deposit return scheme by 2023;
- b.** Legislation for mandatory separate food waste collections by 2023;
- c.** 75% recycling rate of packaging by 2030;
- d.** 65% recycling rate for municipal solid waste by 2035; and
- e.** Municipal waste to landfill 10% or less by 2035.

With the Environment Act now being passed and several consultations being published, the delivery of England's Resource and Waste Strategy is starting to become clearer but still not certain. Government, so far, have indicated direction of travel of each of the following areas:

• Extended Producer Responsibility (EPR)

The UK's EPR currently covers four waste streams: packaging, end of life vehicles (ELV), batteries and accumulators and waste electrical and electronic equipment (WEEE). Packaging EPR regulations have been consulted upon, which look to substantially change existing regulations, placing the full net costs of managing their products at the end of life, to encourage design of products to be more reusable and recyclable. The use of EPR will also be explored within the textile industry.

• Plastic Packaging Tax

To encourage manufacturers to produce more sustainable packaging and create greater demand for recycled material, from April 2022, a £200 per tonne tax was introduced to all manufacturers who produce more than 10,000 tonnes of plastic packaging with less than 30% recycled content. With this now in place, industry has already made steps to move away from plastic packaging on recyclable alternatives such as paper, card and tetra-pack packaging.

• Recovering resources and managing waste

The Strategy confirms government's commitment to adopt EU's Circular Economy targets for recycling and landfill diversion for municipal waste; 65% recycling and no more than 10% to landfill by 2035. To achieve these targets, several consultations have taken place on:

- a.** Consistent collection regimes with a core set of mandatory materials to be collected, including weekly food waste collections;
- b.** Introduction of a deposit return scheme;
- c.** Mandatory recycling for businesses and greater reporting and data collection; and
- d.** Introduction of mandatory digital waste tracking.

Whilst England's Resources and Waste Strategy and Environment Act are welcomed by the Combined Authority the requirements and potential financial burden of implementing some of the ambitions of the strategy could be costly. To ensure that the true costs to

Greater Manchester are known, several cost and environmental assessments will be undertaken. The first to be undertaken is the potential impact of implementing separate weekly food and garden waste collection services, as currently food and garden waste is collected together throughout Greater Manchester along with scenario waste modelling of potential collection and disposal services.

The outcome of these consultations and how they are set out in legislation will enable Greater Manchester's Household Waste Strategy to be produced in the near future.

2. Policy Development

• Greater Manchester's Waste Strategy –

Upon certainty of the requirements of the Environment Act, secondary legislation and statutory guidance, GMCA will commence consultation and produce Greater Manchester's Waste Strategy. The Strategy will set out the GMCA's ambitions to reduce the carbon footprint of its waste management services.

• **Planning** – with population set to rise in Greater Manchester by 13%, new housing will be required. We will work with local authorities to ensure that appropriate recycling facilities are stipulated to meet the future requirements as set out in the Greater Manchester's Waste Strategy.



3. Encourage and embrace innovation, exploring new ways of solving existing challenges

• To meet the ambitions of this plan and England’s Resources and Waste Strategy, innovation will be required to ensure that the waste hierarchy is at the forefront of our waste management services. Innovation within waste management is also key to delivering the ambitions of the SCP Plan; if we are asking businesses and households to recycle as much as possible, we need to work with the waste management sector, academia and producers to ensure we have sustainable end markets, thus reducing the level of raw materials required.

To coordinate with the priorities set out within Priority 1: Moving to a Circular Economy, we will work with stakeholders, through a sector approach, focusing on plastic and textile waste streams.

