GMCA GREATER MANCHESTER COMBINED AUTHORITY

GREATER MANCHESTER FIRE AND RESCUE SERVICE

SUSTAINABILITY STRATEGY 2022-2026

FOREWORD

I am delighted to be able to present the Authority's Sustainability Strategy. Our organisation plays a prominent role in tackling climate change at a regional level and this strategy is an extension of our commitment of delivering a leading green city region by focusing on how we will deliver on those commitments within our own organisation.

In 2019, the GMCA declared a climate emergency as a recognition of the impacts that a changing climate will have globally but also on the businesses and communities of Greater Manchester. We recognise our contribution to global greenhouse gas emissions as well as wider environmental impacts and this strategy outlines our priorities for tackling the climate emergency over the next four years and progressing towards our overall target of achieving carbon neutrality by 2038.

Our approach is wide ranging and ambitious but, in launching this strategy, we are making a clear commitment to a sustainable and low carbon culture being an organisational priority. We recognise that this scale of ambition comes with challenge, but it is the role of everyone in our organisation to contribute to our goal of being an organisation that leads the way in delivering the change we need to see for Greater Manchester's environment.

Eamonn Boylan
Chief Executive
Greater Manchester Combined Authority

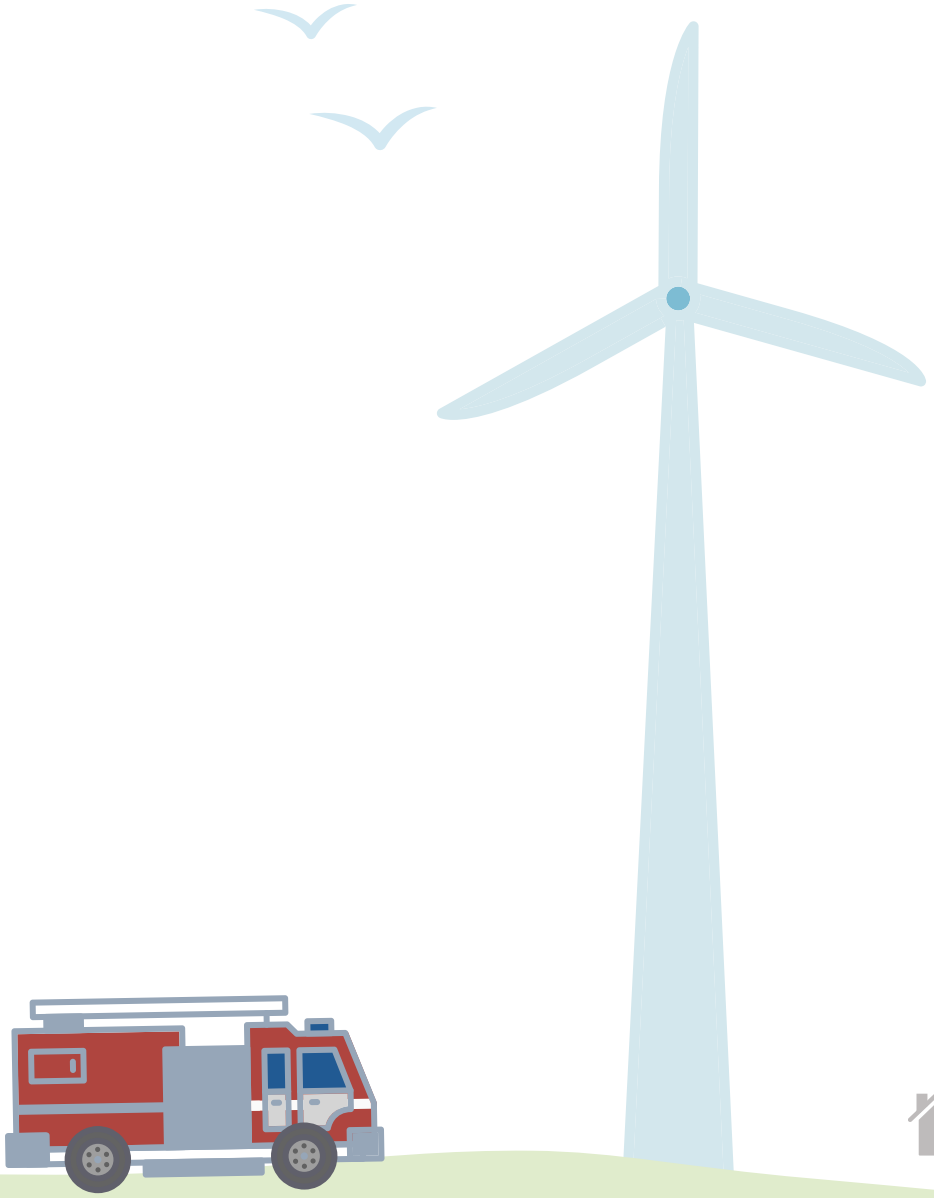
FOREWORD

Greater Manchester Fire & Rescue Service have a successful track record in reducing our environmental impact and I am pleased to be able to signal our commitment to contributing to the priorities of this sustainability strategy over the forthcoming years.

