



Environment, Climate Change and Neighbourhoods Scrutiny Committee

Date: Thursday, 12 October 2023

Time: 2.00 pm

Venue: Council Antechamber, Level 2, Town Hall Extension

This is a **Supplementary Agenda** containing additional information about the business of the meeting that was not available when the agenda was published.

Access to the Antechamber

Public access to the Council Antechamber is on Level 2 of the Town Hall Extension, using the lift or stairs in the lobby of the Mount Street entrance to the Extension.

Filming and broadcast of the meeting

Meetings of the Environment, Climate Change and Neighbourhoods Scrutiny Committee are 'webcast'. These meetings are filmed and broadcast live on the Internet. If you attend this meeting you should be aware that you might be filmed and included in that transmission.

Membership of the Environment, Climate Change and Neighbourhoods Scrutiny Committee

Councillors - Shilton Godwin (Chair), Chohan, Collins, Holt, Ilyas, McCaul, Razaq, Wiest and Wright

Supplementary Agenda

5. **[2.05-2.45] Manchester Climate Change Partnership and Agency - Impact Report 2022-23** 3 - 64
Report of the Director, Manchester Climate Change Agency

This report introduces the attached Manchester Climate Change Partnership (MCCP, the Partnership) and Manchester Climate Change Agency (MCCA, the Agency) Impact Report covering the period April 2022 to March 2023.

The Impact Report provides a concise overview of the activities delivered by the Partnership and Agency in support of the city's climate targets and objectives, as set out in the Manchester Climate Change Framework (2020-25) and its 2022 Update.

Further Information

For help, advice and information about this meeting please contact the Committee Officer:

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This supplementary agenda was issued on **Friday, 6 October 2023** by the Governance and Scrutiny Support Unit, Manchester City Council, Level 2, Town Hall Extension , Manchester M60 2LA

**Manchester City Council
Report for Information**

Report to: Environment, Climate Change and Neighbourhoods Scrutiny Committee – 12 October 2023

Subject: Manchester Climate Change Partnership and Agency – Impact Report 2022-23

Report of: Director, Manchester Climate Change Agency

Summary

This report introduces the attached Manchester Climate Change Partnership (MCCP, the Partnership) and Manchester Climate Change Agency (MCCA, the Agency) Impact Report covering the period April 2022 to March 2023.

The Impact Report provides a concise overview of the activities delivered by the Partnership and Agency in support of the city's climate targets and objectives, as set out in the Manchester Climate Change Framework (2020-25) and its 2022 Update.

Recommendations

The Committee is recommended to consider and comment on the information in the report, noting the contribution of Manchester's Climate Change Partnership and Agency to the city's climate change goals.

Wards Affected: All

Environmental Impact Assessment - the impact of the issues addressed in this report on achieving the zero-carbon target for the city

Manchester's Climate Change Partnership (MCCP) and Manchester's Climate Change Agency (MCCA) are responsible for setting the city's high-level climate change targets – these are contained within The Manchester Climate Change Framework 2020-25, and its 2022 Update, which can be found at:

www.manchesterclimate.com/content/2022-update

MCCP and MCCA are also responsible for tracking the city's progress towards these targets (see reports going back to 2013 here: www.manchesterclimate.com/annual-emissions and a report this committee in May 2023 here: [Agenda for Environment, Climate Change and Neighbourhoods Scrutiny Committee on Thursday, 25th May, 2023, 2.00 pm \(manchester.gov.uk\)](#)).

In addition, MCCP and MCCA are tasked with working collaboratively to catalyse positive climate action. The Impact Report attached to the report sets out recent activity aligned to this broad goal. It can be accessed here:

www.manchesterclimate.com/Impact-Reports

Equality, Diversity and Inclusion - the impact of the issues addressed in this report in meeting our Public Sector Equality Duty and broader equality commitments

Manchester's Climate Change Framework is underpinned by the principle of a Just Transition to a zero carbon, climate resilient city. It calls for the city to ensure that all of Manchester's residents are protected from the impact of climate change, that actions to help the transition do not have a negative impact on the most vulnerable people, and that the costs do not fall unevenly on those that are least able to afford them.

Manchester Strategy outcomes	Summary of how this report aligns to the OMS/Contribution to the Strategy
A thriving and sustainable city: supporting a diverse and distinctive economy that creates jobs and opportunities	<p>MCCP and MCCA are responsible for setting the city's high-level climate change targets – these are contained within The Manchester Climate Change Framework 2020-25, and its 2022 Update.</p> <p>They are aligned to the OMS outcomes, in particular the zero carbon city priority.</p> <p>This report, and its attachment, describes the actions of MCCP and MCCA between April 2022 and March 2023 that catalyse, convene and deliver climate actions in support of the OMS and Framework objectives and targets.</p>
A highly skilled city: world class and home grown talent sustaining the city's economic success	
A progressive and equitable city: making a positive contribution by unlocking the potential of our communities	
A liveable and low carbon city: a destination of choice to live, visit, work	
A connected city: world class infrastructure and connectivity to drive growth	

Full details are in the body of the report, along with any implications for:

- Equal Opportunities Policy
- Risk Management
- Legal Considerations

Financial Consequences – Revenue

None. This report describes activity that MCCP and MCCA delivered in 2022-23.

Financial Consequences – Capital

None. This report describes activity that MCCP and MCCA delivered in 2022-23.

Contact Officers:

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Position: Director of Manchester Climate Change Agency
E-mail: samantha.nicholson@manchesterclimate.com

Name: Michael Wilton
Position: Chair of Manchester Climate Change Partnership
E-mail: Michael.wilton@arup.com

Background documents (available for public inspection):

The following documents disclose important facts on which the report is based and have been relied upon in preparing the report. Copies of the background documents are available up to 4 years after the date of the meeting. If you would like a copy please contact one of the contact officers above.

- 2022 Update of Manchester's Climate Change Framework 2020-2025: www.manchesterclimate.com/content/2022-update
- Manchester Climate Change Partnership and Manchester Climate Change Agency Impact Report 2022-23 www.manchesterclimate.com/Impact-Reports

1.0 Introduction

- 1.1 This report introduces the attached Manchester Climate Change Partnership (MCCP, the Partnership) and Manchester Climate Change Agency (MCCA, the Agency) Impact Report covering the period April 2022 to March 2023.
- 1.2 The Impact Report provides a concise overview of the activities delivered by the Partnership and Agency in support of the city's climate targets and objectives, as set out in the Manchester Climate Change Framework (2020-25) and its 2022 Update.
- 1.3 The annual update on Manchester's CO2 emissions is delivered in a separate report, due to be published in October 2023.
- 1.4 An update on wider actions being delivered across the city in support of Manchester's climate change targets and the recommended actions included in the city's Climate Change Framework, and on the challenges of accessing, assuring, and presenting meaningful data to track progress, was provided to this Committee in May 2023.

2.0 Background

- 2.1 Manchester Climate Change Agency was established in 2015 and Manchester Climate Change Partnership in 2018. Manchester City Council is a member of the Partnership and sits on the Partnership Board.
- 2.2 Together, the Partnership and Agency are responsible for setting the city's high-level climate change targets – these are contained within the Manchester Climate Change Framework 2020-25, and its 2022 Update, which can be found at: www.manchesterclimate.com/content/2022-update.
- 2.3 They are also responsible for tracking the city's progress towards these targets and publish annual 'Emissions Reports', which can be accessed going back to 2013 here: www.manchesterclimate.com/annual-emissions.
- 2.4 They also provided a report this committee in May 2023 which provided an update on wider actions being delivered across the city in support of Manchester's climate change targets and the recommended actions included in the city's Climate Change Framework, and on the challenges of accessing, assuring, and presenting meaningful data to track progress. It can be accessed here: [Agenda for Environment, Climate Change and Neighbourhoods Scrutiny Committee on Thursday, 25th May, 2023, 2.00 pm \(manchester.gov.uk\)](#)

3.0 Purpose and Structure of the MCCP and MCCA Impact Report

- 3.1 This is a new report to help bring to life the work of Manchester's Climate Change Partnership and Agency which supports the city in setting, tracking, and meeting its climate change goals.

