

# Annex 05a

## 5 Year Environment Plan Performance Overview

Progress Status			
Area	Priorities/KPIs (to 2024)	Status	
Energy	Add at least 45MW of local renewable energy by 2024 - TARGET Reached	↑	Green
	Additional 10TWh of low carbon heating by 2024	↔	Red
	Add at least a further 45MW of diverse and flexible load by 2024 - TARGET Reached	↑	Green
Buildings	Retrofit 61,000 homes/year (target 305,000 by 2024, 887,000 in total)	↑	Red
	Build 30,000 net zero carbon social rented homes by 2038.	↑	Green
	Reduce heat demand from existing commercial and public buildings	↑	Amber
SCP	38% reduction in industrial emission by 2025.	↑	Amber
	Limiting any increase in waste to 20%.	↑	Green
	Achieve a recycling rate of 55% by 2024, and 65% by 2035.	↓	Amber
Natural Env.	Managing our land sustainably, including planting 1m trees by 2024.	↑	Green
	Managing our water and its environment sustainably.	↑	Red
	Achieving a net gain in biodiversity for new development.	↑	Amber
	Increasing investment into our natural environment.	↑	Green
	Increasing our engagement with our natural environment - Number of Volunteers.	↑	Green
Transport	Reduce car use to no more than 50% of daily GM trips, by 2040 (remaining 50% to be public, or active travel)	↔	Amber
	Support expansion to 200,000 EVs in city region by 2024	↑	Green

2038 Carbon Target	Costs	Resources	Overall Delivery	Risk
Red	Green	Green	Amber	Amber



Key Risks			
Risk Event	Risk	Mitigation Plan	Post Risk
Failure of Environment Plan to achieve a step change in carbon emissions.	Red	Regular reporting to Greater Manchester Green City Region Partnership Board and WLT.	Amber
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.	Amber
Failure to enhance our water bodies against level of ambition.	Red	Intergrated water plan in place to deliver progressive improvements.	Amber
Failure to add an additional 10TWh of low carbon heating by 2024	Red	Focus on acceleration of Retrofit including the launch of the 'Your Home Better' service, Octopus Heat Pump offer and DEEP project delivery.	Amber

## About this dashboard

Greater Manchester faces major environmental challenges that threaten the health and prosperity of our region. We are taking action with the Five-Year Environment Plan, launched in March 2019. The plan sets out our long-term environmental vision – to be carbon neutral by 2038 – and the urgent actions we all need to take between 2019 and 2024 to help achieve this. [You can find the plan here.](#)

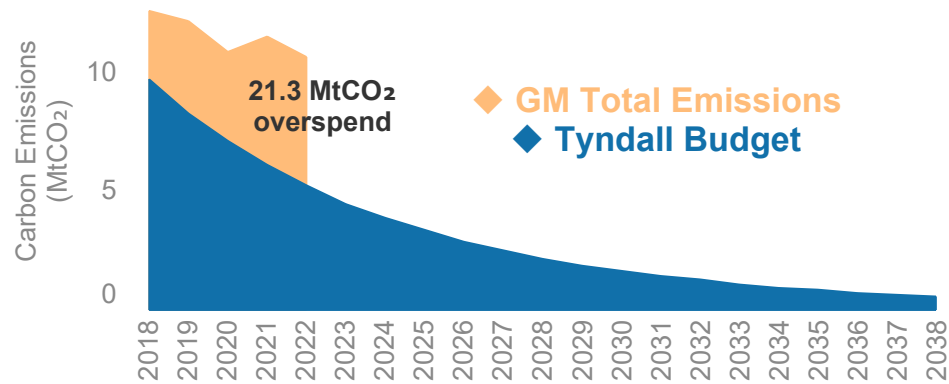
This dashboard keeps track of our progress against those actions. It is divided into six pages, with a page dedicated to evaluating progress in each of the plan's priority areas. You can use the menu in the top left to navigate between them, or click on the links in the box below. For more on the data used within each screen, click on the info icon in the top right of each box (eg see the one on this box).

