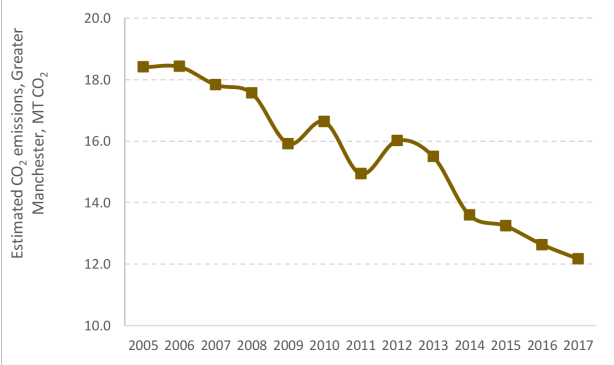
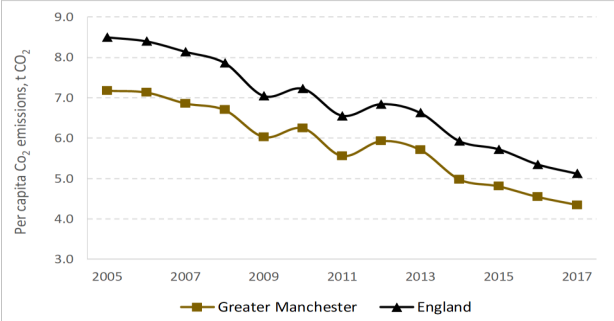


Carbon emissions (1) – total emissions



Local Authority CO₂ emissions estimates 2005-2017 (million tonnes CO₂) – full dataset, June 2019
Source: UK local authority and regional carbon dioxide emissions national statistics: 2005-2017
<https://www.gov.uk/government/collections/uk-local-authority-and-regional-carbon-dioxide-emissions-national-statistics>

Carbon emissions (2) – per capita emissions



Local Authority CO₂ emissions estimates 2005-2017 (tonnes CO₂) – full dataset, June 2019
Source: UK local authority and regional carbon dioxide emissions national statistics: 2005-2017
<https://www.gov.uk/government/collections/uk-local-authority-and-regional-carbon-dioxide-emissions-national-statistics>

The next 12 months...

BUILDING

Developing **zero carbon standards and pathways** for new buildings. Carrying out a total housing stock condition survey across GM looking for energy efficiency opportunities.

Designing and seeking to deliver **GM Retrofit Accelerator** capable of supporting 60K+ low carbon home upgrades (retrofit) per annum.

Decarbonising the GM public estate, identifying high energy use buildings and prioritising a lists of projects. Work will continue in firming up these projects, with delivery plans to be rolled out over the next 1- 2 years.

ENERGY

Producing **local area energy plans** to inform future energy supply and demand across all 10 GM Local Authorities, from network to post code building levels. Promoting the use of derelict, underused land for solar PV and supporting large PV projects via ERDF and Go Neutral.

Convening and collaborating with multiple organisation via the Mission based approach Challenge groups to develop an **Energy Transition Region** to support and drive low carbon innovation and a **Hydrogen Strategy** to help meet the regions aspiration of carbon neutrality by 2038.

Reviewing potential to repeat the Solar Together Greater Manchester, domestic solar PV and battery offer.

SUSTAINABLE CONSUMPTION AND PRODUCTION

Develop a sectoral approach, to explore **circular economy opportunities** within the city-region

Create a **circular economy investment calculator** to inform decision making in procurement and launch a pilot project that embeds carbon reduction into the supply chain through procurement and contract management.

Suez to introduce reuse shops at Household Waste Recycling Centres.

Develop a common approach for the reduction of single-use plastic and plastic packaging across the GM public sector. Continue to expand the **'PlasticFreeGM'** network with support and advice

Develop and adopt a **sustainable food strategy** for GM and launch a campaign to reduce food waste within GM households.

Support for Manchester Metropolitan University's **Transforms-3D** project to provide a circular economy approach to non-recycled, low value municipal plastic waste by transforming it into 3D printable feedstock.