- 3.2 The report is introduced by Mike Wilton, Chair of the Partnership Board and Agency Board of Directors, and Councillor Rawlins, Executive Member for Environment and Transport at Manchester City Council and member of the Partnership Board. The Council's City Treasurer and Deputy Chief Executive, Carol Culley, is also a member of the MCCP Board.
- 3.3 The report is broadly divided into two sections: one which describes the Partnership and the activities and impacts it has delivered in the year; and one which describes the Agency and the activities and impacts it has delivered in the year.

4.0 Manchester Climate Change Partnership – Overview

- 4.1 The Partnership brings together organisations from across the city's public, private, and voluntary sectors that share the common goal of achieving the objectives and targets set out in the Manchester Climate Change Framework.
- 4.2 The Partnership has 24 core members, representing 80 organisations in 15 different sectors with 45,000 employees and £3bn turnover.
- 4.3 Partnership members commit to take urgent action within the scope of their own activities and to work collaboratively to help other to take urgent action.
- 4.4 The aim of the Partnership is to work with Agency, City Council, communities, and other partners to ensure Manchester develops and successfully implements climate change targets aligned to the latest science and built on the diverse views of the city's stakeholders.
- 4.5 The Partnership's objectives are to champion delivery of climate action, raising awareness and promoting the need for urgent and sustained action; work collaboratively to mobilise action; provide evidence based and transparent reports on the city's progress; and aspire to establish Manchester as a world class city for action on climate change.
- 4.6 The report describes the Partnership's governance via the MCCP Board and sets out in a diagram the key activities delivered by the Partnership, both of which are supported by MCCA, before going into each in more detail.

5.0 Manchester Climate Change Partnership – Key Activities

- 5.1 The 2022 Update to Manchester's Climate Change Framework. This developed a detailed set of targets to help the city halve its direct emissions from buildings and transport, and a set of recommended actions to guide local businesses, organisations, community groups, individuals, and the local authority to make impactful changes that help the city meet its climate goals.
- 5.2 The 2022 Emissions Report. This enables the city to track its progress towards its targets by publishing annual analysis of the latest UK Government data on direct emissions.

- 5.3 The two City Challenge groups. These were established to bring the expertise and capacity of local stakeholders to bear on complex climate challenges. One focused on developing stretching targets for the Local Plan to increase net zero standards in new buildings, and one focused on increasing the retrofit of commercial buildings across Greater Manchester.
- 5.4 Peer to Peer learning between Partnership members. These facilitate open sharing on organisational decarbonisation and have focused on setting science-based targets and implementing sustainable procurement.
- 5.5 The Virtual Communication Team. This was established to pool the expertise and resources of Partnership members to support the development of a city-wide communications campaign on climate.
- 5.6 The Advisory Groups on Zero Carbon, Adaptation and Resilience, and Health, Wellbeing and Climate. These provide independent expertise including on the city's emissions data, the Met Office's climate projections and Making Manchester Fairer.
- 5.7 Quarterly Partnership meetings. These provide opportunities for members to share knowledge and experience, hear from external speakers, discuss complex climate issues, and develop ideas for new initiatives.
- 5.8 Youth Climate Change Partnership. This gives young people the opportunity to join in the climate conversation by feeding into Partnership activities.
- 5.9 Best practice across the Partnership. This provides highlights of the member survey showing the scale of climate action being delivered, and nineteen case studies illustrating the variety of climate action underway, from energy efficiency to renewables, from electric vehicles to sustainable procurement and beyond.
- 6.0 Manchester Climate Change Agency – Overview**
- 6.1 Manchester Climate Change Agency is a not-for-profit Community Interest Company (CIC) with an independent Board of Directors that provide strategic governance and oversight to the Agency's activities.
- 6.2 The Agency's objective is to deliver activities that support, encourage, and enable individuals and organisations, across Manchester and beyond, to take action on climate change.
- 6.3 The Agency's strategic priorities are to help Manchester to: set the right strategy and targets and understand its progress towards them; take action, learn from others and build on best practice; support an inclusive, just transition to a net zero, climate resilient city; position the city as a climate leader; ensure an active and engaged Climate Change Partnership.
- 6.4 The Agency is a Gold Carbon Literate Organisation.

- 6.5 The Agency secured £2.7m in grant funding for climate action in Manchester in the period of the report.
- 6.6 The report describes the Agency's governance via the CIC Board and sets out in a diagram the key activities delivered by the Agency, including catalysing Partnership activity and support Manchester City Council's and Greater Manchester Combined Authority's climate action, before going into each in more detail.

7.0 Manchester Climate Change Agency – Key Activities

- 7.1 In Our Nature. This is a community climate programme led by the Agency and delivered by the Agency, Hubbub, Groundwork, Amity, and the Tyndall Centre, with connections into the City Council's Neighbourhoods Team.
- 7.2 Adaptation to climate change. This included publication of new guidance and case studies on resilience, and work with the Met Office on local future climate projections and how extreme heat may impact Manchester.
- 7.3 Health, wellbeing, and climate. This supported the development of the climate change theme and associated actions within the Council's Making Manchester Fairer strategy.
- 7.4 Financing the transition to net zero. This provided technical advice to the design of a feasibility study and securing funding from Innovate UK to help Manchester explore novel ways to fund climate action.
- 7.5 European projects. This included delivery within four collaborative programmes covering nature-based solutions, food and young people, science-based targets in cities, and renewable energy.
- 7.6 International collaboration. This involved working alongside CDP, C40 Cities, and WBCSD as part of their City Business Climate Alliance initiative, to bring learning from other cities to Manchester.
- 7.7 Positioning Manchester. This involved securing an A List rating for Manchester from CDP for the climate action delivered by the Partnership and its members, Agency, and City Council.

8.0 Recommendations

- 8.1 The Committee is recommended to consider and comment on the information in the report, noting the contribution of Manchester's Climate Change Partnership and Agency to the city's climate change goals.

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MANCHESTER CLIMATE CHANGE PARTNERSHIP + MANCHESTER CLIMATE CHANGE AGENCY

APRIL 2022 - MARCH 2023





MIKE WILTON
Chair of the Manchester Climate Change Partnership and Manchester Climate Change Agency Community Interest Company.

Director and Manchester Office Leader, Arup.

“It’s been a transformative year for the Partnership and Agency, and one which shows how working in collaboration can accelerate positive climate action.

Together, they have convened a large number of local stakeholders to donate their time and expertise, and catalysed a range of new initiatives that support the city’s ambition to become a green, net zero, climate resilient city.

These are the focus of this report, along with a showcase of the excellent work being done by individual Partnership members, and a celebration of Manchester’s A list rating from CDP which reflects the ambitious and transparent way the city is addressing climate change.

Despite this recognition and the positive progress our city has made, the 2022 Update to Manchester’s Climate Change Framework issued a clear call for urgent action at scale from all parts of our city and we recognise there is much more to be done, if Manchester is to achieve its climate change targets.

Our goal, for the Partnership and Agency, is to continue to champion the great work being delivered across the city and to catalyse new initiatives that are inclusive and support, encourage, and enable more organisations and individuals to act on climate change.”