4.1.3 Consumer/Households: Reducing Household Waste Generation through Prevention, Reuse and Recycling

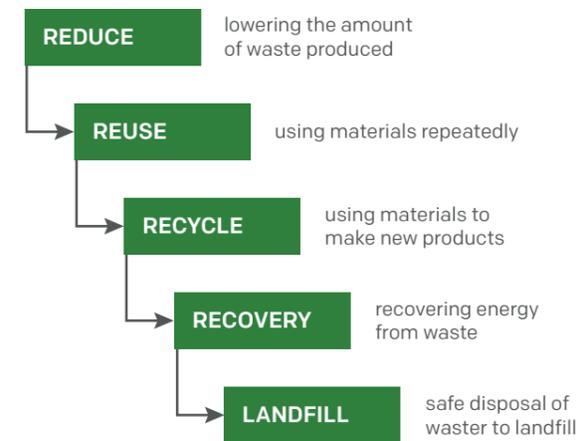
The Combined Authority is England’s largest Waste Disposal Authority dealing with around 1.1 million tonnes of waste produced each year from over 1.2m households and resident population of over 2.8 million (GMCA 2022). This waste comes from Council’s kerbside collection services and 20 Household Waste Recycling Centres (HWRCs). We handle around 4% of England’s waste. Wigan Council whilst part of the Combined Authority is a unitary council and deals with the collection and disposal of its own municipal household waste and is responsible for its own infrastructure.

To process Greater Manchester’s municipal household waste, there are the following facilities to deliver a consistent approach to collection and disposal of waste through the 4-bin waste system (figure 12) set out below.

The implementation of this system has seen recycling increase from 27.45% in 2008/09 to 48% in 2020/21 and enabled the introduction of new collections such as reducing residual waste capacity. This increased recycling by actively promoting the waste hierarchy (see below), meaning that we will do everything possible to divert waste from landfill.

The Combined Authority is committed to delivering a high quality, environmentally sustainable, cost-effective service that manages residents’ household waste. To achieve this, it is extremely important that residents continue to reduce waste generated (reuse and waste prevention) and recycle accurately at the kerbside. Figure 14 below shows that GMCA (excluding Wigan) whilst there has been good progress over the last five years in diverting waste from landfill (80% to 99%), recycling has remained static since 2016/17 to 2020/21 at 47- 48%. Figures 14 and 15 show performance for GMCA and Wigan over the last 22 months.

MOST FAVOURED OPTION



LEAST FAVOURED OPTION

Figure 13: The Waste Hierarchy
Source: WRAP

GREATER MANCHESTER HOUSEHOLD RECYCLING RATE AND WASTE DIVERTED FROM LANDFILL (DATA EXCLUDES WIGAN)

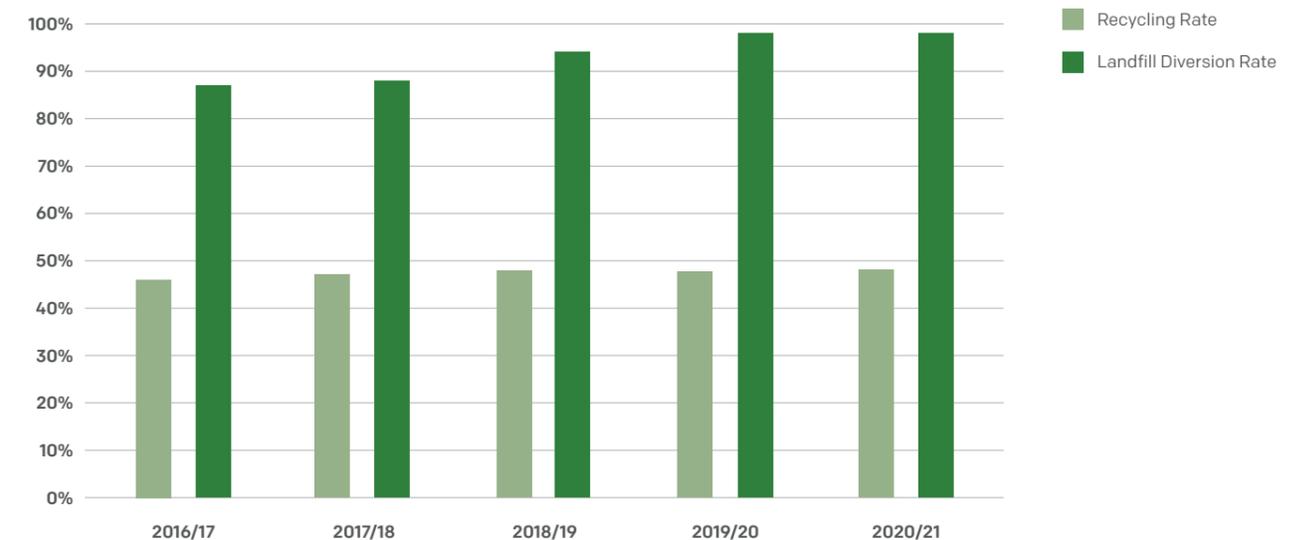


Figure 14: GMCA Recycling rates and waste diverted from landfill 2016/17-2020/21
Source: Waste Data Flow