Be part of our journey to delivery carbon neutrality for 2038...#GMGreencity



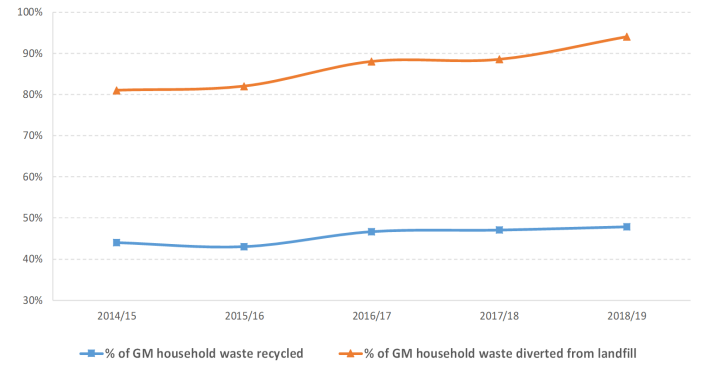
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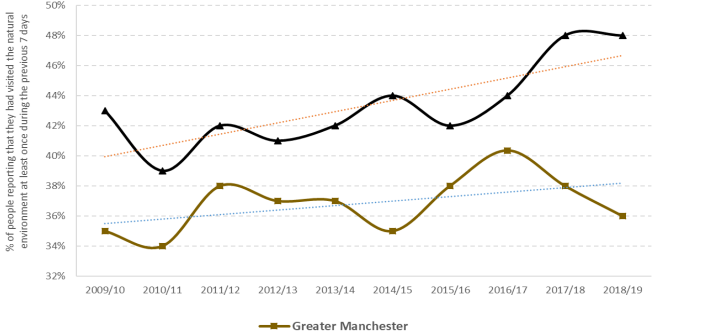
MAY 2020

Waste recycled and diverted



Note: data excludes Wigan
Source: Greater Manchester Waste Disposal Authority

Visits to the natural environment



The proportion of GM residents reporting that they had visited the natural environment at least once during the previous seven days
Source: Monitor of Engagement with the Natural Environment, Natural England

NATURAL ENVIRONMENT

Natural environment engagement campaign to be launched in the Summer to inspire and motivate those across Greater Manchester, showing that everyone can make a small difference. Extending Lancashire Wildlife Trust **'My Wild Garden'** campaign across GM.

Biodiversity Net Gain Action Plan being used to inform a funding bid to support delivery of Biodiversity Net Gain across 10 planning authorities over the next two years.

Northern Roots is creating the UK's largest urban farm and eco-park on Snipe Clough, 160 acres of stunning green space in the heart of Oldham. The Royal Horticultural Society to open its fifth garden and first new garden for nearly two decades, **RHS Garden Bridgewater**, from Thursday 30 July 2020.

Financial Advisors Environmental Finance commissioned to design and implement a GM Environment Fund. First of its kind for the sector and will act as a pioneer for scaling up the Natural Capital investment market both within and outside of Greater Manchester.

Greater Manchester to Invest Over £1.5million in New Tree Planting as part of Defra's Urban Tree Challenge Fund with match funding from the local authorities. Over 2,500 trees to be planted across the city region.

Natural England leading a **Peatland Restoration Pilot in Greater Manchester**. One of 5 Defra funded Peat Pilots which will help us to understand how peatland restoration can contribute to GM's carbon reduction

GM to commission a study looking at **the sources of micro plastic contamination** of GM's rivers in partnership with United Utilities and the Environment Agency.

TRANSPORT

TfGM to develop and deliver 82 schemes as part of the **'Bee Network' safe cycling network**.

Expansion of the **rapid transit network** with Metrolink Trafford Park line; 27 new trams to be delivered.

Expansion of the **electric vehicle charging point network** with 25 new rapid chargers and proposals for 300 more Government funded sites across GM

AND FINALLY...

November was to see the UK co-host with Italy, this year's **COP26** in Glasgow, the conference has now been postponed until 2021, the date is yet to be confirmed.