CLLR TRACEY RAWLINS
Executive Member for Environment, Manchester City Council.

“The work of both the Manchester Climate Change Agency and Partnership has helped position Manchester as a leading city on climate action.

As a proud member of the Partnership, Manchester City Council is on track to become zero carbon by 2038 or earlier. But while there is a great deal of good work going on, we know the city as a whole is not currently on track to meet its targets and we collectively need to do more.

The Partnership brings together diverse voices and organisations which are leading by example and playing a key role which is detailed in the following pages.

However, the climate emergency demands urgent action from everyone, and we all need to act.”

INTRODUCTION

Page 4. Key achievements

Page 5. Who's involved

MANCHESTER CLIMATE CHANGE PARTNERSHIP

Page 6-7. The Manchester Climate Change Partnership

Page 8. New members

Page 9. What does the Partnership do

Page 10. Governance of the Partnership and working with the Agency

Page 11-12. The Manchester Climate Change Framework - 2022 Update

Page 13. 2022 Annual Emissions Report

Page 14-15. City Challenges

Page 16. Peer to Peer learning and Virtual teams

Page 17. Advisory groups

Page 18. Partnership networking

Page 19. Manchester Climate Change Youth Partnership

Page 20-40. Member survey and examples of best practice

MANCHESTER CLIMATE CHANGE AGENCY

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Page 49. Health, Wellbeing and Climate Change

Page 50. Innovate UK Net Zero Living: Pathfinder Places

Page 51-52. International best practice

Page 53. Positioning Manchester as a climate leader

Page 54. Closing remarks

KEY ACHIEVEMENTS OF THE PARTNERSHIP AND AGENCY

Manchester is a city that takes the climate crisis seriously and understands the wider benefits that climate action brings. Manchester Climate Change Partnership and Manchester Climate Change Agency work together to lead by example, champion excellence, collaborate to amplify impact, and innovate to accelerate the transition to a zero carbon, climate resilient city,

Page 14

80
ORGANISATIONS INVOLVED IN THE PARTNERSHIP

373
CLIMATE REDUCTION ACTIONS TAKEN BY PARTNERSHIP MEMBERS

6,000
CARBON LITERATE RESIDENTS

A LIST
RATING FOR MANCHESTER SECURED FROM CDP

4,700
INDIVIDUALS ENGAGED IN CLIMATE ACTION

29
NEW ORGANISATIONS INVOLVED IN PARTNERSHIP INITIATIVES

£2.7m
GRANT FUNDING SECURED

27
PROGRAMMES AND INITIATIVES LED OR SUPPORTED

£200,000
INVESTED IN COMMUNITIES

100%
OF MEMBERS HAVE COMMITTED TO REACH NET ZERO CARBON

Appendix 4, Item 5

MANCHESTER CLIMATE CHANGE AGENCY + MANCHESTER CLIMATE CHANGE PARTNERSHIP

SHARED ACTION FOR OUR ZERO CARBON CITY



MANCHESTER CLIMATE CHANGE PARTNERSHIP BOARD*



Mike Wilton,
Arup



Carol Culley,
Manchester
City Council



Cllr Tracey
Rawlins,
Manchester
City Council



Prof. Liz Price
Manchester
Metropolitan
University



Matt Roberts
Southway
Housing
Trust



Dean Rogers
Govender,
Manchester
Cathedral



Jessica
Bowles,
Bruntwood



Mike Wilton,
Arup



Arushi
Chopra,
SYSTEMIQ
Ltd



Azhar
Quaiyoom,
Qsustain



Billie
Owolabi,
Rathbones



Katy Phillips,
DWF

MANCHESTER CLIMATE CHANGE PARTNERSHIP *board members are also part of the wider partnership



Andrew
Bryers, Lyreco



David Coleman,
The Carbon
Literacy
Project



Elaine
Unegbu, Age
Friendly
Manchester



Hannah
Smith-Pickup,
Deloitte



Heath
Mansell,
Wates



Jonny Sadler,
Electricity
North West
Ltd



Mark Jones,
THG



Michael
Percival,
Deloitte



Sam
Nicholson,
Director



Jane
Houldsworth,
Deputy
Director



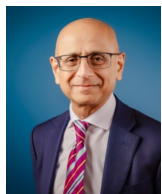
Anna Bond,
Deputy
Director



Ellie Bradley,
Programme &
Partnerships
Manager



Dr Murugesan
Raja,
Manchester
Health and
Wellbeing
Board



Prof. Nalin
Thakkar,
University of
Manchester



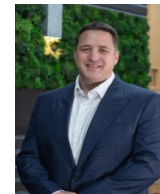
Neil
Robinson,
Manchester
Airports
Group



Pete
Bradshaw,
Manchester
City Football
Club



Phil Marsden,
Muse



Richard
Bousfield,
Hurstwood
Asset
Management



Ruth Jackson,
RJP Town
Planners



Simon
Curtis,
GMAST



Dr. Kat Lowe,
Programme &
Partnerships
Manager



Sophie
Jones,
Engagement
Officer



Katy Haskell,
Project
Support
Officer



Ellie Sherlock,
Communications
Officer

MANCHESTER CLIMATE CHANGE PARTNERSHIP

Manchester Climate Change Partnership brings together organisations from across the city's public, private, and voluntary sectors that share the common goal of achieving the ambitious objectives and targets set out in the Manchester Climate Change Framework 2020-2025.

Partnership members commit to:

- Take urgent action within the scope of their own activities, and
- work collaboratively to help others in the wider Manchester community and economy to take urgent action.

The aim of the Partnership is to:

- Work with Manchester Climate Change Agency, Manchester communities, Manchester City Council and other relevant partners to ensure that the city develops and successfully implements a climate change strategy which is aligned with the latest science and built on the diverse views of the city's stakeholders.

The Partnership's objectives are to:

- Champion delivery of climate action, raising awareness and promoting the need for urgent and sustained action.
- Initiate action by engaging, convening and influencing relevant partners and networks.
- Work collaboratively to mobilise action.
- Provide evidence based and transparent reports on the city's progress.
- Aspire to establish Manchester as a world class city for action on climate change.

24
MEMBERS

80
**ORGANISATIONS
REPRESENTED**

15
SECTORS

45,000
EMPLOYEES

£3bn
TURNOVER

MANCHESTER CLIMATE CHANGE AGENCY + MANCHESTER CLIMATE CHANGE PARTNERSHIP

SHARED ACTION FOR
OUR ZERO CARBON CITY



MEMBERS OF THE PARTNERSHIP

The Partnership includes 24 members, representing 80 organisations with 45,000 employees, from 15 sectors. Collectively, this membership brings together voices from across the city to champion climate action. New members are always welcome.

TO JOIN THE PARTNERSHIP, VISIT: www.manchesterclimate.com/content/join-MCCP



WELCOME TO NEW MEMBERS OF THE PARTNERSHIP

“At RJP Town Planners, sustainability is at the heart of our work and drives our mindset and shapes our values as a team. We joined the Partnership to improve our understanding of what is happening in Manchester and find out how we can help make a meaningful contribution to a sustainable future for our home city. As a busy consultancy team, without any specific buildings or projects of our own to implement, being engaged with a partnership structure which includes other development professionals, policy makers, and asset owners, gives us the chance to both learn and influence. This also helps to inform our work across the UK.”

Ruth Jackson, Practice Director, RJP Town Planners

“Muse is delighted to be part of the Manchester Climate Change Partnership, working with other members to try and accelerate climate action in Manchester. We joined the partnership to share our learnings, but also to gain insight as to how others are addressing climate change and reducing carbon within their organisations. We firmly believe that we need to be honest and transparent about our progress and being involved in a group of like-minded organisations means we can all look to improve and do better. We must all do our part, but coming together in partnership is so much more powerful and will enable brighter futures for all.”