Figure 12: Four Bin System in Greater Manchester
Source: GMCA, Waste Strategy

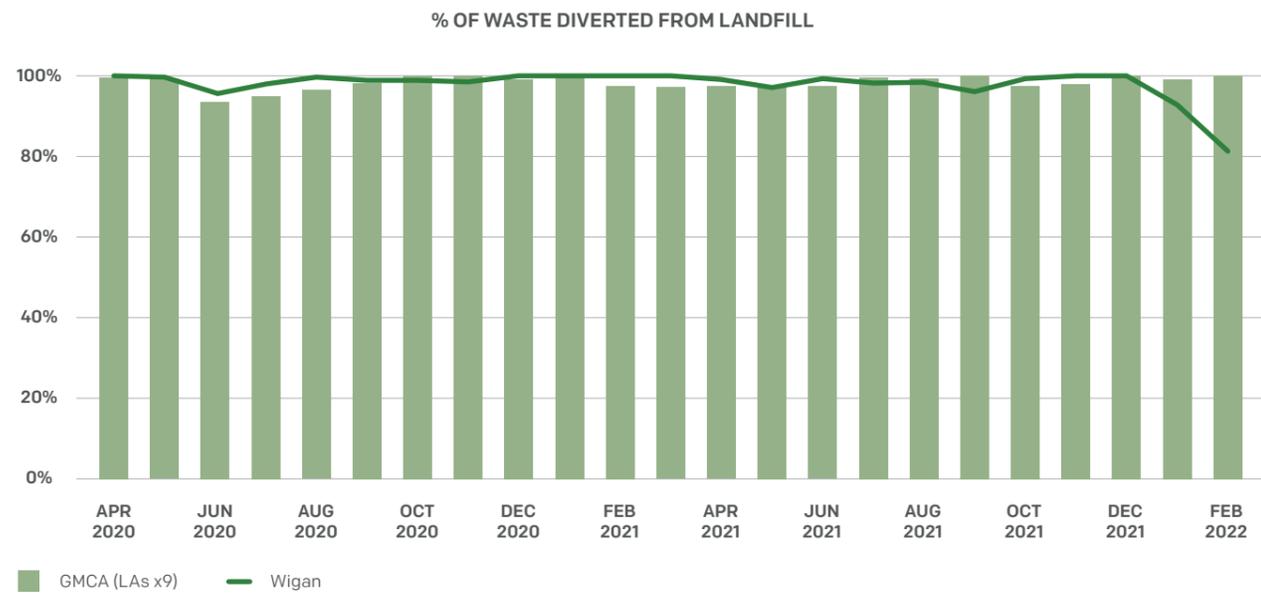


Figure 15: GMCA and Wigan waste diverted from landfill April 2020 February 2022
Source: Waste Data Flow