## What targets are in the 5YEP and which are being tracked here? (click icon to navigate to page)

Emissions		<b>Goal: Be carbon-neutral by 2038</b>	See 'Emissions' page
Energy		E1: Increase local renewable energy (electricity) generation, adding at least 45MW by 2024	See 'Energy' page
		E2: Decarbonise how we heat buildings, adding at least 10TWh of low carbon heating by 2024	See 'Energy' page
		E3: Increase diversity & flexibility of electricity supply, adding at least 45MW of diverse & flexible load by 2024	See 'Energy' page
Transport		T1: Increase use of public transport and active travel, with car use reduced to less than 50% of daily GM trips by 2040	See 'Transport' page
		T2: Phase out fossil-fuelled private vehicles for zero emission (tailpipe) alternatives, with 200,000 EVs in GM by 2024	See 'Transport' page
		T3: Tackle the most polluting vehicles on our roads	In development
		T4: Establish a zero emissions bus fleet, with all buses zero emissions (tailpipe) by 2035	See GMS dashboard
		T5: Decarbonising freight transport and shifting freight to rail and water transport	In development
Buildings		B1: Reduce heat demand from existing homes by retrofitting 61,000 homes per year	See 'Homes' page
		B2: Reduce heat demand from existing commercial and public buildings by 10% by 2025	In development
		B3: Reduce heat demand in new buildings, with all new development net zero carbon by 2028	In development
SCP		SCP1: Produce goods more sustainably, reducing emissions from industry by 38% by 2025 compared to 2018 levels	See 'SCP' page
		SCP2: Become more responsible consumers, with 2024 waste production increased by no more than 20% from 2018	See 'SCP' page
		SCP3: Manage our waste as sustainably as possible, achieving a recycling rate of 55% by 2024	See 'SCP' page
		SCP4: Reduce unnecessary food waste	In development
Natural Environment		NE1: Manage our land sustainably, including planting 1m trees by 2024 and improving greenspace for nature	See 'Natural Env.' page
		NE2: Manage our water and its environment sustainably, enhancing 542km of waterways by 2027	See 'Natural Env.' page
		NE3: Achieve a net gain in biodiversity for new development	In development
		NE4: Increase investment into our natural environment	In development
		NE5: Increase engagement with our natural environment, through volunteering and access to local greenspace	See 'Natural Env.' page