Phil Marsden, Director of Project Management – North West, Muse

“Hurstwood Asset Management is a property asset management company that partners with commercial property investors and corporate occupiers to help improve their commercial property investments or premises, particularly around energy performance and ESG. Commercial property is a significant contributor to CO₂, and so working with Manchester Climate Change Partnership was the obvious decision to enhance our offering and to learn from others in the space. The Manchester city centre office market, in particular, requires action by both landlords and tenants to deliver cost effective solutions, to enhance the energy performance of buildings to meet the forthcoming MEES standards (min EPC B). The Partnership has a number of members seeking to collaborate to find entrepreneurial solutions to achieve the goal of reducing CO₂ and we found that very appealing. We hope that sharing our ideas and experiences will help deliver better solutions quicker.”

Richard Bousfield, Investment Director, Hurstwood Asset Management

“Lyreco is excited to be a new member of the Manchester Climate Change Partnership. Tackling the climate crisis requires all to work together; residential, commercial, private, and public sector. We are at a critical time in the Earth's History, and only a combined effort will help mitigate against climate change. Lyreco saw the great work that the Partnership is doing and with us having two regional distribution centres in Manchester, as well as employing several colleagues in the area, we wanted to support the Partnership where we could. The partnership will lead to our ongoing support in the region and will also provide an opportunity to learn and network with others who are also strongly committed in this area.”

Andrew Bryers, Head of Sustainability, Lyreco

WHAT DOES THE PARTNERSHIP DO

The Partnership engages with its members and wider stakeholders via a suite of activities and initiatives that support Manchester's transition to a zero carbon, climate resilient city.

This diverse offer provides a broad opportunity for all to contribute in an impactful way that best suits their expertise, capacity and interests whilst also delivering benefit to their own organisation, members or sector.

The diagram to the right shows the key types of activity that Manchester Climate Change Partnership delivers with support from Manchester Climate Change Agency and includes:

- Page 19
- **Setting the city's climate change targets and strategy** via the Manchester Climate Change Framework.
 - **Tracking the city's progress** towards its climate change goals via reporting, for example the annual emissions report.
 - Bringing people together to tackle complex **City Challenges** that cannot be solved by a single entity.
 - Accelerating organisational change through **Peer to Peer learning, Networking and Member Surveys**.
 - Leveraging capacity from members to support project delivery via **Virtual Teams** and accessing independent technical guidance via **Advisory Groups**.
 - Giving a voice to young people via the **Youth Climate Change Partnership**.

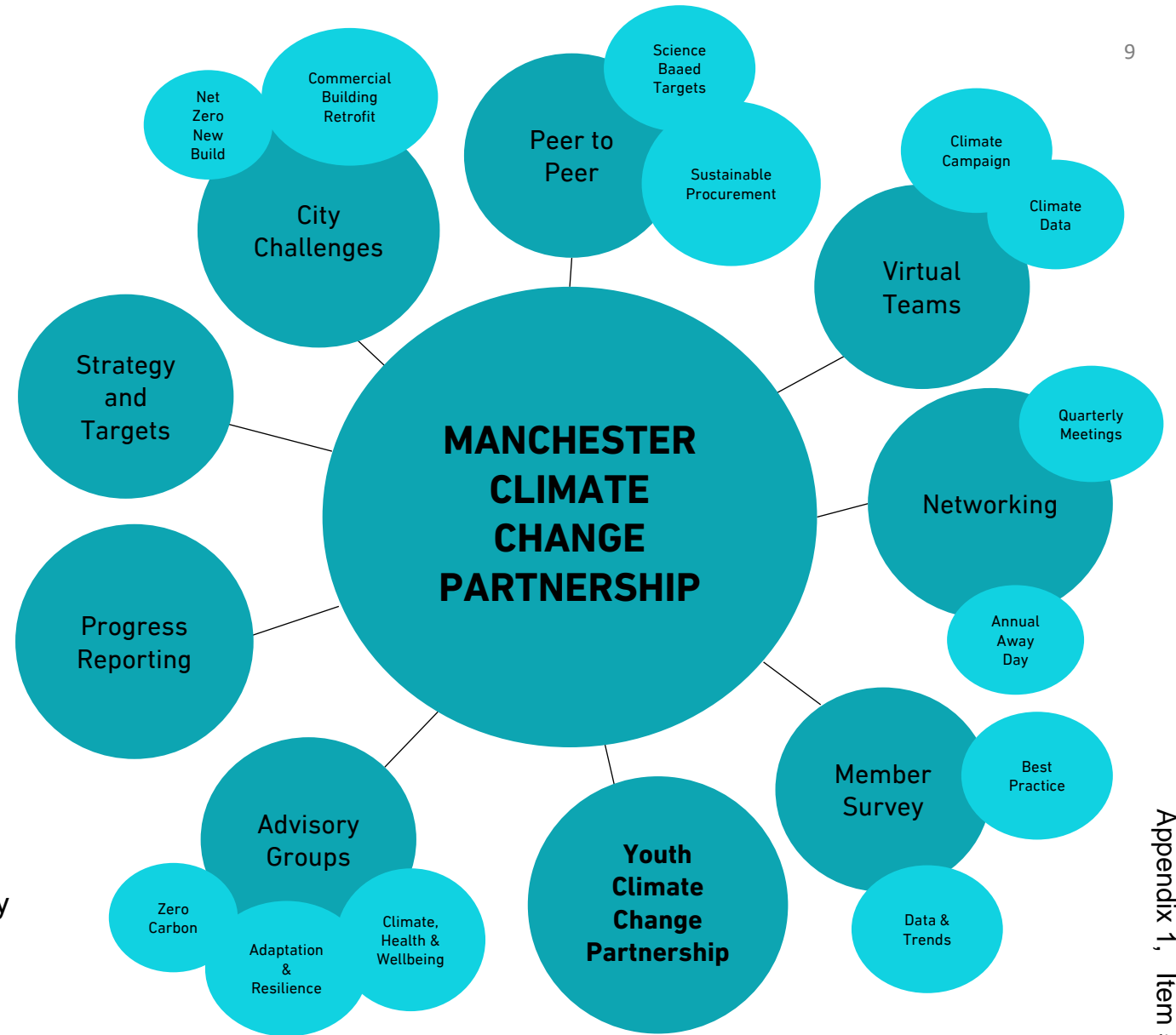


Figure 1: a diagram to provide an overview of the impact of the Manchester Climate Change Partnership and its key outputs.

GOVERNANCE OF THE PARTNERSHIP AND WORKING WITH THE AGENCY

The Manchester Climate Change Partnership (MCCP) Board provides strategic direction for the Partnership and is supported by the Agency (MCCA) in carrying out this duty (as shown in Figure 2).

MCCP Board members come from the wider Partnership and the Chair is appointed through a public application process.

The Board meet eight times each year and the wider Partnership meets quarterly.

The Partnership works closely with the Agency, using their expertise and capacity to mobilise action. Between 2022 and 2023 the Agency supported the Partnership by:

- Leading an update of the city's climate change strategy and targets (the **Framework**).
- Coordinating the production of the city's **Annual Emissions Report** and the work of the three **Advisory Groups**.
- Launching two **City Challenges** and convening stakeholders to deliver them.
- Organising two specialist **Peer to Peer** groups and creating a **virtual communications team**.
- Collating climate data from members to support the design of **Partnership initiatives**.
- Coordinating the **Youth Partnership**.