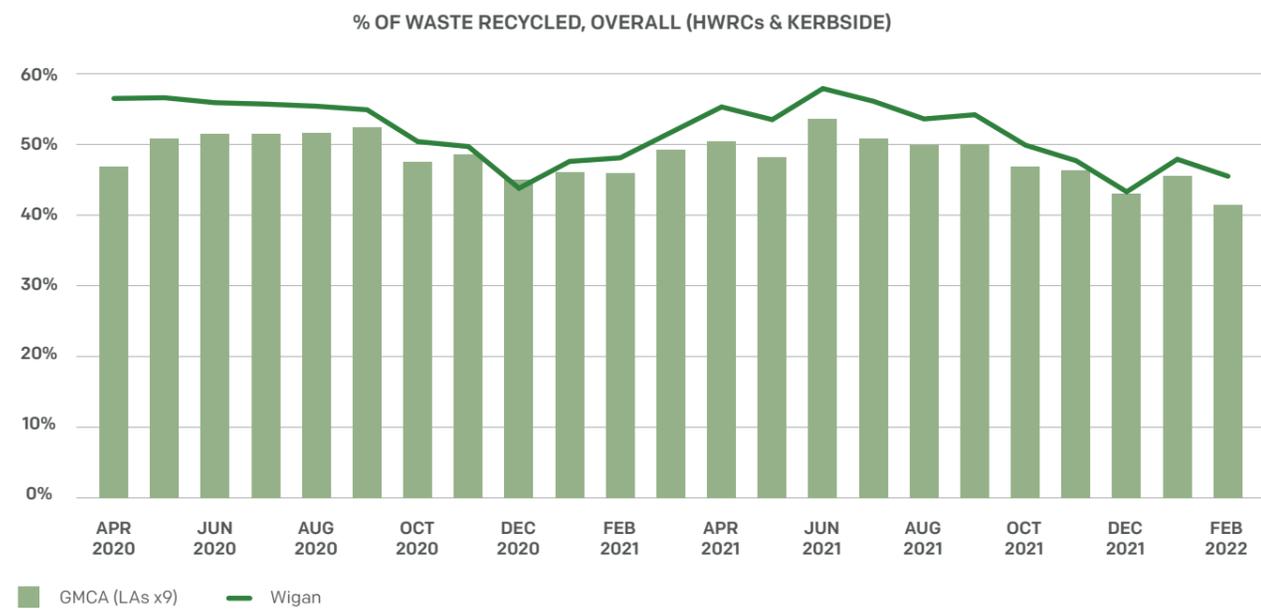
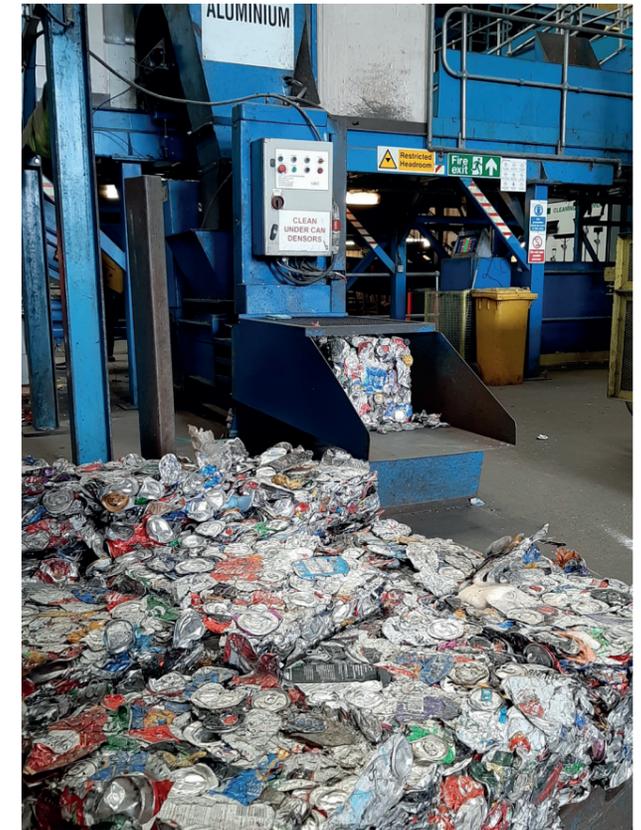


Figure 16: GMCA and Wigan Recycling rates April 2020 - February 2022
Source: Waste Data Flow

GMCA's waste composition analysis (2018) demonstrated that over 40% of the residual waste stream contains recyclable materials, meaning that there is still a tremendous amount of work needed to drive as many recyclables as possible out of that waste stream.

Research undertaken by WRAP explains that recycling has generally become the 'social norm' since their initial research in 2008. This means that the emphasis has switched from 'recycle more things more often' to a new paradigm centred on 'effective recycling for quality recycle' as removing contamination within recycling waste streams will increase the reuse/recyclability of the materials collected.

Good communication is therefore vital to ensuring that residents know what they are doing and making sure they understand what those barriers are.



