LOCAL CLIMATE ACTION PRACTICES GREATER MANCHESTER (UK)









#GMGreencity

We face environmental threats and challenges, but tackling them will present opportunities for Greater Manchester...



5 environmental threats and challenges to Greater Manchester

| Climate change – mitigation | Air Quality | | | Production and consumption of resources | | Natu Enviror | ral Iment | Climate change – resilience and adaptation |
|---|---|--|--|--|--|--|--|--|
| More radical local and national action to accelerate CO2 emissions reductions | Health impacts or particulates and nitrogen dioxide - NO2 levels in breach of legal limits | | | Throwaway society and particular issues with plastic and food waste | | Multiple benefits still yet to be fully realised or accounted for – lack of other sources of investment | | Increasing risk of extreme weather events – particularly flood risk but also heat stress |
| | | | 3 opportunities in tackling the | | | m | | |
| People | | | Places | | | | Economy | |
| Improve health and quality of life, increase productivity and reduce inequality | | | Create vibrant and sustainable places and good quality homes | | | | First mover advantage – increase prosperity and productivity | |

5 Year Plan Priorities







Models are useful in informing the pathway....

MtCO2 per year



need to take action now...



Focus on the innovation that can close the gap:

- Technology
- Finance and funding
- Partnerships
- Leadership
- Engagement and education
- Skills



...identify where emissions reductions come from...



Most significant drivers:

- Homes & Buildings
- Cars, vans, taxis, motorcycles

Need decarbonisation of electricity supply to support this

Less significant drivers:

- Industry
- Freight
- Public transport
- Other local (e.g. waste, agriculture)



The Mission: Carbon Neutral by 2038

Emissions magnitude by sector (ktCO2/2019)



- Transport and domestic gas are currently our largest two largest sources of carbon emissions and the two areas where we are failing most significantly to make the progress we need
- We need to transition away from the use of fossil fuels, towards zero emission solutions
- This will require the region to electrify its heating and local transport and move heavy haulage and industry towards hydrogen
- To enable this the region will need to generate more renewable energy locally that can meet our increasing demands (including green hydrogen production)
- A whole system approach needs to be adopted.

The Mission: Carbon Neutral by 2038

The Mission: GM pathways to net zero



IURC Project with Osaka

- Japan an international priority for Greater Manchester
- IURC Partnership started in 2021
- Focused on Climate Change and Environment
- First Virtual Meeting in December 2021
- Webinar in spring 2022 Waste and decarbonatization of heating.





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GREATER MANCHESTER DOING THINGS DIFFERENTLY

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