All

## How is GM progressing against the 2038 carbon budget?

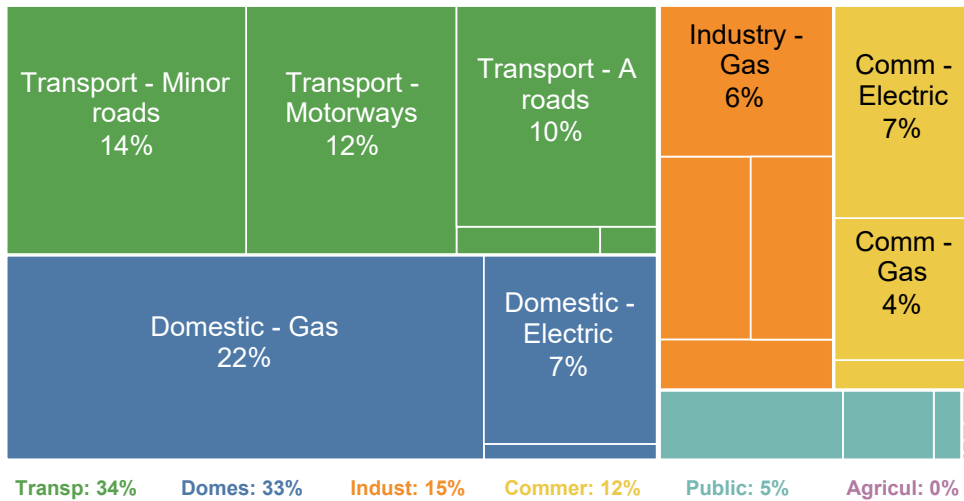


## What is GM's 'business as usual' emissions forecast?

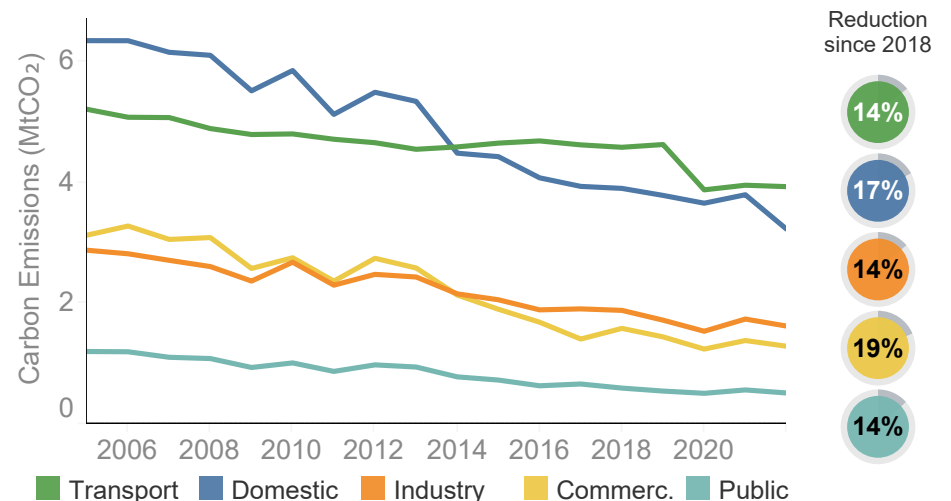


In development

## Where are our emissions coming from?



## How have our emissions changed over time?



Local Authority

Tenure

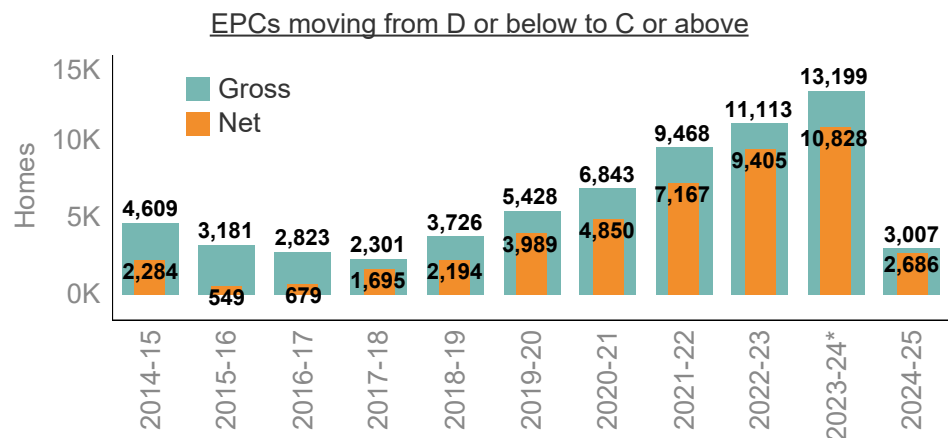
Property Type

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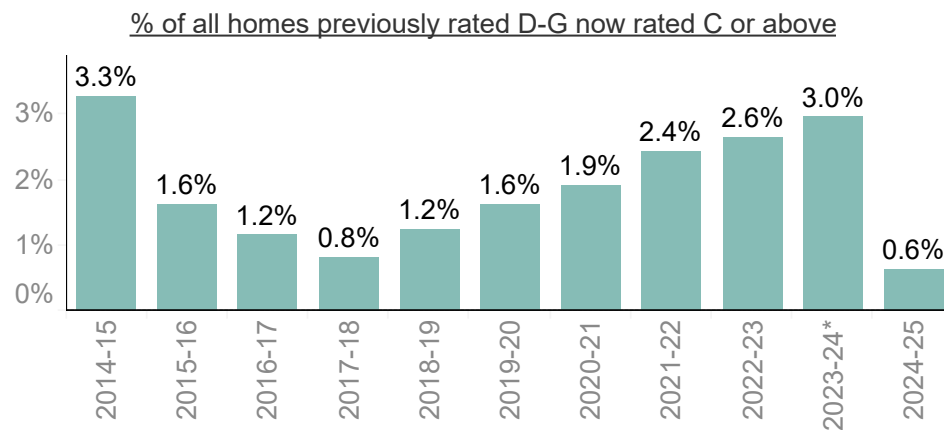
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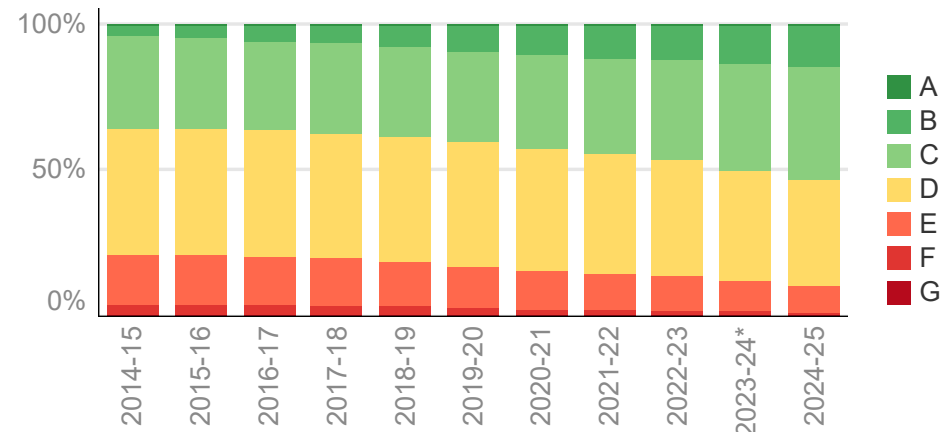
## B1: Retrofit 61,000 homes per year (305,000 by 2024)