Recommendations

1. To maximise the reduction of waste and reduction of emissions through policy development initiatives.
2. The GMCA to work with local collection authorities to evaluate and assess the environmental and financial implications of implementing the requirements of the new Environmental Act, secondary legislation and statutory guidelines.
3. Partners across Greater Manchester should collaborate and carry out further research, pilots to drive innovation and explore new ways of working to solve existing challenges.
4. To identify opportunities to develop of GM wide recycling collection and disposal solution for businesses within Greater Manchester.
5. GMCA, local authorities, businesses and waste industry continue to work minimising waste and improving the quality and quantity of municipal waste recycled.

5. Reduce Avoidable Food Waste

5.1 Where does Greater Manchester need to get to?

To reduce emissions, we need to reduce the overall amount of food waste generated, whilst ensuring we maximise redistribution to ensure that those who are living in food poverty can access such services. We also need to increase home growing and composting and stimulate local markets. To do this we need a full system approach.

Within this priority, we aim to focus on 3 key areas:

1. Policy Development and Innovation –

we need to ensure that citizens of Greater Manchester have access to affordable, locally sourced food.

2. Developing a Sustainable Food System

– to ensure that we reduce food waste in the system we will look to work with Good Food GM, to create a Good Food Vision and develop a sustainable food system for Greater Manchester.

3. Customers/Households –

with over 70% of food waste still being created by households we need to reduce the amount of food being wasted.

5.2 Where is Greater Manchester now and what Action is needed over the next 5 years?

5.2.1 Policy Development and Innovation

1. Sustainable Food Procurement – through reviewing and adapting public sector procurement we will reduce emissions relating to food and consider how social value in public sector procurement can promote the Good Food Vision for GM.

2. Reduction of Food Waste through Redistribution –

With the current ‘cost of living’ crisis facing the country, it is of the utmost importance that no food is wasted within the food system. We will explore whether developing a redistribution logistical tool can maximise the use of surplus food in the system to reduce avoidable food waste and GHG emissions.

3. Food labelling – To enable citizens to make informed choices on the food they purchase we need to make it as easy as possible to move to a sustainable lifestyle. One potential area, we will continue to discuss with Government is the addition of adding the carbon footprint, by a RAG (Red, Amber, Green) on food labelling.

5.2.2 Developing a Sustainable Food System

At the Green Summit in 2018, Good Food GM was launched to set a vision on what a sustainable food system would look like for Greater Manchester. Additionally, the Mayor of Greater Manchester signed the Milan Urban Food Pact committing to the voluntary framework to take action in 6 key categories: Governance, sustainable diets and nutrition, social and economic equity, food production, food supply and distribution.

Based on that commitment, a Good Food GM Board has been established and through partnership working, a sustainable food vision has been finalised and was launched at the Green Summit 2021. The vision has been based on the following general principles, that food should be:

- Ecologically responsible
- Fair and accessible
- Local (where possible)
- Healthy
- No waste

To help disseminate the vision and create a ‘good food’ movement, a toolkit will be developed to sit alongside the vision to showcase the amount of work that is happening across Greater Manchester.

Alongside the toolkit, a number of working groups have been created to drive change in the food system. These range from tackling food poverty through the Greater Manchester Food Security Action Network (GMFSAN), to promoting sustainable diets and nutrition, resilience with local supply chains and eradicating food waste from the food system.

5.2.3 Reduce food waste within households

In the UK alone, an estimated 10 million tonnes of food and drink are wasted annually after the farm gate, with approximately £20 billion, of that 7.1 million tonnes (£15 billion) is waste from households. A GM wide (ex. Wigan) waste composition analysis was undertaken in 2018/19 which confirmed that food waste is currently the largest waste stream that remains within the residual bin, with over 28% (66.5kg/hh/yr). Additionally, of the 34% of food waste within the collected organics (food and garden) stream (58.9kg/hh/yr), a staggering 58% of that is avoidable food waste.⁷

	Kg/hh/yr
Avoidable food waste – unused fully packaged	0.6
Avoidable food waste – part used in packaging	1.7
Avoidable food waste – loose	31.8
Potentially avoidable food waste ⁸	4.4
Unavoidable food waste	20.5
Total Food Waste	59
% Avoidable food waste	57.9
% Potentially Avoidable	7.4

Figure 17: Food waste placed into the organic waste collected within GM, based on kg/hh/yr.
Source: GM Waste Composition Analysis 2019



⁷ Avoidable food waste – food thrown away that was, at some point, prior to disposal, edible (eg slice of bread, apples, meat). This includes unused fully packaged food waste; part used food waste in packaging and loose food waste.

