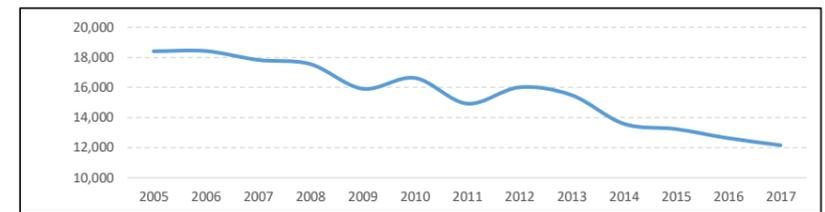


Environment Team Performance Overview

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

GM CO2 Emissions (kt CO2)



| 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 | 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. |
| NEW RISK: Progress on wider resilience strategy being led by CCU unknown due to issue around Rockefeller programme. | Red | Need to engage with Civil Contingencies Unit to understand key risks. |

Key Achievements (June 2019 onwards)

| | |
|-----------------------|--|
| Energy | Solar Together GM launched on 16th September for registrations with a reverse auction taking place on 23rd October. NEDO summary and technical analysis published. Sites selected for generation and storage assets for Energy Investment Prospectus with a multi District ERDF submission made and currently proceeding with full application. Big Clean Switch, has achieved 543 household switches in GM, the target for 2019 is 1000-5000. 47 SMEs supported to reduce resource consumption saving 737t CO2e/yr, the 26 grants issued leveraged £80k of private investment, with a further 21 companies supported in Low Carbon Sector. |
| Buildings | Retrofit report agreed by the Combined Authority in September 2019. Successful consortium bid of city regions, led by UKGBC, to develop proposals for city-led retrofit programmes (funded by Climate-KIC). Consultants engaged in developing the standard for a pathway to zero carbon new development with refined policies to be incorporated into revised GMSF. |
| SCP | First SCP Challenge Group held in October 2019. Priorities agreed for development of SCP 5-Year Plan. Refill bottle filling station pilot launched in Bury - 3 fountains installed, looking to progress 1 more. 2 fountains installed in Stockport. Continuing to support PlasticFreeGM campaign. Agreed in principle the findings of food strategy board report. Work is ongoing to develop future governance structure. |
| Natural Env. | Natural England is leading a Peat Pilot in Greater Manchester focusing on delivery of peatland targets to support the creation of the England Peat Strategy. Salford Council completed natural capital accounting for their HIF bid; now being utilised as best practice. Biodiversity Net Gain task group met in July and Sept to consider appropriate measure and baseline for future monitoring. Roadmap Phase 2 underway. GM H&P Commission briefed and presentation at POG Environment Session. Planning applications starting to feature BNG proposals. IGNITION project launched and work packages commencing. Tender brief issued to design and implement Investment Readiness Fund. Final form and initial function of Environment Fund has now been agreed at GMCA SMT level. Tender brief issued to develop natural environment engagement resources. |
| Climate Change | Level 1 Strategic Flood Risk Assessment work complete and Level 2 commissioned June 2019. Testing of future growth and specific sites ongoing in Level 2 SFRA work. Task group set up to focus on Water Management and Green/Blue Infrastructure. Flood risk capital pipeline being managed by EA and to be delivered by 2021. Capital Schemes progressing in Bury and Rochdale |
| 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 TfGM's free bus service in Manchester city centre. 3 GM operators successfully received a total award of £9.6m for new zero emissions buses. TfGM was awarded funds for 23 buses |