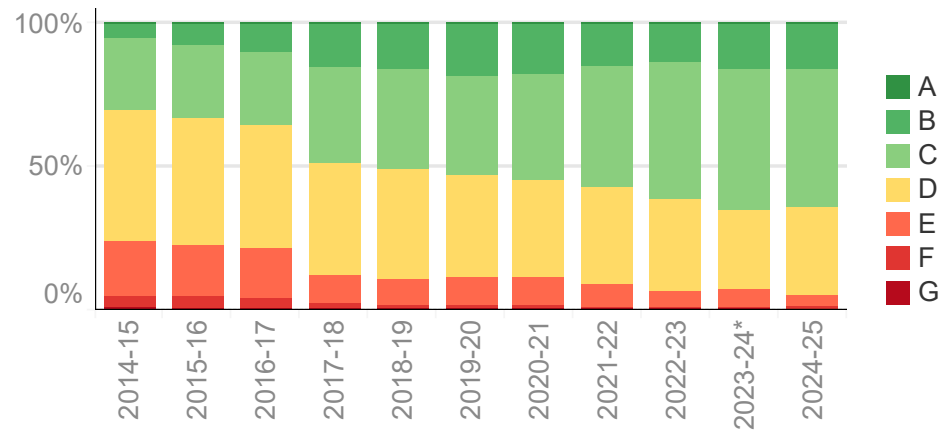
## What proportion of inefficient homes are improving each year?



## Proportion of EPC certificates in each band (all EPCs to date)



## Proportion of EPC certificates in each band (registered in that year)

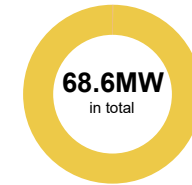
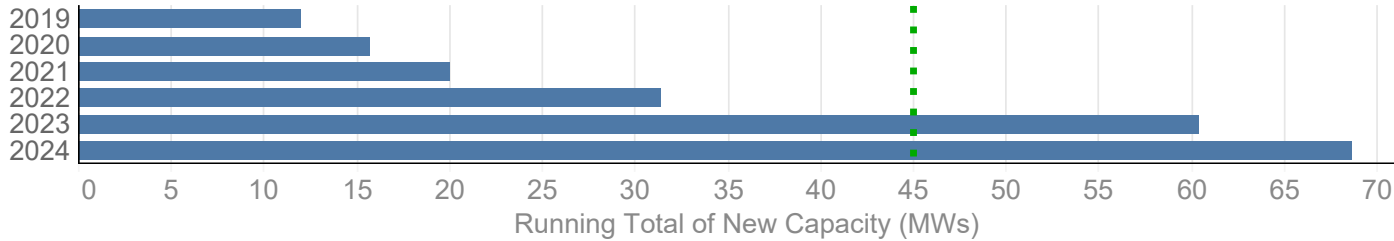


# Greater Manchester's Energy Supply

Choose which local authorities to focus on: Greater Manchester

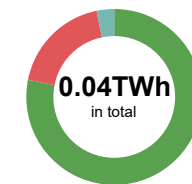
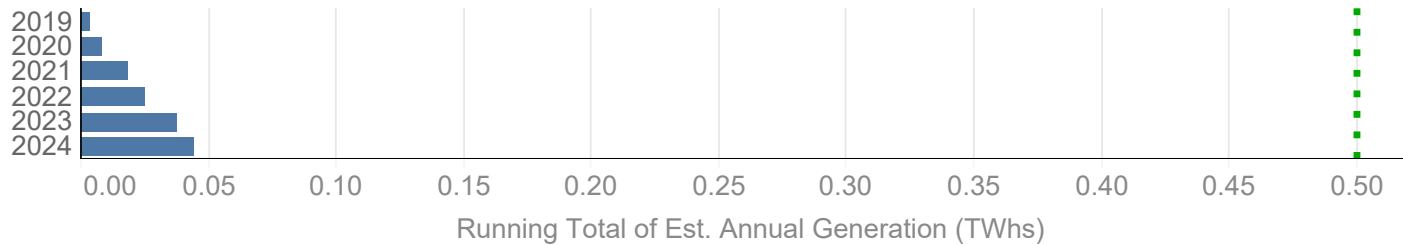
◆ Operational    ◆ Under Construction    - - - Target