Environment Report 2019-2020

GREATER MANCHESTER

DOING THINGS DIFFERENTLY FOR THE ENVIRONMENT

The year of the Climate Emergency...

From being appointed Green City portfolio lead after the May 2019 elections, it has felt like a monumental year when the environment has become central to our core business. Every day, we feel an increasing sense of urgency and responsibility to take action to address the climate and biodiversity emergency we are now facing. We have seen a dramatic rise of young people and citizens taking to the streets with impassioned protests, demanding that they are heard and that we all take action now.

GMCA is playing its part to reduce the region's carbon emissions. At last year's Green Summit, we launched our Five Year Environment Plan for Greater Manchester, a progressive science-based plan of challenging actions, being delivered across all themes and engaging all sectors of influence across the region. Our radical Plan highlights

not only the environmental necessity, but the economic opportunities for everyone in acting now. This plan has since gained global recognition, being rated 'A' by the Carbon Disclosure Project for leadership on sustainability, one of only 105 cities globally.

Climate change is the biggest environmental threat to our city region. In July, GMCA declared a climate emergency alongside our ten local authorities, we believe that the impacts of a global temperature rise above 1.5°C are so severe that governments at all levels must work together and make this their top priority.

We all need to take urgent and radical action now to put us on the path to 2038, please join us on our journey.

Councillor Andrew Western, Leader of Trafford Council, Green City Region Lead



Green Summit 2019

Over 1,700 people, including over 300 young people, were welcomed into The Lowry, Salford Quays on Monday 25 March, 2019 for the second Green Summit and the launch of the city-region's pathway to becoming carbon neutral.

The day got underway in the main auditorium with an emotive and rousing speech by Member of Bury Youth Parliament and Climate Strike 4 Youth spokesperson, Emma Greenwood, and her fellow climate change strikers. The young people involved with the summit set the agenda for the day, and their passionate statements set the impetus for action and proved to be the highlight of the event for many attendees.

Speakers at the summit included video addresses by His Royal Highness, the Prince of Wales and BBC nature presenter Chris Packham and Manchester author and broadcaster, Lemn Sissay captivated the audience with a powerful address that captured global as well as local issues, and described how we could all try to eliminate the 'carbon gap'.

The main theatre saw a full programme of discussion and keynote speakers, including Chair of the Environment Agency Emma Howard Boyd, Greater Manchester Cycling and Walking Commissioner, Chris Boardman and Mark 'Bez' Berry and actor Peter Gunn. Twenty-seven speakers in total delivered inspiring presentations supporting the region's challenging ambition.

The event also played host to three very separate events which ran concurrently with live action on the main auditorium stage. These included:

- Innovation Zone, with discussion aimed at businesses, policy makers and academia within the region to nurture innovation within the sector.

- The Public Sector Zone tackled the Five-Year Environment Plan's distinct themes through a discussion and workshop session, focusing particularly on how the public sector can disseminate, engage and action their plans within their sectors.

- The Hexagon Zone engaged with a younger audience and citizens eager to learn about how to become a 'greener citizen'.

This year's marketplace hosted 53 exhibitors around the venue including outside space, all offering interactive displays showcasing dynamic projects and products, which support a sustainable future.

Greater Manchester Goes Green - Green Summit 2020, this event is being co-created with GM Youth Combined Authority. The date and format of the event will be confirmed soon.



Sustainability successes in Greater Manchester, the highlights from 2019...

Our energy supply

- Policy - launched a **Smart Energy Plan** which sets out the regions challenges and activity for the next 5 years

- Delivery - launched a **solar PV offer** to GM residents and installing **low carbon measures** at +500 homes, 5000 panels installed (by April / May) as part of the Solar Together campaign, 1.6 MW, **Homes as Energy Systems** and **Energy House 2 (EH2)**, both funded by the European Regional Development Fund (ERDF)

- Development - secured £6.2m to develop a **Local Energy Market**, developed a business case for an **Energy Transition Region** and developing a **pipeline of renewable energy projects**

Our buildings

- Policy - launched a **Greater Manchester Retrofit Strategy** and proposed net **zero carbon development** by 2028