⁸ Potentially avoidable – food that some people eat and others do not (eg bread crusts), or that be eaten when a food is prepared in one way but not in another (eg potato and vegetable peelings)

Based on capture rate data for GM, it's estimated that currently 125.4kg/hh/yr of recyclable food is disposed of at the kerbside of which 59kg/hh/yr is correctly recycled meaning that 66.5kg/hh/yr of potentially recyclable food is not being captured in the organic recycling stream. The level of food waste within households needs to be reduced, firstly through waste minimisation initiatives and households understanding why so much food is being generated and then secondly, we need to promote getting food waste into the recycling waste stream.

WRAP's research explores the barriers specifically associated with food waste recycling. These include:

- a.** Residents do not always understand what is done with food waste, why it is worth recycling it, and what types of food waste are wanted in the collection system. For example whilst plate scrapings and food preparation/offcuts are commonly understood to be food waste, there is a much greater barrier in the public recognising unopened (out of date) packaged or half eaten food products as food waste; and
- b.** People also do not recognise non-edible items such as coffee grounds and eggshell as food waste.

As well as known knowledge barriers, misconceptions and attitudinal barriers have also been identified that deter participation in food waste collection services. These include:

- a.** Concerns about smells and hygiene, especially if caddies are stored near the food preparation area;
- b.** Concerns about vermin, flies and cross-contamination of fresh food; and
- c.** People finding the contents of the food waste caddy unpleasant.

To enable greater participation in food waste collection services, clear communications need to be designed to make it clear what can be recycled as well as myth busting residents' concerns relating to food hygiene.

Recommendations

- 1.** To maximise the reduction of food waste and GHG emissions through policy development initiatives.
- 2.** Partners across Greater Manchester should collaborate to create a delivery model to enable Greater Manchester to become a sustainable food city region.
- 3.** Working with key partners a programme of Greater Manchester wide campaigns focusing on the co-benefits of reducing and then recycling food waste.



6. Empower residents to make more sustainable lifestyle choices

6.1 Where does Greater Manchester need to get to?

To enable the city region to become carbon neutral it is recognised that, as citizens of Greater Manchester, we all have a role to play to reduce our personal carbon footprint by making more sustainable lifestyle choices.

6.2 Where is Greater Manchester now and what Action is needed over the next 5 years?

6.2.1 Making more sustainable lifestyle choices

What do we mean by sustainable lifestyles? Sustainability means meeting our own needs without compromising the ability of future generations to meet theirs, so living more sustainably looks to reduce waste, reduce our carbon footprint and choose products that are environmentally and socially responsible. It is recognising that no one can do everything, but everyone can do something; small changes can make a difference.

Our households directly contributing to around 20% of environmental pressures, mainly from the fuel we consume in our vehicles and homes. In addition, 55%⁹ of total national consumption ends up in our households and private households' consumption, meaning that climate change is impacted by the food we eat, the things we buy and throw away, how we travel and how we heat and power our homes. To enable the city region to become carbon neutral we need residents to make more sustainable lifestyles and make a conscious effort to reduce their own carbon footprint.

6.2.2 Showcasing the achievements within Greater Manchester and how citizens and businesses can become involved in the City Region tackling Climate Change and becoming Carbon Neutral.

To showcase the progress Greater Manchester is making to become carbon neutral it is recommended that the new website continues to be developed to provide information on how to become more sustainable as well as demonstrate the vast amount of work which is happening within the city region. Alongside the website, a communications plan will be developed to promote the benefits of joining Greater Manchester in its ambition to become carbon neutral by 2038.



6.2.3 To embed a programme of Public Sector Climate change awareness initiatives, promoting sustainable working and lifestyles within day to day lives

As an organisation, and as demonstrated within the new Greater Manchester Strategy, our environment touches everybody's day to day lives, both in and out of work.