## E1: Increase local renewable energy (electricity) generation, adding at least 45MW by 2024



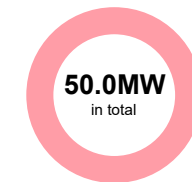
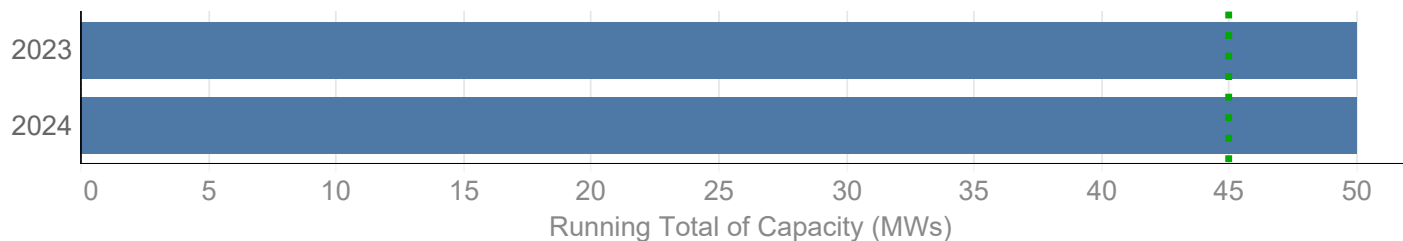
◆ Solar Photovoltaic

## E2: Decarbonise how we heat buildings, adding at least 10TWh of low carbon heating by 2024



◆ Ground/Water SHP    ◆ Solar Thermal    ◆ Air SHP

## E3: Increase diversity & flexibility of electricity supply, adding at least 45MW of diverse & flexible load by 2024



◆ Battery

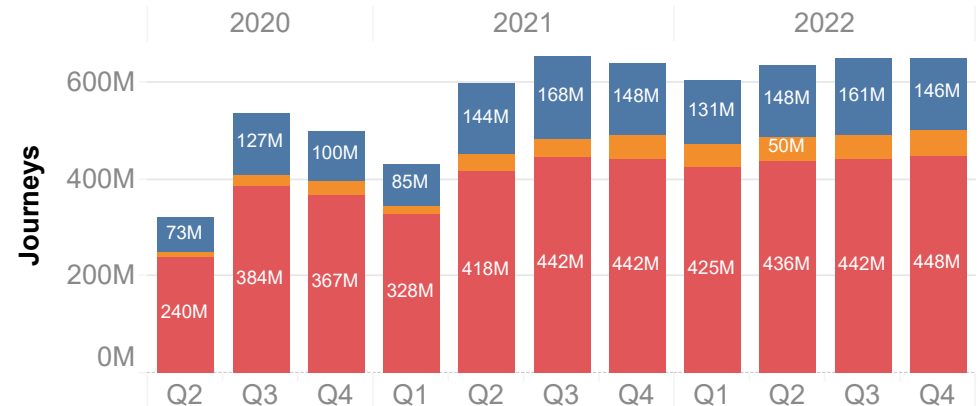
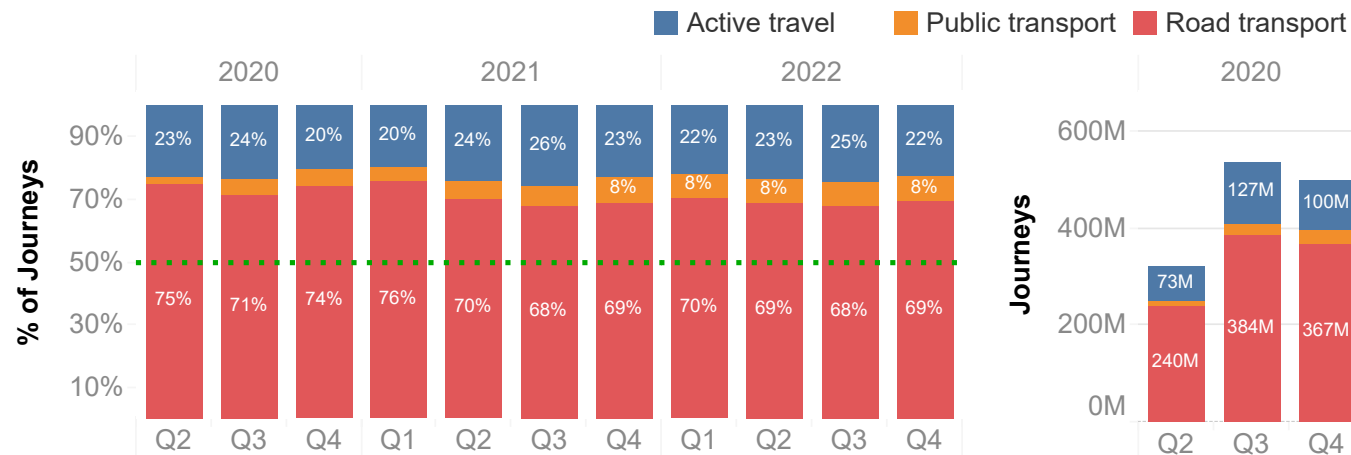
Journey mode