- Delivery - installed **500 first time central heating systems** and supported over **1500** fuel poor homes with advice and insulation measures through ERDF. 1340 Energy advice visits and <11K easy measures installed via **LEAP**. Shortlisted for Council of the Year for the NW Energy Efficiency Awards

- Development—developing proposals for a retrofit accelerator, future skills and training and future business models; LGA-funded project started to assess retrofit potential of housing stock; assessing public service buildings to create more energy efficiency project pipeline

Our travel and transport

- Policy - launched a **Clean Air Plan for GM** and consultation of bus franchising

- Delivery - nearing completion of the £350m **Metrolink extension** and approved 81 cycling and walking schemes as part of the **Bee Network**, with a total value of £500 million

- Development – the final version of **2020-2025 Transport Delivery Plan** to be published later this year and more detailed proposals for statutory consultation as part of our Clean Air Plan

What we produce and consume

- Delivery - appointed **Suez** as new waste contractor

- Delivery - on **single use plastic**, supported **#PlasticfreeGM** campaign, implementing Public Sector Plastic Pact, rolling out a network of water refill stations and piloted **“Grab a Cup”**

- Delivery - launched **GM green compostable carrier bag** scheme to retailers in the city-region

- Development - developing a Sustainable Consumption and Production Plan, commissioned research on domestic waste and working with Manchester Metropolitan University on a **£9m plastics project**

Our natural environment

- Policy - **Tree and Woodland Strategy** agreed; preparing for mandatory **biodiversity net gain** across GM Local Authorities;

- Delivery - produced natural environment vision and toolkit; completed Urban Pioneer; secured £4m funding for **IGNITION** project across 12 partners

- Development - commissioned work to design an Investment Readiness Fund within wider **GM Environment Fund**

FIVE YEAR PLAN FOR GREATER MANCHESTER LAUNCHED MARCH 2019

The city region’s bold ambition is to be carbon-neutral by 2038 – 12 years’ ahead of the government’s own target (on 1990 levels) by 2050

The Paris-aligned, science-based plan sets out how Greater Manchester will become one of the world’s healthiest, cleanest and greenest city regions. Its publication followed extensive engagement with residents, businesses and other organisations across Greater Manchester, which started before the 2018 Green Summit. This approach continues now in implementing a mission-based approach to delivering the plan.

The plan sets out commitments from Greater Manchester’s local authorities and health sector to reduce its own environmental impact (of its buildings, vehicle fleets and procurement, in particular) alongside a set of policy and delivery initiatives to support the city region speeding up the transition and making sure opportunities are available to everyone.

This year Greater Manchester city-region was named on the CDP’s (formerly the Carbon Disclosure Project) ‘A List’ of 105 global cities, states and regions that are increasing transparency and accelerating steps to combat climate change.

The city-region is also one of three UK cities to be short-listed by the World Wildlife Fund’s ‘One Planet City Challenge’ a worldwide competition helping to shape the future of sustainable cities.

The plan can be downloaded via - www.greatermanchester-ca.gov.uk/environment



WHAT CAN YOU DO?

We all have a part to play in delivering the challenging actions set out in the Five Year Environment Plan. The approach underpins 5 key principles. It is a plan that is:

- 1. For all of us
- 2. Focussed on urgent action
- 3. Visionary
- 4. Ambitious
- 5. To be reported on

Businesses are being asked to lead the way, maximising the potential economic benefits from the transition to a low carbon economy. Action includes:

- Increasing the efficiency of how they heat and power their buildings and produce goods/services,
- Reducing the environmental impact of how their goods and staff travel
- Installing renewable energy and heating technologies at their premises.

Staff can play a key role too – several organisations have supported this by:

- Running carbon literacy training for their staff or promoting environmental volunteering.