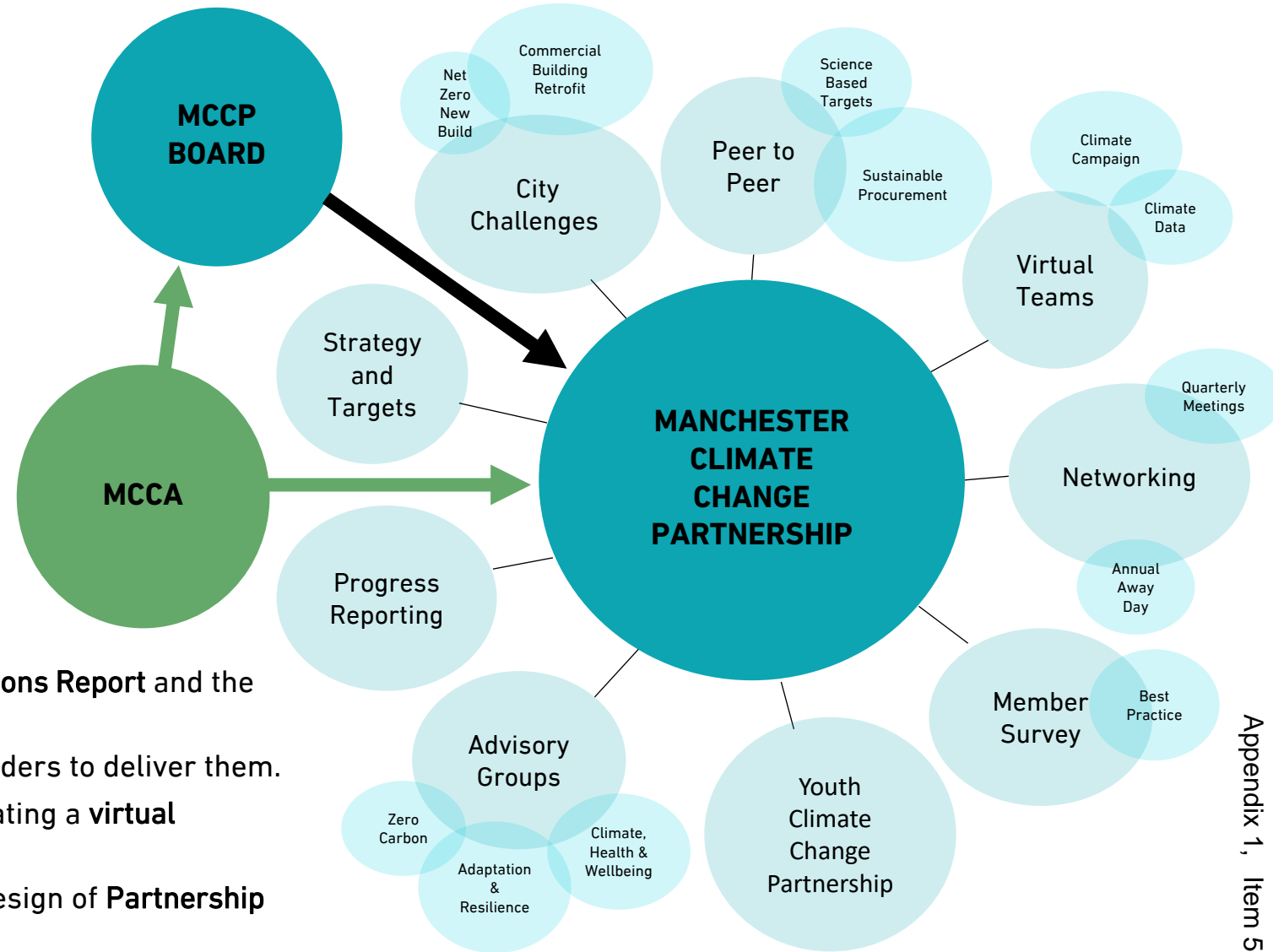


Figure 2: a diagram to show how the MCCP Board provides strategic direction for the Partnership and is supported by the Agency.

2022 UPDATE TO THE MANCHESTER CLIMATE CHANGE FRAMEWORK (2020-25)

A key output from the Partnership and Agency in 2022 was the Update of Manchester’s Climate Change Framework.

The original five-year Framework, published in 2020, set a science-based target for the city to reach zero carbon by 2038 and created a carbon budget for the period which reduced at 13% each year, with a first milestone for Manchester to halve its direct, energy related emissions by 2025. The 2022 Update was a response to the city not being on track to stay within its carbon budget by 2025 and aimed to provide more detailed targets for different sectors and different types of energy use in buildings and ground transport to help guide increased action. We achieved this by working with Anthesis and using their SCATTER tool to model the different pathways of emission reductions needed to achieve a 50% reduction in emissions.

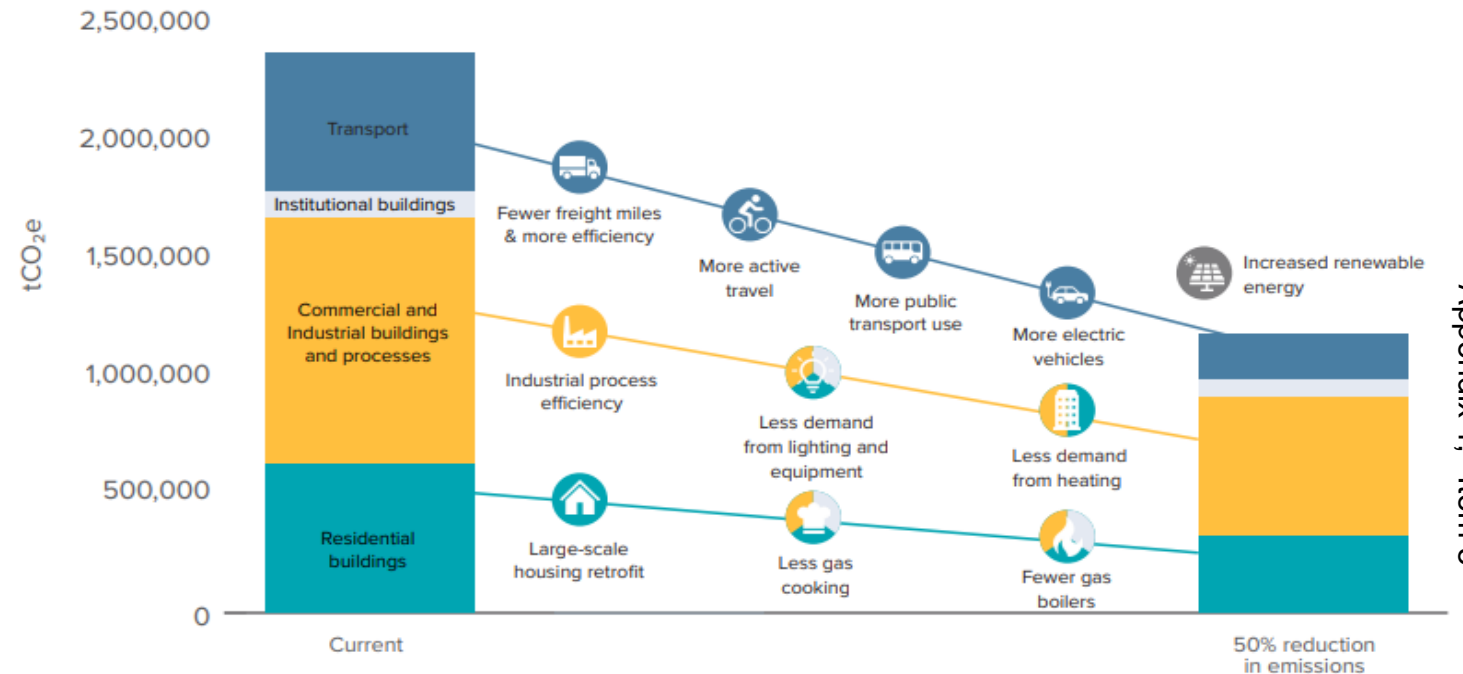


FRAMEWORK UPDATE TARGETS

The targets below show the scale of action needed to reduce the city’s emissions by 50%:

- Over 84,000 homes to be retrofitted.
- 21% reduction in energy demand from domestic heating and hot water.
- 39% of homes to switch from gas heating to electric heat pumps.
- 61% reduction in overall energy demand from commercial premises.
- 58% reduction in overall energy demand from industrial buildings and processes.
- 20% of journeys to be made by public transport.
- 20% of journeys to be made by active travel – walking/wheeling or cycling.