Journey quarter

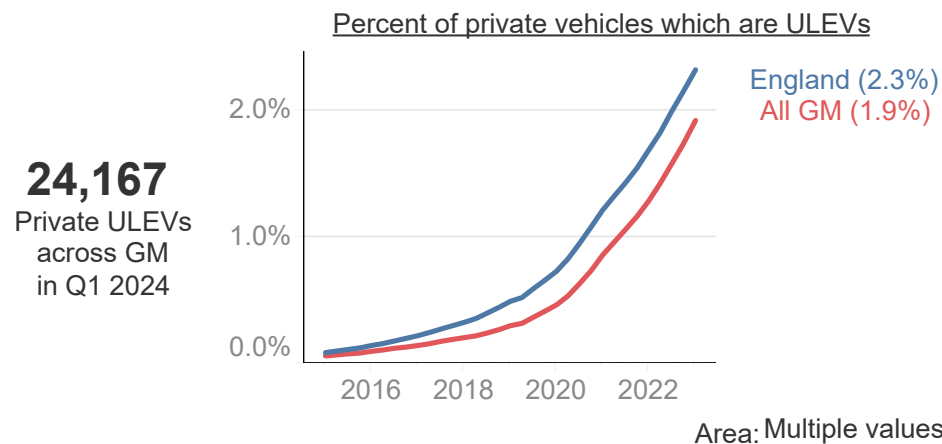
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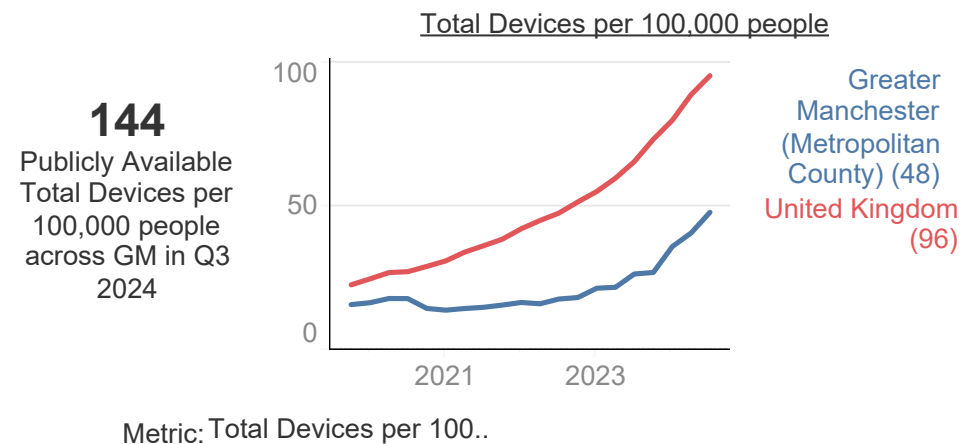
## T1: Reduce car use to no more than 50% of daily GM trips by 2040 (with the remaining 50% made up of public and active travel)



