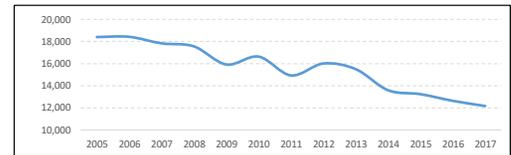


Environment Team Performance Overview

GM CO2 Emissions (kt CO2)



Risk	Programme Issues	Resources	Costs	Overall Delivery Confidence
Amber	Green	Amber	Green	Green

Individual Work Programme Delivery Confidence					
Energy	Buildings	Sustainable, Production and Consumption	Natural Environment	Climate Change	Transport
Green	Green	Green	Green	Green	Green

Key Risks (Top 5)

Risk Event	Risk	Mitigation Plan	Post Risk
Failure of Environment Plan to achieve a step change in carbon emissions.	Red	Regular reporting to LC Programme Group, LC Hub Board and WLT.	Amber
Natural Course Phase 3 proposal and budget not approved by EU.	Amber	Close working with EASME and project monitor to ensure smooth transition to phase 3.	Green
Failure to meet recycling and diversion targets.	Red	New contract in place. Waste composition will assess feasibility of achieving targets. Waste and Resource strategy to be developed.	Amber
Failure to deliver the aims of the IGNITION project and attract private investment.	Red	Regular reporting to LC Programme Group, LC Hub Board and WLT.	Amber
Unable to support the delivery of an Environment Fund.	Red	Further due diligence work is being undertaken with EA/Partners on the viability of the Environment Fund.	Amber

Work Programme Issues (Top 5)

Issue	Status	Mitigating Action/s
Level and depth of retrofit required to meet our overall ambitions is highly challenging.	Red	Focus on retrofit accelerator proposals as way of overcoming these barriers in a coordinated way.
Delay in delivery of GMCA Waste and Resources Strategy.	Amber	A 5-year SCP plan to be produced by Sep-19. Waste and Resources Strategy to be developed following government consultations.
Delay to start of Natural Course Phase 3 Actions.	Amber	Clear Phase 2 reporting requirements. Work with coordinating beneficiary for timely approval of Phase 3 and begin work on actions without large budget spend.
Retrofitting of existing buses has been stalled due to contract negotiations (Clean Air Plan) and bus reform.	Amber	Continue to support operators and work through issues. Some orders have now been placed, however no retrofits have taken place.

Key Achievements (April 2019 onwards)

Category	Details
Energy	Launched Whole System Wide SMART Energy Plan. ENW launched their zero carbon plan at Green Summit, which included future energy demand forecasts.
Buildings	Draft retrofit report developed and discussed with stakeholders.
SCP	Refill bottle filling station pilot launched in Bury. Continuing to support PlasticFreeGM campaign. GM Green compostable carrier scheme launched with support from GMCA. Re-tendering of the GM Waste Contract completed and Suez appointed as new waste contractor for the GMCA
Natural Env.	Launch of Care-Peat NWE INTERREG project. Launch of DEFRA GM Peatland Pilot. Natural England to advise on development of peatland management and restoration targets. GM Tree & Woodland Strategy launched. ANGST standards progressed as part of GMSF. Biodiversity Net Gain guidance group to consider appropriate measure and baseline for future monitoring. Investment Readiness Fund designed and implemented if feasible.
Climate Change	GMSF policy includes overarching resilience policy. Level 1 Strategic Flood Risk Assessment work complete and Level 2 commissioned June 2019. Action plan for Infrastructure Strategy being developed and resilience is a key theme to be considered. Specific actions will be developed. IGNITION project gone live, received grant funding and will have identified Urban GI baseline and emerging pipelines of natural projects for urban adaptation (and potential financing routes).
Transport	24 Bee Network schemes spread across all 10 GM districts have been granted programme entry status by the GMCA. Awareness raising on air pollution included pollution pod artwork installation at media city and various events across GM to promote electric vehicles, cargo bikes and other sustainable modes of transport. There are 3 fully electric buses operating on TIGM's free bus service in Manchester city centre. 3 GM operators successfully received a total award of £9.6m for new zero emissions buses. TIGM was awarded funds for 23 buses

Key Work Programme Milestones (April - Sept 2019)