To ensure we are raising awareness on the impact of the decisions we make, GMCA plans to embed, starting with compulsory climate change awareness training, a suite of initiatives which enable colleagues to make informed decisions to enable the conurbation to actively move to more sustainable working practices and lifestyles. By creating these initiatives initially for GMCA, the next stage would then be to roll the programme out to other local authorities.

6.2.4 To work with communities to develop and promote SCP initiatives which also improve social, environmental and economic well-being

It is recognised within the 5-year Environment Plan that the Combined Authority and public sector bodies cannot combat climate change alone, we need everyone to play their part too. Engagement with local communities plays an important role to help create change. By identifying funding sources and working with our stakeholders, we aim to engage with local communities on local initiatives to improve our environment, whilst delivering social and economic well-being.

Recommendations

1. GMCA continue to develop the Green Cities website to demonstrate and showcase the progress the city region is making in becoming carbon neutral by 2038. The website will be supported by a Communications Plan developed with stakeholders to promote the benefits of moving to a sustainable lifestyle.
2. GMCA to create an internal climate change impact awareness training, which potentially could be rolled out to other public sector bodies.
3. To identify funding streams with partners to work with communities to develop and promote SCP initiatives which also improve social, environmental and economic well-being.

⁹ Environmental pressures from European consumption and production — European Environment Agency (europa.eu)

7. Bringing it together

7.1 Where does Greater Manchester need to get to?

7.1.1 Mission-oriented approach

The 5-year Environment Plan for Greater Manchester sets out the scale of the challenge in achieving the CO2 emissions reductions required to meet its international climate change obligations, of which Sustainable Consumption and Production will be an integral part.

To deliver its environmental vision and aims the plan sets out and to close the gap between what is needed and where Greater Manchester is now.

The mission-oriented approach will work with all stakeholders, taking new and different approaches in the following areas:

- Supporting innovation
- Finance and funding
- Building partnerships between the public, private and voluntary, community and social enterprise organisations
- Showing leadership
- Engaging and educating residents, communities and businesses
- Upskilling its workforce

In this report, these themes are key to tackling the challenges associated with sustainable consumption and production and have been covered in various sections and recommendations.