Residents can also take what seem like small steps but which will add up to making a big difference across GM:

- Cycle and walk for short journeys and use public

- transport for longer ones.
- Where we do need to drive, we can car share or replace or petrol/diesel car with an electric one when we come to replace it.
- Consider installing renewable energy generation at home or upgrade to a low carbon heating system
- Insulating homes properly to reduce the impact of the energy we use.
- Our consumption of products that are made outside the city region, such as food, clothing and single-use plastics, can also have a significant impact on the environment – so we need to think about the products we buy and consume and dispose of.

Even with all this action, the plan shows that this will only get us so far towards our aims and there is still a gap between the sum of these ambitious actions and our aims. To close this gap, we all need to work together in new and innovative ways – in how we develop new technologies, how we fund and finance investment in deploying what already exists, how different sectors work together, how we increase the capacity and capability of our workforce and how we educate and change people’s behaviours.

The plan is just the start of our mission to do this and the start of a conversation with everyone in Greater Manchester about how we work together to do that – and we all need to be a part of that conversation.

A mission based approach

One of Greater Manchester’s unique assets, that differentiates us from other City Region’s, is the strength, depth and longevity of our partnerships. Greater Manchester will accelerate delivery on its ‘carbon neutral by 2038’ target, by using a mission based approach to deliver clean growth. No single organisation can implement the actions set out in the Five Year Environment Plan alone, a cross sectoral approach is need. The Mission Based Approach requires setting an ambitious mission of “Carbon Neutral Living by 2038” and breaking this down into manageable challenges. Rather than focusing on particular sectors, this approach focuses on problem specific challenges with ‘Task and Finish Groups’ working on the challenges. The principles of a mission-based approach are: Joining up, focusing our efforts and regularly reporting on progress.

ENERGY CHALLENGE GROUP ~ CHAIRED BY PAUL BIRCHAM, ELECTRICITY NORTH WEST	
PRIORITIES: 1. Increase local energy generation 2. Decarbonise how we heat our buildings 3. Increase diversity & flexibility of supply	TASK & FINISH GROUPS: 1. Energy master planning 2. Innovation 3. Generation and storage 4. Low carbon heat
BUILDINGS CHALLENGE GROUP ~ CHAIRED BY ROBIN LAWLER, NORTHWARDS HOUSING	
PRIORITIES: 1. Reduce heat Demand from homes 2. Reduce heat demand from commercial & public buildings 3. Reducing the heat demand in new buildings	TASK & FINISH GROUPS: 1. Delivery and business models 2. Domestic 3. Commercial 4. Public
CONSUMPTION & PRODUCTION CHALLENGE GROUP ~ CHAIRED BY RICHARD JENKINS, SUEZ	
PRIORITIES: 1. Produce goods & services more sustainably 2. Become more responsible consumers 3. Managing our waste sustainably 4. Reducing unnecessary food waste	TASK & FINISH GROUPS: 1. Becoming a circular city-region 2. Sustainable procurement including carbon financial appraisal tool 3. Tackling single-use plastic and plastic packaging
NATURAL CAPITAL CHALLENGE GROUP ~ CHAIRED BY ANNE SELBY, LANCASHIRE WILDLIFE TRUST	
PRIORITIES: 1. Managing our land sustainably 2. Managing our water & its environment sustainably 3. Achieving a net gain in biodiversity for new builds 4. Increasing investment in natural environment 5. Increasing engagement in our natural environment	TASK & FINISH GROUPS: 1. Agreeing Tree & Woodland Strategy & completing Peatland pilot 2020 2. Delivery of Natural Course project 2024 3. Overseeing dev of Biodiversity Net Gain Guidance and implementation of GMSF 4. Delivery of IGNITION project Nov 2021 & Over-seeing design and dev of IGM Environment Fund 5. Develop and launch engagement toolkit Autumn 2020.
COMMUNICATIONS CHALLENGE GROUP ~ CHAIRED BY LOUISE BLYTHE, BBC ACADEMY	
PRIORITIES: 1. Develop overarching communications strategy and framework 2. Support ongoing communications and behaviour change campaigns 3. Support other challenge groups	TASK & FINISH GROUPS: 1. Tone and key messages 2. Talent & Ambassadors 3. Behaviour change 4. COP26 and GM Green City presence 5. Case study development