Category	Details	Impact/Notes
Energy	MMU to lead on the convening of key partners with a view to them leading the development of a hydrogen strategy for GM. Submit proposal for funding to Innovate UK for roll out of Local Area Energy Planning across the city-region. Complete scoping work for energy transition region, local energy market and local taxation levels. Prepare cost options for Leaders to deliver renewable energy generation (GM Energy Company) and carry our soft market testing.	Natural Env. Deliver Natural Capital Investment Plan, utilising EU IGNITION project to support identification and investment. Work with Coordinating Beneficiary to seek timely approval of Natural Course Phase 3 programme. Support Lancashire Wildlife Trust to expand My Wild City to reach a wider audience. Continue to develop Biodiversity Net Gain guidance including views of LPAs.
Buildings	Retrofit report to be approved by the CA and published in July 2019. Review DEC and EPC data and map via MappingGM with analysis of key headlines provided at GM and District level. Define purpose and design retrofit accelerator for GM. Continued delivery of Homes as Energy Systems (HaSE) and Energy House 2. Review and finalise low carbon policies in GMSF, including net zero carbon development.	Climate Change. Undertaking further due diligence work with EA/Others on the Environment Fund and if appropriate set up fund. Support Lancashire Wildlife Trust to explore the potential to expand My Wild City to reach a wider audience. Develop dedicated communications plan for GM Green City Region. Resilience RoadMap to be published setting out a clear approach to resilience across GM. Phase 2 Strategic Flood Assessment to be commissioned in June 2019.
SCP	Develop and launch SCP/Circular Economy Plan. Proposals for LA Plastic Pact to be submitted to WLT. Continue to support PlasticFreeGM and the bottle refill station pilot in Bury with 3 more fountains to be installed.	Transport. Award contract for an EV Charging Infrastructure supplier. Tender process underway. Discussions with Districts on 24 rapid charger points approaching conclusion. Continue to raise awareness on air pollution as a health issues and the action everyone can take to help tackle it.

Greater Manchester Strategy (GMS)

Ref	Key Targets (2020)	Status	Commentary
5.7	Continue to reduce harmful emissions from transport sector. By 2020 GM to have reduced Co2 emissions to 11mt.	↑ Green	Further work underway to ensure GM Clear Air Plan can achieve 2020 target for performance.
7.1	Have co-produced a pathway for the next 5 years setting out actions to achieve an accelerated date for carbon neutrality.	↔ Green	GM now has the first city-region level science based target and pathway. Work now underway to deliver and monitor actions.
7.2	Accelerated deployment of energy generation/efficiency technologies.	↑ Amber	GM has less than 50% of the UK average renewable energy installed which outlines the challenges.
7.3	Develop mechanisms to encourage the retrofit of public, commercial and domestic buildings.	↑ Green	On track to achieve 2020 action.
7.4	60% recycling of household waste by 2025 and 90% diversion from landfill by 2020. Establish a waste to energy (biomass) pathway for residual commercial waste.	↔ Amber	District recycling rate GMWDA 47%. Wigan 48.5%. GMWDA landfill diversion at 88.8% (2016/17).
7.5	Ensure the 2040 Transport Strategy – and wider transport investment – is fully aligned with our carbon neutral ambitions.	↑ Green	On track to achieve 2020 action.
7.6	Deliver the Urban Pioneer programme as part of Defra's 25 year Environment Plan to become an exemplar in managing the urban environment.	↑ Green	On track to achieve 2020 action.

5-Year Environment Plan

Ref	Priorities (2024)	Status	Progression towards targets
Overall	For our city region to be carbon neutral by 2038 and meet carbon budgets that comply with international commitments.	↔ Amber	GM emissions data for 2017: 12,165 kt CO2, down 469 kt (-3.7%) compared to 2016 (12,634 kt). The reduction is slightly lower than that between 2015 and 2016, when emissions were down 604 kt or -4.6% over the year.
Energy	Reduce CO2 emissions that are produced by the energy we generate to power our buildings, transport and heat - shifting to renewable sources.	↔ Green	80.5 MW of GM accredited renewable heat sources generated in May 2019, up from 79.8 MW in Apr 19. 2% progression towards target. Awaiting further data - Additional renewable capacity due June 2019.
Buildings	Reduce CO2 emissions produced by excessive use of energy particularly in heating our homes and commercial and public buildings.	↑ Amber	Awaiting data
SCP	Promote economic and resource productivity, eliminate waste and increase business opportunities through innovation.	↔ Amber	Refill pilot launched in Greater Manchester. 7% progression towards re-use target (3 per year). Waste and recycling targets reported annually. Current recycling rate (2017/18) is 47.1% against a target of 55% for 2024.
Natural Env.	Protect, maintain and enhance our key natural assets (air, land, water and biodiversity).	↔ Amber	Awaiting data
Climate Change	Deliver robust action on climate adaption to protect vulnerable communities, our economy, key infrastructure and our natural environment.	↔ Green	Awaiting data
Transport	Improve our air quality and reduce CO2 emissions that are produced by the way we, and the goods we use, travel within our city region.	↔ Green	28% of all trips made by cycling/walking in 2017/18 up from 27% in 2015/16. Current ratio of journeys made by car vs sustainable modes of transport is 39/61 against a target of 50/50 for 2040. 2537 plug-in vehicles registered at end Mar 18. 5.4% increase from 2016/17. 3 zero emission buses in TIGM fleet to-date.