Figure 3: shows the key changes needed to reduce Manchester’s direct, energy-related emissions by 50%.



Alongside the targets for reducing our emissions by 50%, the Update included a suite of 175 Recommended Actions that were co-designed with stakeholders from across the city, Partnership members and communities that had been involved in the Climate Assemblies of 2021.

These were organised into four categories (as shown in Figure 4), reflecting where direct control for implementing the actions lies:

1. What we can do **locally**
2. What we should do in partnership at **city region level**
3. What we need to advocate for **national government** to do
4. Where we can **innovate**

The local actions were designed to guide and inspire local businesses, voluntary sector organisations, community groups, individuals and the local authority to make impactful changes that help the city meet its climate goals.

The Update also highlighted **local success stories** and the **co-benefits** of climate action, alongside the latest policy drivers and barriers which need to be understood to deploy effective solutions.

The need for a **fair and just transition** to net zero was kept as an underpinning principle of the Framework, in particular referencing the cost-of-living crisis.



Figure 4: categories

TO READ THE UPDATED FRAMEWORK, VISIT:

www.manchesterclimate.com/content/2022-update

FIVE KEY MESSAGES FROM THE FRAMEWORK

- Urgent action is needed to reduce direct emissions from our buildings and ground transport, and to increase renewable energy generation, if Manchester is to stay within its carbon budget.
- Decisive action is needed to assess the city's vulnerability to climate change and to ensure we are adapting our infrastructure, buildings, economy, and residents to be resilient to a changing climate.
- Everyone has a role to play – individuals, organisations, local and national government – and there is a great deal we have the power to achieve locally, if we work collaboratively.
- The costs of transitioning to a zero carbon, climate resilient city cannot be borne solely by the public purse, so we need to find innovative ways to unlock private finance investment.
- Tackling the climate crisis brings opportunities to deliver wider strategic ambitions including improving people's health, reducing fuel and food poverty, creating new jobs and economic growth, and delivering a greener city for everyone.

2022 ANNUAL EMISSIONS REPORT

The Agency has produced annual reports for Manchester since 2015, helping the city to track its progress against its climate change ambitions and targets.

A key function of the reports is to set out the latest direct, energy-related emissions from the city and to show how these are changing over time.

The emissions data is produced by the UK Government and has a two-year time lag. Technical analysis is provided by the Zero Carbon Advisory Group.

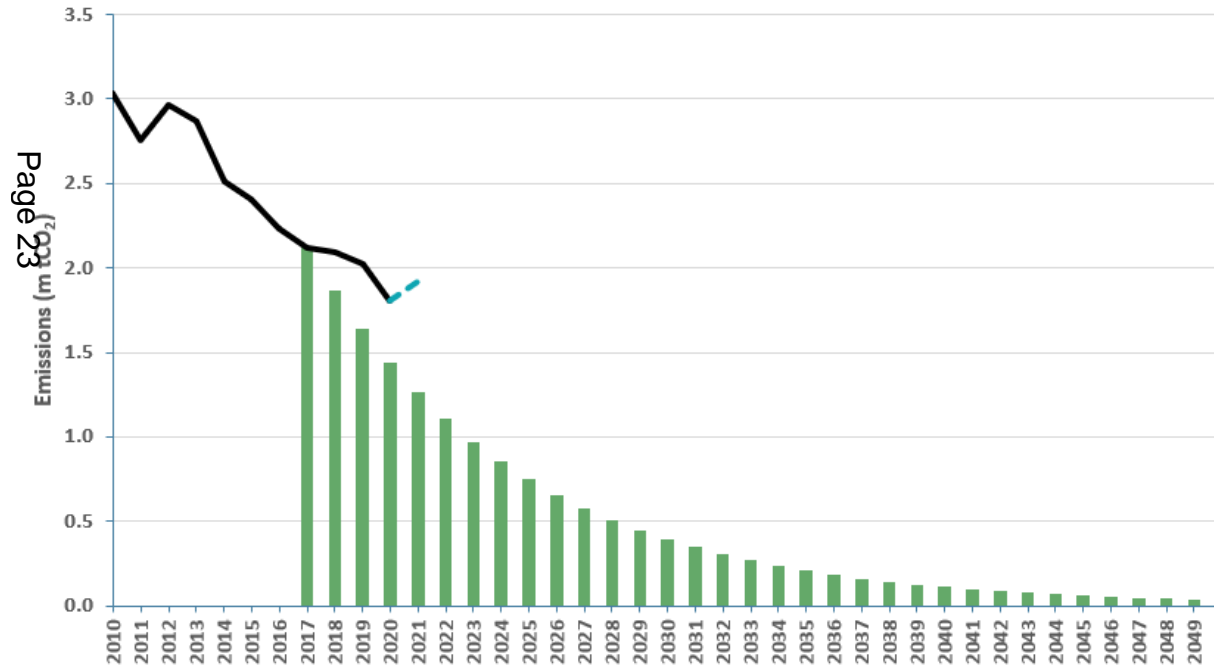


Figure 5: shows a downward trend in the city’s emissions (shown in black) but an increasing gap from the carbon budget target (shown in green).



The most recent data on Manchester’s direct, energy-related emissions shows that, from 2005-2020, they reduced by 41%.

In 2018, they reduced by 2% and in 2019 by 4%.

During the lockdowns of 2020, they reduced by 12%.

Despite this positive progress, the rate of reduction is yet to meet the targeted 13% per year reduction.

In addition to this, the Tyndall Centre has estimated that a 6% increase in emissions will be seen in the 2021 data as the city starts to recover from the COVID-19 pandemic (shown by the blue dotted line in Figure 5).

If Manchester is to stay within its carbon budget, the city needs to rapidly accelerate action to reduce emissions.

TO READ MANCHESTER’S ANNUAL REPORTS, VISIT:
www.manchesterclimate.com/progress

CITY CHALLENGES – NET ZERO NEW BUILDINGS

City Challenges are a new initiative of the Partnership which bring together the expertise and capacity of local stakeholders to tackle a complex climate challenge the city is facing via a task and finish group, lasting six to nine months.

NET ZERO NEW BUILDINGS

For Manchester to stay within its carbon budget, we need to strive for the highest net zero standards in new buildings; this will also avoid adding to the city’s future retrofit needs.

This City Challenge was established to seize the opportunity created by the update of Manchester’s Local Plan scheduled for 2023. The goal is to include residential, commercial, industrial, and institutional buildings, plus operational and embodied carbon across the whole life cycle. The group includes stakeholders from across the built environment sector who are leading the way in raising net zero standards. Four sub-groups were created to explore:

1. **Ambition and targets:** Revising Manchester Roadmap for Net Zero Buildings based on best practices.
2. **Financial viability and economic feasibility:** Analysing net zero building costs and incentives to overcome barriers.
3. **Case studies:** Identifying Manchester projects promoting net zero standards for the Local Plan.
4. **Planning policy:** Providing early advice to sub-groups and coordinating presentations for the Local Plan consultation.