Fire & Rescue Services continue to be on the frontline of a changing climate and see first-hand the effect this has on our communities. Alongside our responsibility to respond to wide-area flooding and moorland fires, we have a responsibility to reduce our own environmental impacts from our day-to-day operations.

I welcome the launch of the strategy and look forward to colleagues across the organisation contributing to successfully continuing our efforts to reduce our environmental impacts and responding to the challenge of the climate emergency.

Dave Russel
Chief Fire Officer
Greater Manchester Fire & Rescue Service



THE REALITY OF THE CLIMATE EMERGENCY

The science is clear – we are in the midst of a climate crisis that is being driven by an increase in human induced greenhouse gas emissions.

The impacts of climate change are being felt globally with an increase in global average temperature leading to severe impacts including an increase in extreme weather events, drought and rising sea levels with the communities most vulnerable to a changing climate often being those who have contributed the least in respect of greenhouse gas emissions.

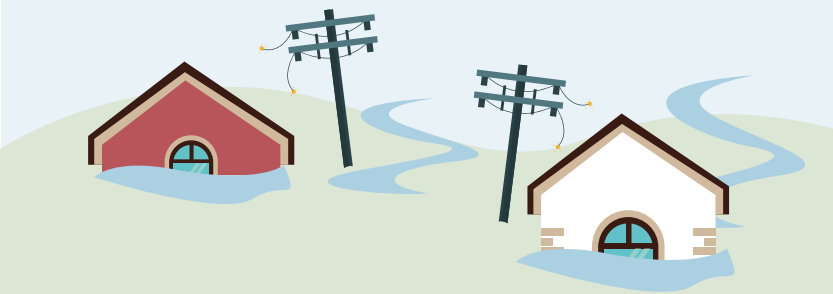
Climate change is not just a global problem – communities across Greater Manchester are facing the reality of hotter, drier summers and milder, wetter winters as well as an increase in the frequency and intensity of extreme weather events.

These climate related events pose significant challenges from an emergency response perspective. Incidents, such as the 2021 flooding following Storm Christoph or the 2018 Saddleworth moorland fire, are often large-scale, protracted and complex, placing significant strain on our frontline operational resources.

These events also pose severe risks to public safety, buildings and infrastructure and can have severe impacts on the health of our communities in the short and long term with the impacts often disproportionately impacting the more vulnerable members of our community.

Impacts of a changing climate

Warmer, wetter winters



In February 2022, flood risk during Storm Franklin put 430 homes at risk, forced residents to evacuate and lead to 'danger to life' warnings.

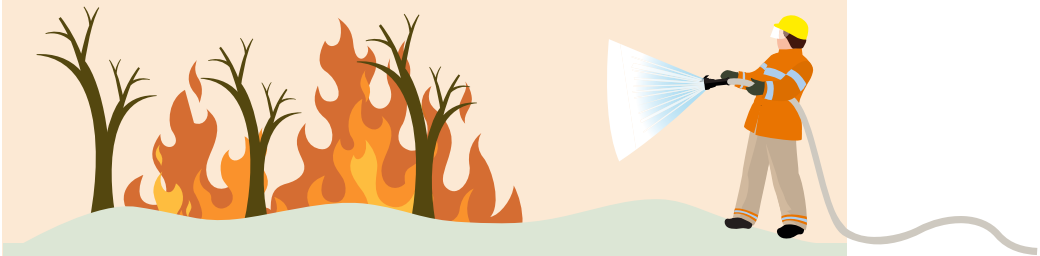
More frequent storms

The risk of car crashes rises dramatically during wet stormy weather with 11.8% of car accidents in Great Britain in 2018 caused by poor weather.

More violent weather

In February 2022, 90mph winds blew down trees and shattered windows and GMFRS attended almost 150 incidents including rescues from cars and buildings.

Hotter, drier summers



Hot, dry spells significantly increase the chance of wildfires. Fires across the region in 2018 destroyed at least 2,000 hectares of moorland and were attended by fire services from seven different counties.

WHY HAVE WE DEVELOPED THIS STRATEGY?

Our organisation has a long-standing track record of recognising the challenges posed by the climate emergency and has already taken significant action to reduce our climate impact by delivering a 44% reduction in scope 1 and 2 emissions by 2020 (from the 2008/09 baseline).

In recent times, our understanding and acknowledgement of the challenge of climate change and need to become more sustainable has increased. In 2019, we declared a climate emergency as a recognition of the severe impacts that global temperature increase above the Paris Agreement target of 1.5°c of global warming could have on global communities and our city-region.

The Greater Manchester Fire & Rescue Service Fire Plan (2021 – 2025) recognises the implications of the climate emergency on the communities of Greater Manchester and the responsibility placed on the organisation to reduce our own environmental impact as well as in responding to incidents such as wide-area flooding and moorland fires.

This sustainability strategy has been developed following in-depth stakeholder engagement and emphasises how our organisation intends to reduce our climate impact and shape how we intend to progress our sustainability ambitions.

We have set a city-region science-based target of becoming carbon neutral by 2038 and our organisation is aligned to this target. This strategy places a focus on immediate carbon reduction and considers our significant sources of direct carbon emissions whilst also acknowledging the need to go further and tackle carbon emissions that occur within our value chain.