## T2: Support expansion to 200,000 EVs in GM by 2024

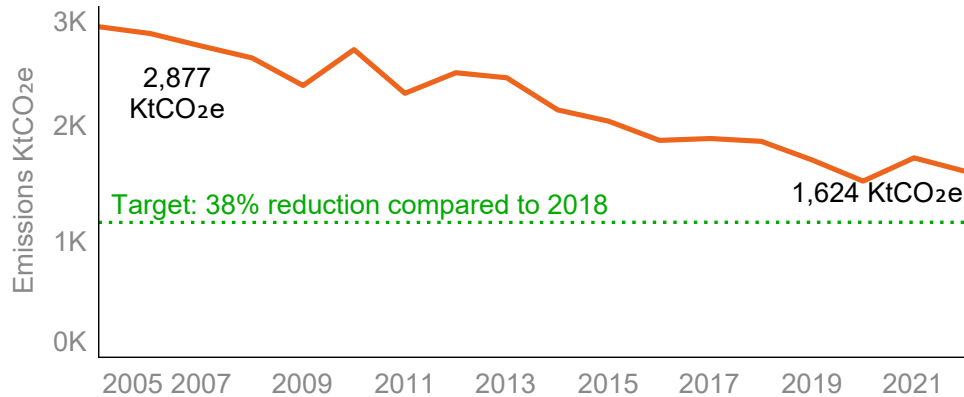


## T2: Increase the number of publicly accessible EV charging points



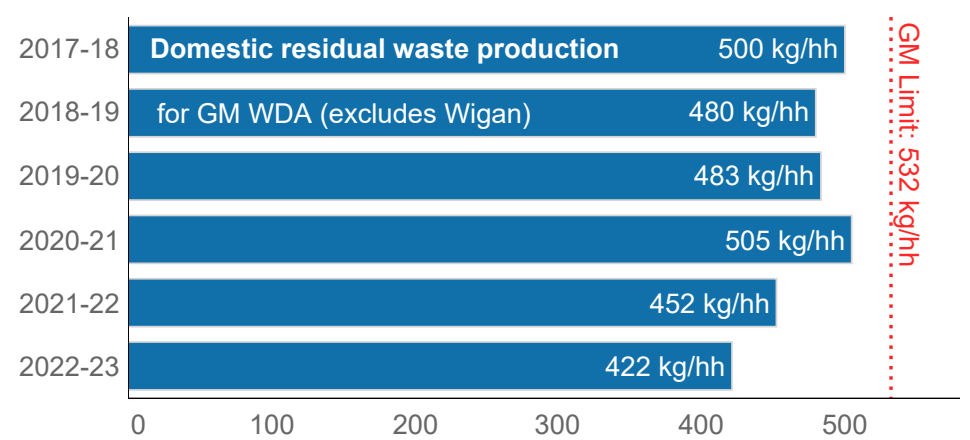
Filter data by area: Greater Manchester

## SCP1: Reduce industrial emissions by 38% by 2025

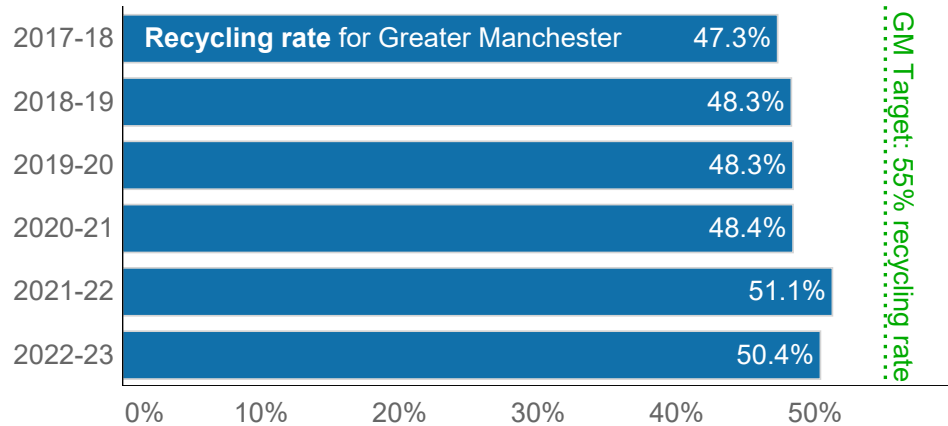


GHG: Carbon Dioxide (C..) Source: All

## SCP2: Limit any increase in 2018 levels of waste to 20% by 2024



## SCP3: Achieve a recycling rate of 55% by 2024

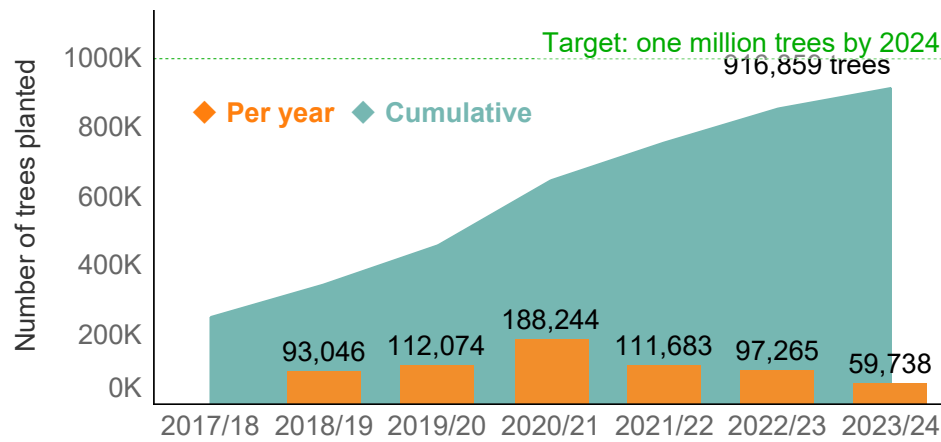