19 ORGANISATIONS INVOLVED:

- Architects
- Engineers
- Financiers
- Planners

In association with:



City Challenge chaired by:

Sub-groups led by:

Supported by:



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Appendix 1, Item 5

COMMERCIAL BUILDING RETROFIT

For Manchester to stay within its carbon budget, we need to retrofit our buildings, including commercial premises. The Framework target is for this sector to reduce its energy demand by 61% to support the city to halve its emissions.

This City Challenge was established to understand the barriers and develop solutions to accelerating commercial retrofit in Manchester and includes stakeholders from across the built environment sector who are leading the way in decarbonising commercial properties. The project will align with industry standards and focus on achieving outcomes that benefit all stakeholders. Four sub-groups were created to explore:

1. **Financial Viability:** Creating a commercial case, investigating approaches to make retrofitting commercially viable.
2. **Policy:** Understanding policy and market change drivers and how to enhance them to encourage action.
3. **Technology and skills:** Exploring why technology and skills are key to the delivery of commercial retrofit.
4. **Monitoring and verification:** Exploring methods of verification and tracking progress to ensure successful delivery

City Challenge chaired by: Sub-groups led by:

bruntwood

BURO HAPPOLD

ARUP



Turner & Townsend

17 ORGANISATIONS INVOLVED

Asset owners
Engineers
Landlords
Real estate

In association with:



Supported by:

MANCHESTER CLIMATE CHANGE AGENCY

PEER TO PEER LEARNING AND VIRTUAL TEAMS

Peer to Peer learning is a new initiative between Partnership members that involves the open sharing of lessons learned during the implementation of climate action within their own organisations. Two themes were explored this year: the setting of science-based targets to drive climate action and using sustainable procurement to reduce carbon emissions through supply chains.

SCIENCE-BASED TARGETS

Led by: CDP

Attendees: Six Manchester-based organisations and partner organisations from three other countries.

Outcome: The webinar included an overview of the Science Based Targets initiative, updates on net zero standards for corporations, the journey from commitment to validation and target-setting criteria and methods. It provided information on available resources and tools that can support businesses to set science-based targets.

SUSTAINABLE PROCUREMENT

Led by: Manchester City Council and Deloitte

Members: Manchester Metropolitan University, Bruntwood, University of Manchester, GMAST, Muse Developments.

Outcome: To share public and private sector approaches to sustainable procurement and identify city wide challenges and barriers. The Manchester Metropolitan University research team were appointed to research best practice, benchmark Partnership members and recommend a Manchester standard.

Virtual Teams is a new way for Partnership members to pool their expertise and resources. The focus this year was on climate communications.

VIRTUAL COMMUNICATIONS TEAM

Members: University of Manchester, Deloitte, THG, Arup, Manchester Metropolitan University, The Wates Group, GMAST, The Carbon Literacy Trust, Creative Concern.

Focus: To support the development of a city-wide climate communications campaign.



ADVISORY GROUPS

The Partnership's three Advisory Groups provide independent, expert advice to the Partnership and 'Agency in delivery of their activities.

Specific tasks include:

- Supporting the development of the city's strategy and targets.
- Interpreting the UK government's annual emissions data.
- Mapping the city's trajectory against its carbon budget.
- Analysing the city's aviation emissions data.
- Assessing the latest available data on consumption emissions.
- Sharing information on the latest local, regional and national policy advancements, advice to government from trusted sources, and academic research and technical reports.
- Identifying good practice in other cities and sectors.
- Responding to technical questions.
- Identifying appropriate funding and research calls.

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ZERO CARBON

Members represent: Anthesis, Tyndall Centre for Climate Change Research, Manchester Metropolitan University, University of Manchester.

Key work this year: Baselining the city's emissions, analysis of the Government's emissions data, creation of the Partnership's position on aviation emissions, and a review of zero carbon terminology.

ADAPTATION AND RESILIENCE

Members represent: Manchester Metropolitan University, University of Manchester, Greater Manchester Resilience Unit, Environment Agency.

Key work this year: Working with the Met Office on local climate projections and the impact of extreme heat, identifying examples of adaptation in the city for the Manchester climate ready website.

HEALTH, WELLBEING AND CLIMATE

Members represent: the NHS, Manchester Foundation Trust, Manchester City Council, University of Manchester.

Key work this year: Supporting the development of Making Manchester Fairer and working with Exeter University on health and extreme heat.

PARTNERSHIP NETWORKING

The Partnership recognises the importance of networking and knowledge sharing in tackling climate change. To facilitate this, the Partnership holds quarterly meetings for members to share their experience, hear from other climate initiatives, discuss complex climate issues, receive policy and progress updates, visit and develop new collaborative solutions that can accelerate our progress towards a zero carbon, climate resilient city.

MEMBER SPOTLIGHTS

A key feature of quarterly meetings is the "Member Spotlight" where members have the opportunity to showcase their best practices and success stories. To recognise the achievements of individual members and inspire and motivate others to adopt similar sustainable practices.

GUEST SPEAKER PRESENTATIONS

Guest speakers are invited to provide insights into initiatives taking place across the city. These presentations inform Manchester Climate Change Partnership members about innovative approaches and projects and facilitate further opportunities for collaborative working across the city.

DISCUSSIONS AROUND THEMATIC ISSUES

These discussions allow members to address complex and challenging barriers to individuals, organisations and the city taking action on climate change. By pooling their expertise and experiences, members collaborate to develop new initiatives and innovative solutions to explore.

UPDATES

To ensure members stay informed and engaged, the quarterly meetings provide updates on the Partnership and Agency activities, the city's progress in tackling climate change, local and national policy changes and wider governmental initiatives, to inspire greater action.



YOUTH BOARD FOR CLIMATE CHANGE

The Manchester Climate Change Youth Board was formed in 2017 and has a seat on the Manchester Climate Change Partnership – putting young people at the heart of climate action in Manchester.

Following the launch of their Manifesto in late 2021, the Youth Board held several workshops on ways to implement the seven priorities listed to the right. They also started designing new ways to structure themselves to provide new opportunities for a wider range of young people to be engaged in the climate conversation.

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MANCHESTER CLIMATE CHANGE AGENCY + MANCHESTER CLIMATE CHANGE PARTNERSHIP

THE MANCHESTER CLIMATE CHANGE YOUTH BOARD LAUNCHED THEIR MANIFESTO IN OCTOBER 2021, OUTLINING SEVEN PRIORITIES:

1. Ensure that Manchester's communities are succinctly engaged, educated, empowered, supported and feel enough relevance to the cause, to take action on climate change.
2. Ensure that other current world issues and priorities do not divert away from the climate change agenda.
3. Ensure that Manchester's economic and business aspirations do not take precedence over climate change action.
4. Work with the policy and legislative framework to help Manchester communities and organisations to take action on climate change.
5. Work with education and training providers to ensure that they are taking action on climate change.
6. Empower Manchester's young people to take action on climate change.
7. Ensure that the climate change movement is diverse and inclusive.