Our sustainability strategy recognises that tackling the climate emergency must take consideration of wider sustainability issues – such as the biodiversity emergency – that are heavily interlinked. To support this focus, we have aligned our strategy to the United Nations Sustainable Development Goals (SDGs) which are a universal call to action to end poverty, protect the planet and ensure everyone enjoys peace and prosperity by 2030.

ALIGNING WITH THE UN'S SUSTAINABLE DEVELOPMENT GOALS

By aligning each priority area of our sustainability strategy against the United Nations Sustainable Development Goals (UN SDGs), we aim to ensure that our activity delivers long-term, meaningful sustainability impact.

STRATEGY SCOPE

Our sustainability strategy has been developed to provide a framework for delivering wide-ranging improvement in the sustainability performance of the Greater Manchester Combined Authority and Greater Manchester Fire and Rescue Service, and ensure we progress towards our overarching target of achieving carbon neutrality by 2038. Our strategy covers the core activity of GMCA and GMFRS and all sustainability impacts associated with this activity including:

- Activities delivered, and associated sustainability impacts, from our head offices
- Sustainability impacts arising from the assets operated by, and the activities delivered by Greater Manchester Fire & Rescue Service
- Sustainability impacts arising from activities undertaken and the assets directly operated by GMCA Waste & Resources Team, including closed landfill sites and other land assets

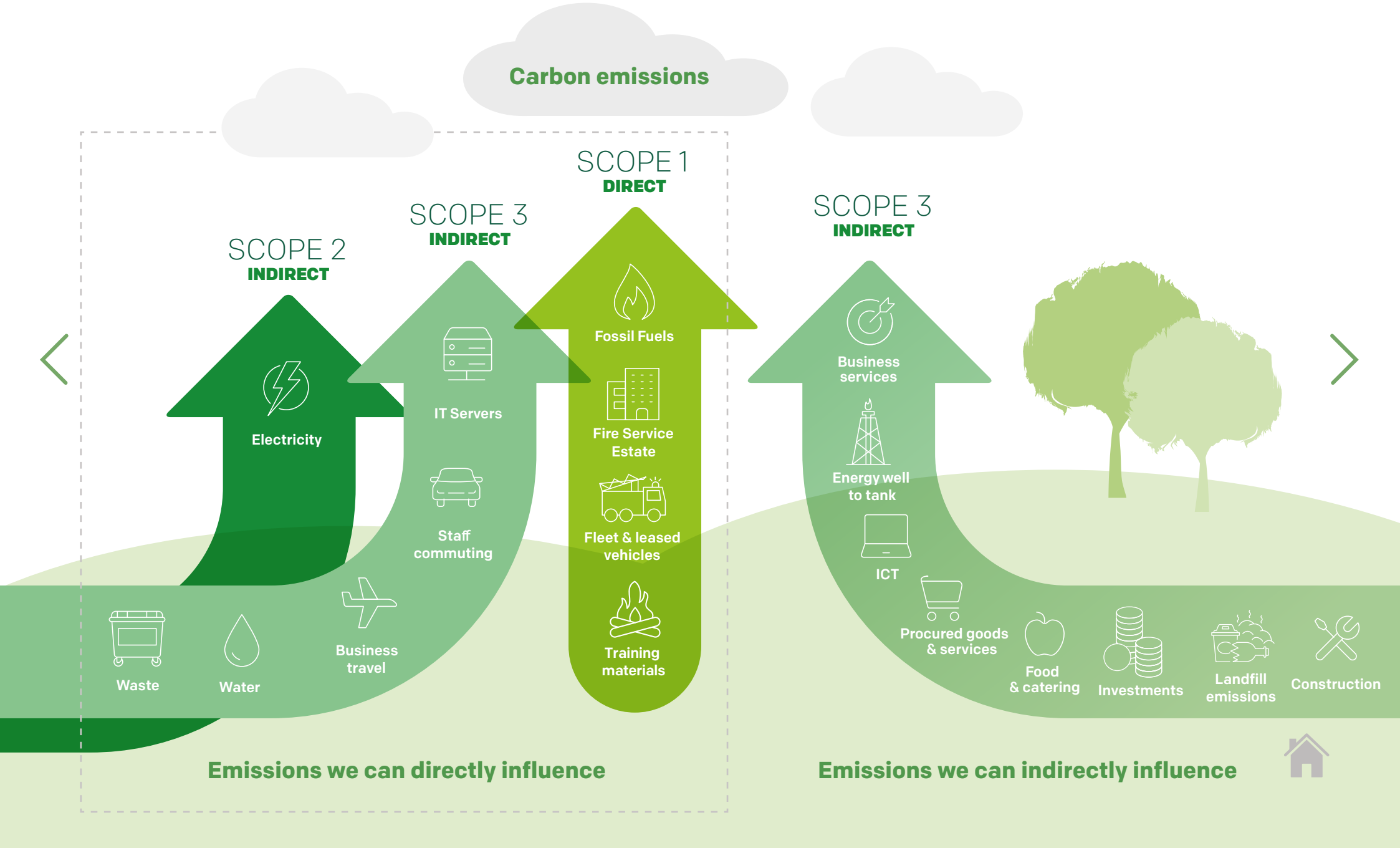
This sustainability strategy does not cover our wider public sector partners and organisations linked to Greater Manchester Combined Authority. However, we recognise our responsibility in being at the forefront of tackling climate change and improving sustainability and this strategy considers how we will work in collaboration with our partners and show leadership to influence sustainability action across the city-region and beyond.