## In development



In development

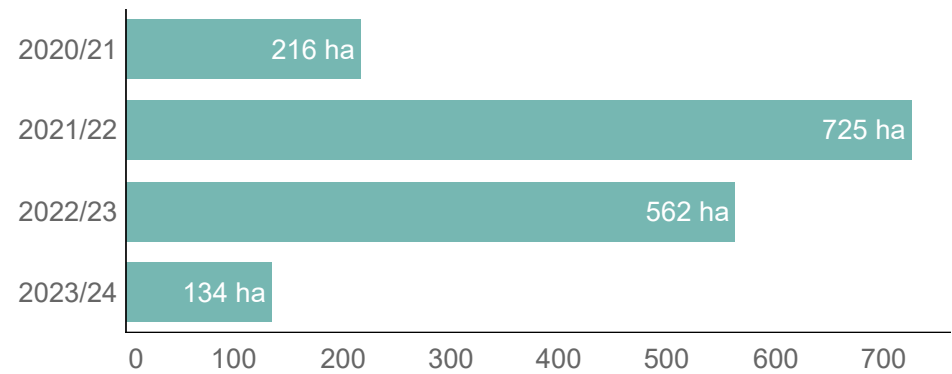
## NE1: Plant one million trees by 2024



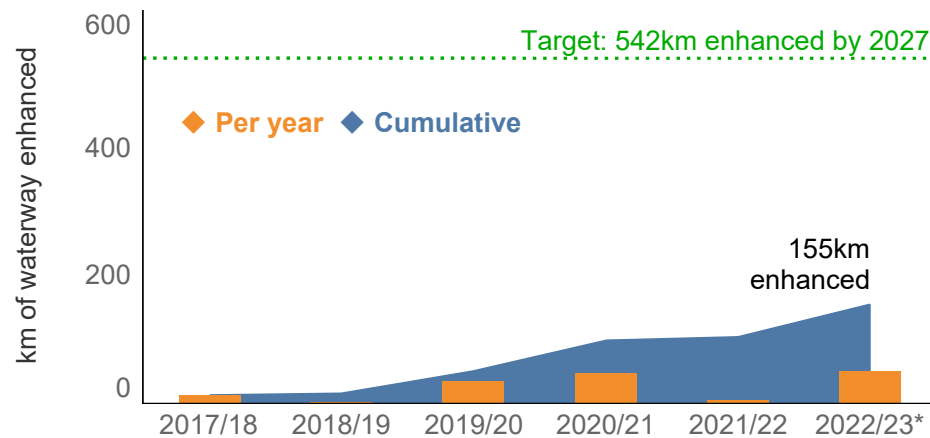
## NE1: Improve existing areas of greenspace for nature



Area of existing greenspace improved for nature (hectares)



## NE2: Enhance 542km of waterways by 2027



## NE5: Increase engagement with natural environment



Volunteering related to the natural environment