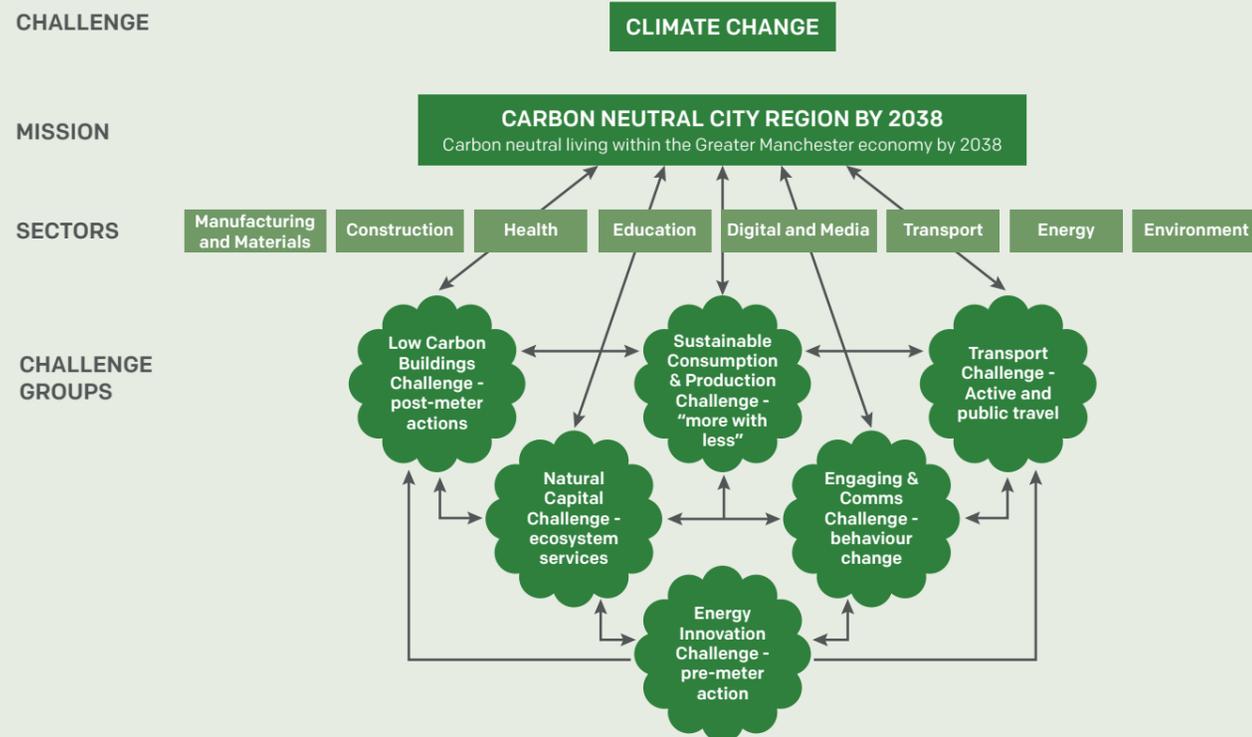


Figure 18: The Mission Oriented Approach
 Source: UCL: Greater Manchester's Mission Based Approach to Climate Change

7.2 Where is Greater Manchester now and what action is needed?

7.2.1 The roles of different organisations within Greater Manchester

No single organisation in Greater Manchester can tackle the priorities and implement the recommendations in this report alone. Doing so requires joint working across different types of organisations and sectors, which should build upon the strength of existing partnerships in Greater Manchester.

These have been developed strategically, for example in the lead up to all the Green Summits and in the development of the 5-year Environment Plan and enables each sector to bring different abilities and expertise – these are set out opposite:

- **GMCA and Local Authorities** – providing the right policy framework, including setting ambition and direction, providing evidence to inform action and implementing policy where levers are held locally (e.g. local levers such as taxation, planning policy); convening key stakeholders and engaging more widely across Greater Manchester.
- **Wider public sector** – leading by example in areas where organisations (health, national government etc) have direct operation and financial control (e.g. assets, procurement).
- **Community, voluntary and campaign sector groups** – building greater public understanding and awareness of SCP there is the potential to participate in more community-based social marketing activity.
- **Businesses** – carrying out innovative research and development, developing new supply chains and business diversification as well as raising awareness.

7.2.2 Building on existing partnerships to work together in new ways

GMCA and key partners need to build on this foundation and move to focus on delivery against the priorities set out in the 5-year Environment Plan and within this SCP Plan. This should be done in a way that reflects the ambition for a mission-oriented approach and links to other Greater Manchester strategies.

Since the launch of the 5-year Environment Plan and its mission-oriented approach, several Challenge Groups have been established to help the delivery of the Plan. It is recommended that the SCP (Aims 1 and 2) and Communications & Behavioural Change (Aims 3 and 4) Challenge Groups should continue to be responsible for driving progress towards the ambitions set out in the SCP Plan and the 5-year Environment Plan.

It is also recommended that the Challenge Groups and Task and Finish Groups beneath it continue to be:

- **Action-focussed** – focussed on implementation and delivery, driving forward the recommendations in this report rather than focussing on or discussing issues or barriers.
- **Agile** – should not necessarily be long-standing and should be able to change their remit and focus to ensure the most significant issues are prioritised given limited resources.
- **Cross-sectoral** – approaching issues in a way that allows for them to be tackled bottom up most effectively rather than on traditional top-down sectoral lines.

7.3 Next steps

- Working across organisations in the way set out above offers the potential for stakeholders to come together in new ways to deliver on the ambitions set out in this Plan and the 5-year Environment Plan for Greater Manchester. Both the challenge groups have been established along with various task and finish groups to drive action in this area forward.
- Following publication of this Plan, an annual implementation plan will be developed and agreed with tane steps to delivery for each of the individual recommendations as set out in the SCP Plan above.



Recommendations

1. To continue to work together with local authorities, partners and stakeholders to effectively implement the SCP Plan as part of the 5 Year Environment Plan's mission-oriented approach to tackling Greater Manchester's environmental challenges.



GREATER MANCHESTER

DOING THINGS DIFFERENTLY FOR THE ENVIRONMENT

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