From a carbon perspective, our sustainability strategy places an emphasis on tackling carbon emissions from our activities and assets that we have direct control over, often referred to our scope 1 and scope 2 emissions. These emissions will be measured on an ongoing basis and will be the focus for our target of achieving carbon neutrality by 2038.

We also recognise that our organisational carbon footprint extends beyond scope 1 and scope 2 emissions. Our organisation supports and influences a wide range of activities and services such as investment funds, employee commuting, business travel and procured goods and services. These emissions are known as scope 3 emissions which are emissions that occur within our value chain, over which we have influence but not direct control. Whilst our overarching target of achieving carbon neutrality by 2038 does not cover scope 3 emissions, it is our commitment to start mapping and, where feasible, quantifying these emissions as a means of identifying our high impact areas that require actions to reduce them.

As a recognition of the wider greenhouse gas emissions arising from our assets and activities, our strategy will refer to 'carbon emissions' throughout but our approach is to use this to describe our total greenhouse gas emissions expressed as a 'carbon dioxide equivalent'.

Scope 1, 2 and 3 emissions – an overview



OUR APPROACH

Our climate action strategy sets out our approach to becoming an organisation that leads the way in delivering its own ambition for Greater Manchester's environment. At the heart of this is our overall target of achieving carbon neutrality by 2038.

Our strategy revolves around **five priorities** where will focus our efforts over the next five years.

1. Rapidly reduce our carbon footprint

We will take immediate action to reduce carbon emissions from our day-to-day activity.

2. Protect and restore the environment

We will go beyond our role of protecting the environment and preventing environmental harm by playing our part in tackling the biodiversity crisis.

3. Use our resources efficiently and responsibly

We will embed sustainability principles into how our organisation identifies, manages, and uses our resources.

4. Adapt to a changing climate

We will use our expertise and capabilities to deal with the consequences of the climate crisis now.

5. Be sustainability leaders

We will make sustainability action an organisational priority and work with our communities and partners to inspire long-standing sustainability action.

We will embed action against our sustainability strategy priorities through the implementation of annual sustainability delivery plans which will clearly outline annual activity under each priority area and ensure relevant resourcing and monitoring of this activity takes place.

OUR SUSTAINABILITY FOUNDATIONS

Our approach to progressing sustainability will be built upon three foundations that will enable a holistic approach to the challenge we face.

People

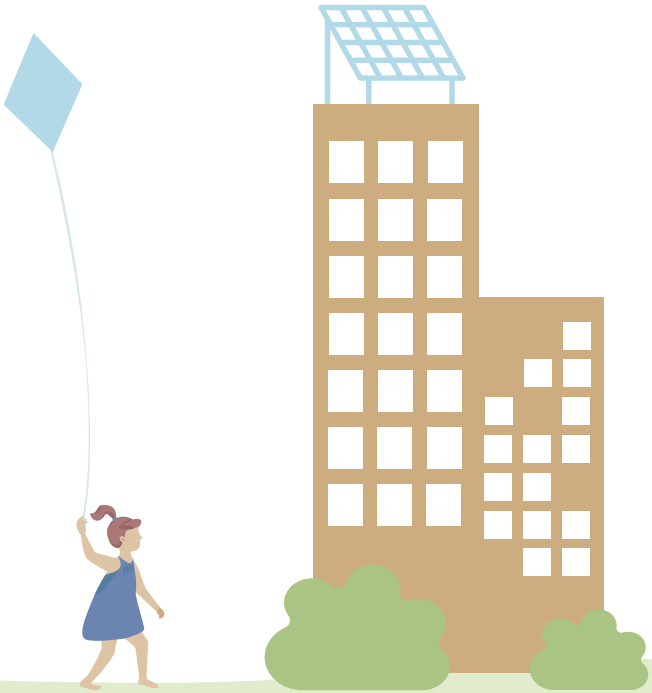
People are the focal point for our sustainability strategy – we will empower our staff to take positive sustainability action whilst we will actively pursue positive climate outcomes to safeguard those most vulnerable to a changing climate here in Greater Manchester

Planet

Environmental degradation continues to pose serious threats to public health - we recognise the role that the planet has in sustaining life and delivering a sustainable future can only happen if we deliver wider improvements for the natural environment

Public Purse

Climate change will undoubtedly impose significant costs on society - we recognise the true costs of a changing climate and will embed the principles of lifecycle thinking to ensure that the decisions we make today are made with the long-term, sustainable future in mind



GMCA GREATER MANCHESTER COMBINED AUTHORITY

GREATER MANCHESTER FIRE AND RESCUE SERVICE

SUSTAINABILITY STRATEGY 2022-2026

An organisation that is leading the way in delivering on its own ambitions for Greater Manchester's environment