Key Work Programme Milestones (July - Dec 2019)

| | | | |
|------------------|---|-----------------------|--|
| Energy | Proposal for funding submitted to Innovate UK on 3rd August for roll out of Local Area Energy Planning across the city-region. Interviews will take place on October 17th. Final decision October 25th. Continue to support MMU on development of Hydrogen Strategy. Options appraisal for the Energy Transition Region concept has been delayed but is due to be completed end of October 19. GM Energy Company - Soft market testing completed and a tender document is now in development in conjunction with GM Investment team. First meeting of the Energy Innovation Challenge Group to be held on 7th October 2019. | Natural Env. | Finalise detailed project planning and recruitment for IGNITION. Procurement of consultant support (for business case development for SUDS funding stream and wider support for developing other business models) underway. Continue to work with Coordinating Beneficiary to seek timely approval of Natural Course Phase 3 programme Continued development of GM Tree and Woodland strategy by City of Trees with launch in October 2019. Continue to promote and embed ESS Opportunity Mapping within guidance documents including Net Gain and GI Standards. Work with GM Environment Fund (GMEF) steering group to find a partner organisation to establish the GMEF and run it. Expressions of interest to be sought from local organisations. Exploring demand for and opportunities to expand My Wild City to reach a wider audience. |
| Buildings | Final retrofit report provides outline scope and purpose, a more detailed proposal to be prepared for first meeting of Buildings Challenge Group on 10th October. Mapping and visualisation via MappingGM to be completed with analysis of key headlines provided at GM and District level. Complete work on Currie and Brown report to inform viability of policy for GMSF. Initial costings of policy baseline has been provided for the baseline testing. | Climate Change | Communications Challenge Group workshop to develop GM Green City narrative and key messages. Evaluate communications planning with GMCA Central communication team. Deliver online training portal for carbon literacy. Resilience Roadmap to be published setting out a clear approach to resilience across GM. Rockefeller programme withdrawn. Progress on strategy delayed. Continue to test future growth and specific sites in Level 2 SFRA work as part of Strategic Flood Assessment. First challenge group meetings to be held in October 2019 as part of mission based approach. |
| SCP | Commission consultancy to look at options for GM bio-waste collections and disposal in response to Government Consultations. SCP challenge group held in October/priorities agreed for development of plan. Plan to be drafted and Task & Finish groups established to focus on key actions. Convene working group to look at usage and spend data across LAs on single-use plastics and key priorities for the development of Plastic Pact Roadmap. Refill Pilot - Progress final installation of the last fountain in Bury and monitor pilot over next 6 months. GM Refill website to be launched. | Transport | Award contract for an EV Charging Infrastructure supplier. Tender process underway. Discussions with Districts on 24 rapid charger points approaching conclusion - awaiting update. 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. An informal 'clean air conversation' has taken place, and a public consultation is to be launched. |
| 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. Mission based approach for clean growth adopted and 5 challenge groups agreed. |
| 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. GM Whole System Wide Smart Energy Plan launched in conjunction with the Energy Systems Catapult. |
| 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) | ↑ Amber | District recycling rate 48% (2018/19). Landfill diversion at 90% (2018/19). Measures underway to increase |
| 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 | 80.7 MW of GM accredited renewable heat sources generated in July 2019, up from 80.5 MW in June 19 and 27.9 MW higher than in July 2018. 132 MW of renewable capacity generated in June 19, 5MW higher than in June 2018 and 11% progression towards target. |
| Buildings | Reduce CO2 emissions produced by excessive use of energy particularly in heating our homes and commercial and public buildings. | ↑ Amber | 86.9% of GM lodgements have an energy efficiency rating of D or above (EPC/DEC) in Q2 2019. This is a slight decrease from Q2 2018 of 0.7%. |
| 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). Recycling rate (2018/19) is 47.9% up 0.8% from 2017/18 against a target of 55% for 2024. |
| Natural Env. | Protect, maintain and enhance our key natural assets (air, land, water and biodiversity). | ↔ Amber | In 2017/18, 37.9% of GM residents reported they had visited the natural environment at least once during the previous 7 days. This is 2.4% lower than 2016/17. Indicators to be updated. |
| Climate Change | Deliver robust action on climate adaption to protect vulnerable communities, our economy, key infrastructure and our natural environment. | ↔ Green | Awaiting data - Indicators to be confirmed as part of the IGNITION project and Resilience Strategy. |
| 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. 3,697 plug-in vehicles registered at end Q2 2019, 13% increase from 2018. 3 zero emission buses in TfGM fleet to-date. |