OUR PRIORITIES	2026 TARGETS
Rapidly reduce our carbon footprint	Reduce emissions from our buildings and vehicles by 50%
Protect & restore the environment	Fully embed environmental protection into our emergency response activities
Use our resources efficiently & responsibly	Have 80% of our supply chain committed to supporting our carbon neutral target
Adapt to a changing climate	Develop a climate change adaptation strategy based on future risks and opportunities
Be sustainability leaders	Train all our staff in understanding the climate emergency and their role in tackling it

People Planet Public Purse

OUR PRIORITIES

1. Rapidly reduce our carbon footprint

By 2026, we will have reduced our scope 1 and 2 emissions by 50% (from the 2018/19 baseline)

Why is this important?

The science is clear – increasing greenhouse gas emissions are the driving force behind climate change that continues to cause devastating impacts at local, regional, and global levels. The impacts of a changing climate will continue to challenge our organisation by pressuring our emergency response activity whilst equally posing challenges to the delivery of our ambitions laid out within the Greater Manchester Strategy.

What does it mean for us?

Our organisation undertakes a wide range of activities that all contribute to a significant carbon footprint. It is vital that we take immediate action to rapidly reduce our carbon footprint and our approach will place the greenhouse gas management hierarchy at its core to ensure we prioritise eliminating or reducing emissions. We will start by reducing direct emissions that occur from the running of our estate and our fleet of vehicles. Our wide-ranging value chain also has a significant carbon impact and we will develop a greater understanding of our true carbon footprint and implement measures to reduce emissions within this area.

How will we deliver this priority?

Rapidly decarbonising our estate

- Reducing energy wastage by engaging our staff in energy conservation and investing in energy efficiency technologies at GMFRS buildings
- Redeveloping or rebuilding fire stations with an emphasis on carbon reduction and no longer installing fossil fuel heating systems
- Continuing to install renewable generation across the GMFRS estate and, where feasible, installing larger scale systems on surplus land assets within the waste estate portfolio
- Commissioning a power purchase agreement to deliver a fully verifiable carbon neutral energy supply

1. Rapidly reduce our carbon footprint (cont.)

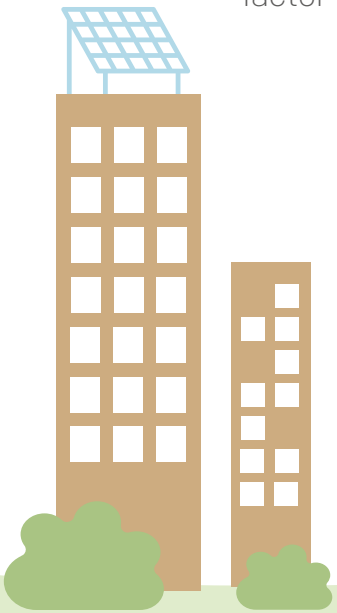
Reducing our emissions from fleet and staff travel

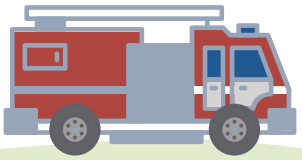
- Investing in electric vehicles for our fleet of support vehicles along with a widespread network of charging infrastructure
- Continuing to invest in modern, more efficient frontline emergency response vehicles
- Working with our supply chain and emergency services partners to identify a viable zero-emission frontline fire appliance
- Implementing modern ways of working and policies to enable our staff to reduce the carbon impacts from business travel

Understanding and reducing value chain emissions

- Scoping our total organisational carbon footprint and increasing our data quality and accuracy to develop a more transparent, in-depth carbon footprint inventory
- Working with our supply chain and wider value chain to identify high carbon impact areas of our value chain and implementing measures to reduce our overall carbon footprint
- Developing a mechanism to assess the carbon impact of future programmes and projects to ensure understanding of potential carbon impact is a key factor within our future activity

Delivering on UN sustainability goals:





2. Protect and restore the environment

By 2026, we will have fully embedded environmental protection into emergency response activity

Why is this important?

Pollution and degradation of natural resources continues to harm ecosystems and destabilise natural cycles that society relies upon. Climate change and pollution are also key contributors to the biodiversity crisis which is leading to losses and depletion of species. Without changes, environmental harm and the biodiversity crisis will lead to long-term, irreversible impacts that will have significant consequences for life on Earth.

What does it mean for us?

Our organisation has a unique relationship with the environment – our emergency response activity can cause environmental harm whilst also proactively delivering actions that can mitigate against some of the most harmful impacts resulting from the incidents we attend. Our links with the environment go beyond emergency response as we also engage in prevention activity that delivers a reduction in incidents occurring and subsequent environmental impacts.

Our wider estate also has significant interactions with the environment that must be effectively managed to ensure instances of pollution are eradicated. We recognise the potential for our estate to contribute towards biodiversity net-gain and natural capital improvements as well as ensuring that these outputs are maximised through our assets, investments, and policies as a way of delivering environmental and wider health and wellbeing benefits.

How will we deliver this priority?

Protecting the environment through emergency response

- Aligning our emergency response environmental protection activity to national operational guidance
- Training and deploying specialist tactical advisors to lead our response to incidents with the most significant and complex environmental impacts including moorland fires and waste site fires
- Investing in specialist resources and capabilities to deal with incidents that have the most significant environmental impacts including moorland fires
- Developing our operational intelligence skills to enable our incident commanders to make more informed decisions to minimise environmental harm from incidents

2. Protect and restore the environment (cont.)

Preventing environmental harm

- Delivering fire prevention activity to reduce the instances of fires across Greater Manchester including specific targeted campaigns aimed at incidents with significant environmental impacts
- Continuing to operate an ISO 14001 certified Environmental Management System to manage environmental aspects from our day-to-day activity
- Effectively managing pollution at our closed landfill sites and reducing the risk of environmentally damaging waste fires through investment in fire detection and suppression technology
- Implementing programmes to support our staff to adopt more sustainable modes of transport and reduce their impact on local air quality

Tackling the biodiversity crisis

- Ensuring redevelopment or new build activity across our estate delivers an overall biodiversity net-gain
- Implementing green space improvements on our estate which facilitate biodiversity benefits as well as wider benefits linked to health & wellbeing
- Working in partnership with community groups and grass roots organisations to further support local biodiversity and natural capital initiatives
- Assessing the impacts on biodiversity from our value chain and investment activity and implementing measures to mitigate negative impacts

Delivering on UN sustainability goals:

3. Use our resources efficiently and responsibly

By 2026, 80% of our supply chain will have a demonstrable commitment to our carbon neutrality target

Why is this important?

Global consumption of natural resources continues to increase and this dependence on resource consumption is leading to overconsumption which is a key contributor to global carbon emissions as well as leading to wider sustainability issues such as labour exploitation. Overconsumption by developed nations is also a key contributor to environmental injustice whereby those who contribute the least to the problem are often those facing the most drastic environmental consequences.

What does it mean for us?

As an organisation that relies upon a wide range of products and services as well as overseeing a wide range of investment activity, we must transition to more responsible modes of consumption and investment. Delivering sustainable procurement will be pivotal in our transition to becoming an organisation that uses resources responsibly whilst also upholding our social responsibility obligations. Day- to-day management of our resources is pivotal and will form the foundations for the delivery of a wide range of sustainability improvements including the embedding of circular economy principles. We also recognise our significant investment activity and embedding sustainability thinking within this activity has the potentially to significantly extend our sustainability ambitions to deliver wider benefits for our city- region.

How will we deliver this priority?

Delivering sustainable procurement

- Creating a sustainable procurement policy to ensure future procurement activity places an emphasis on lifecycle thinking and our sustainability ambitions
- Developing a Social Value Opportunity Assessment Tool to identify and maximise our sustainability and social value outputs from procurement activity
- Engaging our supply chain to gain commitment for our carbon reduction and wider sustainability ambitions
- Assessing our supply chain for significant negative sustainability impacts and implementing action plans to tackle those identified at highest risk

3. Use our resources efficiently and responsibly (cont.)

Managing our resources efficiently

- Developing an understanding of our total waste generation and delivering initiatives that enable the implementation of the waste hierarchy as well as circular economy principles
- Further developing our understanding of our overall consumption of water, including from firefighter training activity, and embedding measures to reduce water wastage and consumption
- Increasing our use of submetering of utilities to facilitate identification of high consumption and implementation of reduction measures
- Mapping our consumption of single use products and making changes to eradicate avoidable single use products from our day-to-day activity

Investing in a responsible manner

- Developing an understanding of the sustainability impacts from our investment activities and embedding sustainability requirements into future investment activity
- Establishing a framework to ensure we only engage in ethical investment activity and progressing divestment from activities linked to fossil fuel extraction
- Embedding our sustainability ambitions into our investment activity to further enable a thriving low carbon sector across the city-region

Delivering on UN sustainability goals:

4. Adapting to a changing climate

By 2026, we will have developed a climate change adaptation strategy based on future risks and opportunities identified

Why is this important?

Climate change has already locked in significant impacts globally and we are already dealing with such impacts in Greater Manchester. From increased flooding to increasing temperatures, our communities continue to face risks posed by a changing climate and these risks continue to impact the most vulnerable members of the communities we serve. Climate change also poses risks to our organisation and will require us to continually assess and understand the level of risk we face to ensure we continue to be a resilient organisation.

What does it mean for us?

Our organisation must continue to be aware of the risks already posed by a changing climate and establish a means of recognising risks that are newly emerging. By assessing the risks posed by a changing climate, we will enable action to be taken to develop our organisational resilience to a changing climate. By becoming a climate resilient organisation, we will be able to continue to effectively deliver our core activities in a changing climate whilst also placing ourselves in a position to effectively support the communities that we serve in becoming more resilient to the challenges and risks posed by a changing climate in Greater Manchester.

How will we deliver this priority?

Identifying risks posed by a changing climate

- Conducting a thorough climate change risk assessment to understand the current and future climate change risks to our organisation and communities
- Developing our understanding of the impacts of previous climate change related incidents and applying any learning to the delivery of core functions during future climate change related incidents
- Ensuring climate change risk is fully recognised as an organisational risk and developing robust risk mitigation measures

Becoming a climate resilient organisation

- Investing in nature-based solutions across our estate to deliver climate change adaptation at a local level in Greater Manchester
- Embedding climate change adaptation measures into our future estates development to ensure our buildings are resilient to the impacts of a changing climate
- Identifying more local and regional supply chains that support our sustainability ambitions but also increase the resilience of the supply chains that our organisation relies upon

4. Adapting to a changing climate (cont.)

Supporting community climate resilience

- Working with multi-agency partners to ensure we are aware of local climate change related risks and effectively support our communities at various phases during extreme weather events
- Developing informative materials for local communities to enable them to prepare for the most significant impacts of a changing climate
- Continuing to actively identify climate change related risks and developing supportive policies and programmes that support local partners in mitigating risks from climate change

Delivering on UN sustainability goals:

5. Be sustainability leaders

By 2026, all of our staff will be trained in understanding the climate emergency and their role in tackling it

Why is this important?

The climate emergency is a challenge that we all face. The impacts of climate change will continue to drive inequalities at global, regional, and local levels, disproportionately impacting the most vulnerable in our society. Tackling the climate emergency cannot be a burden placed on those least able to make change and we recognise our role in being at the forefront of climate action in Greater Manchester. By showing climate leadership in action, we aim to encourage and motivate our partners and communities to make positive changes at the scale required to make long-lasting changes.

What does it mean for us?

Our staff are our most valuable resource and we believe that all staff have the capability to make a positive contribution to our efforts in tackling the climate emergency. We recognise the decisions that we make today will impact upon the future we get tomorrow and our organisation must place sustainability and climate change considerations at the heart of every decision we make as an organisation. Equally, we recognise the influential role that we have within our communities, with our partners and the businesses we engage with meaning we must work together to make long-lasting change that will deliver positive climate outcomes.

How will we deliver this priority?

Empowering our staff

- Effectively communicating our sustainability strategy and enabling our staff to contribute to our sustainability ambitions within their role
- Embedding sustainability understanding within training activity at all levels of the organisation to ensure sustainability plays a central role in our organisational culture
- Establishing a staff network to inform our staff of the latest sustainability issues and empower them to get involved in tackling sustainability issues
- Embedding sustainability responsibilities within our job descriptions and staff personal reflective appraisal process to formally embed sustainability action within our day-to-day activities

5. Be sustainability leaders (cont.)

Responsible decision making

- Conducting an in-depth review of our current decision-making processes to ensure consistency and alignment with our sustainability ambitions
- Utilising our sustainability co-benefits tool to evaluate policies and programmes at development stage and implementing measures to deliver improved environmental and sustainability outcomes
- Developing an internal mechanism for embedding carbon emissions impact into proposal papers to enable decision makers to fully understand the carbon impact of their decisions

Influencing our partners and communities

- Continuing to engage our partners at a regional and national level to share best practice and collaborate on the delivery of sustainability action
- Empowering our local communities by supporting local sustainability initiatives and being champions for climate action
- Becoming advocates for sustainability action and influencing climate action at a local, regional, and national level with an emphasis on protecting those most at risk from a changing climate

Delivering on UN sustainability goals:

GOVERNANCE AND REPORTING

Delivery of the commitments within this strategy will require the sustainability strategy to be fully embedded within our day-to-day activity. We intend to deliver this through the following:

Annual delivery plans

Annual delivery plans built around the five key priorities of our sustainability strategy will ensure robust delivery and evaluation plans along with relevant resources are assigned to each key activity.

ISO 14001 environmental management system

We will embed our sustainability strategy objectives within our ISO 14001 certified environmental management system to ensure delivery and monitoring of strategy priorities becomes entrenched in our day-to-day activity and is supported by senior leadership commitment.

Sustainability strategy steering group

We will establish a sustainability strategy steering group involving key stakeholders who will support in the delivery and monitoring of our sustainability strategy ambitions.

We recognise the important of transparent reporting of our sustainability performance and will embed monitoring and reporting within our ISO 14001 certified environmental management system along with a suite of dedicated reports to support the sustainability strategy:

Monthly key performance indicators

Our monthly KPI reporting framework will report our carbon footprint from scope 1 and scope 2 emissions and track these against our carbon reduction target for 2026.

Sustainability performance report

We will produce a bi-annual sustainability performance report detailing progress against our sustainability strategy commitments including outcomes of projects delivered.

EMS management review

We will deliver an annual EMS management review with our senior leadership teams to ensure they are aware of sustainability strategy progress and are continually influencing our performance.

Carbon footprint report

We will produce an annual carbon footprint report that is transparent on our annual carbon footprint and tracks progress against our targets. We will continue to expand our coverage of emissions to cover a wider range of emissions sources including scope 3 emissions where accurate data is available.

GLOSSARY

Biodiversity	The variety of plant and animal life in the world or a particular habitat, a high level of which is usually considered to be important and desirable
Biodiversity Net-Gain	An approach to development that leaves biodiversity in a better state than before
Carbon Dioxide Equivalent (CO_2e)	Used to express the impact of each different greenhouse gas in terms of the amount of CO_2 that would create the same amount of warming and is the standard unit for measuring carbon footprints
Carbon Neutrality	The stage where the sum of greenhouse gas emissions produced (carbon footprint) is offset by natural carbon sinks and/or carbon credits
CH_4	Chemical formula for methane, a greenhouse gas
Circular Economy	An alternative to a traditional linear economy (take, make, waste) that seeks to reduce waste, recover resources at the end of product life and channel them back into production

Climate Adaptation	The process of adjusting to current or expected climate change and its effects
Climate Change	The long-term alteration of temperature and typical weather patterns in a place
CO_2	Chemical formula for carbon dioxide, a greenhouse gas
Downstream Activities	Outputs associated with the outputs of an organisation
Ecosystem	A geographic area where plants, animals, and other organisms, as well as weather and landscapes, work together to form a network of life
Environmental Degradation	The deterioration of the environment through the depletion of resources
Environmental Management System	A strategic framework that helps an organisation comply with environmental regulations, manage environmental impacts and improve overall business performance

Ethical Investment	An investment strategy where the investor's ethical values are the primary objective, along with good returns
Fire Appliance	A heavy goods road vehicle that transports firefighters and firefighting equipment to an incident
Fossil Fuel	Fuels that are made from decomposing plans and animals which are found in the Earth's crust and contain carbon and hydrogen
Greenhouse Gases	Gases that contribute to global temperature increase by trapping heat in the atmosphere
Greenhouse Gas Management Hierarchy	A framework for the scoping and strategic management of greenhouse gas emissions that ranks options based on the most preferential in respect of least emissions
HFCs	Hydrofluorocarbon, manufactured greenhouse gases for use in refrigeration, air conditioning, aerosols, fire protection, foam blowing and solvents
ISO 14001	The international standard that specifies requirements for an effective environmental management system

Hybrid Working Arrangement	Arrangements in which employees split their time between a workplace such as an office and working remotely
Key Performance Indicators	A quantifiable measure of performance over time for a specific objective
Lifecycle Thinking	A systematic framework that takes a holistic view of the production of consumption of a product or service and assesses impacts on the environment through the entire life cycle
Multi-Agency Partners	Organisations that work in partnership to tackle problems and challenges as well as preventing them from occurring in the first place
National Operational Guidance	The foundation for developing operational policies, procedures, and training for firefighters to deal with incidents effectively and safely
Nature-Based Solutions	The sustainable management and use of natural features and processes to tackle socio-environmental challenges
Natural Capital	Elements of the natural environment which provide valuable good and services to people

Natural Cycles	Natural process in which elements are continuously cycled in various forms between different compartments of the environment
N_2O	Chemical formula for nitrous oxide, a greenhouse gas
NF_3	Chemical formula for nitrogen trifluoride, a greenhouse gas
Overconsumption	A situation where the use of natural resource has exceeded the sustainable capacity of a system
Paris Agreement	An international treaty on climate change, adopted in 2015, that covers climate change mitigation, adaptation, and finance
PFCs	Chemical formula for perfluorocarbons, a group of greenhouse gases
Power Purchase Agreement	A long-term electricity supply agreement between two parties, usually between a power producer and a customer
Renewable Generation	Energy generation systems that generate energy from renewable resources that are naturally replenished

Science Based Target	Targets that provide a clearly defined pathway to reduce greenhouse gas (GHG) emissions, helping prevent the worst impacts of climate change and future-proof business growth
Scope 1 Emissions	Direct greenhouse gas emissions arising from operations that are owned or controlled by the reporting organisation
Scope 2 Emissions	Indirect greenhouse gas emissions arising from the generation of purchased or acquired electricity, steam, heating, or cooling consumed by the reporting organisation
Scope 3 Emissions	Indirect greenhouse gas emissions (not included in scope 2) that occur within the value chain of the reporting organisation, including both upstream and downstream emissions
SF_6	Chemical formula for sulphur hexafluoride, a greenhouse gas
Social Value	The quantification of the relative importance that people place on the changes they experience in their lives
Submetering	Metering arrangements that enable measuring and monitoring of data at a more granular level

Sustainability	Meeting the needs of the present without compromising the ability of future generations to meet their own needs
Sustainable Procurement	The act of adopting social, economic, and environmental factors alongside the typical price and quality considerations into the organisations handling of procurement processes and procedures.
United Nations Sustainable Development Goals	17 goals that are an urgent call for action by all countries in a global partnership that recognise that ending poverty and other deprivation must go hand-in-hand with strategies to improve health and education, reduce inequality, and spur economic growth whilst also tackling climate change and protecting the planet
Upstream Activities	Activities associated with the inputs of an organisation
Value Chain	A full range of activities needed to create a product or deliver a service
Waste Hierarchy	A framework that ranks waste management options according to what is most beneficial for the environment

For more information about our sustainability strategy email:

sustainability@manchesterfire.gov.uk
or greencity@greatermanchester-ca.gov.uk