Appendix 4, Item 5

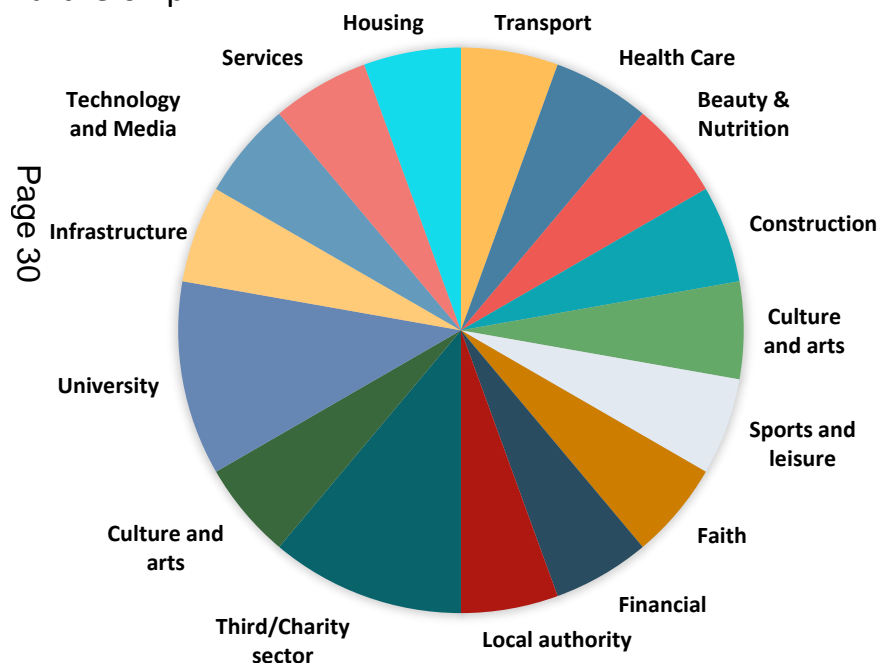


SHARED ACTION FOR OUR ZERO CARBON CITY

BEST PRACTICE ACROSS THE PARTNERSHIP

In 2022, the Agency worked with CDP and C40 Cities to develop a survey to collate best practice by Partnership members. The survey captured positive climate action across seven thematic areas including energy efficiency, building retrofit, renewable energy generation, sustainable procurement, electric vehicles, sustainable commuting, adaptation planning, environmental training and governance. The results highlighted the scale of positive action being delivered across the city and highlighted opportunities for Partnership members to learn from each other.

Figure 6: a breakdown of sectors represented by the Partnership



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100%
OF MEMBERS
HAVE
COMMITTED TO
REACH NET
ZERO CARBON

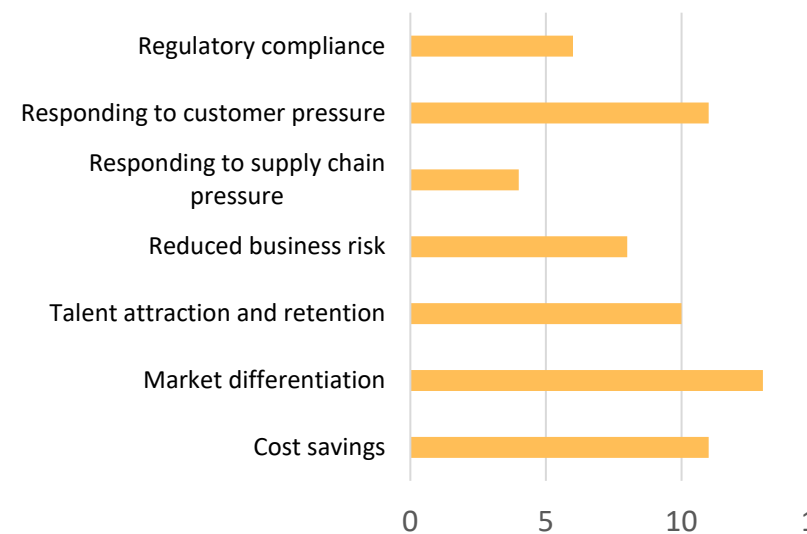
373
CLIMATE
ACTIONS ARE
UNDERWAY
WITH 95 MORE
IN THE PIPELINE

95%
ARE ALIGNED TO
MANCHESTER'S
ZERO CARBON
TARGET DATE
OF 2038

72%
UNDERTAKE
CLIMATE
REPORTING
INCLUDING VIA
CDP OR TCFD

Figure 7: the benefits of climate action

BENEFITS OF CLIMATE ACTION



Appendix 4, Item 5

CASE STUDIES FROM PARTNERSHIP MEMBERS

The following section highlights 19 examples of proactive climate action being led by individual members of the Manchester Climate Change Partnership members – ordered alphabetically.

The examples cover a range of initiatives from solar panels to sustainable procurement, energy efficiency, sustainable building design, electric vehicles and blue and green infrastructure, providing a snapshot of the 373 climate actions already underway.

Page 22. Arup

Page 23. Bruntwood

Page 24. Deloitte

Page 25. Electricity North West

Page 26. GMAST

Page 27. Manchester Museum

Page 28. Manchester Airports Group

Page 29. Manchester City Council

Page 30. Manchester City Football Club

Page 31. Manchester Health and Wellbeing Board

Page 32. Manchester Housing Providers Partnership

Page 33. Southway Housing Trust

Page 34. Northwards Housing

Page 35. Manchester Metropolitan University

Page 36. Our Faith Our Planet

Page 37. The Carbon Literacy Project

Page 38. THG

Page 39. The Wates Group

Page 40. University of Manchester

BEST PRACTICE IN THE CITY – ARUP

MANCHESTER ENGINEERING CAMPUS DEVELOPMENT

Both the largest home for engineering in any UK university and the largest construction project ever completed by a higher education institution within the country, the Manchester Engineering Campus Development (MECD) unites four engineering and material science departments into one coherent facility, helping the University of Manchester achieve its goal of becoming one of the top 25 research universities in the world. Arup has been advising on the campus since 2014 delivering multidisciplinary and specialist engineering services and have been retained throughout the entire project including post-occupancy support.

Bringing the University closer to its commitment to be net zero carbon by 2038, MECD has 50% lower predicted energy use than the existing buildings it replaces and 40% lower carbon emissions.

High-performance façades, natural ventilation and a mixed-mode solution at scale reduces energy demand in a fabric-first approach which will maximise energy and carbon savings in the long term. Testing many scenarios, we substantially optimised and reduced embodied carbon within the building structure and foundations, providing stringent performance requirements for vibration and the University's future adaptability and flexibility requirements. Some 97% of deconstruction materials were recovered for reuse. Smart use of space reduced the floor area needed for technical spaces by 40% versus existing facilities.

“Arup, an employee owned collective of designers, planners and advisors, has long had shaping a better world as our central purpose. We are therefore proud to be part of the Partnership, working with fellow partners, including the University of Manchester, to help Manchester play its full part in taking climate action and building a green city where everyone can thrive.”

Mike Wilton, Director and Manchester Officer Leader, Arup



**50%
POTENTIAL
REDUCTION IN
ENERGY
CONSUMPTION**

**40%
PREDICTED
ANNUAL CARBON
REDUCTION IN THE
FIRST YEAR WITH
ONGOING CARBON
REDUCTION AS THE
ELECTRICITY GRID
DECARBONISES**



BEST PRACTICE IN THE CITY – BRUNTWOOD

BUILDING EFFICIENCY PROGRAMME

The UK Green Building Council estimates that approximately 80% of buildings that exist today will still be here in 2050.

Bruntwood's Building Efficiency programme, first conceptualised in 2020, has been created to develop an understanding of Bruntwood's existing building portfolio, and the interventions needed to make them more energy efficient.

Bruntwood has set a goal for all their buildings to reach net zero by 2050 as well as meet legislative requirements, such as the Minimum Energy Efficiency Standards, which requires an EPC B rating by 2030 for all private rented commercial properties

The programme will influence building-level initiatives, so each building will have a bespoke net zero plan. The hope is that this should also position Bruntwood ahead of additional future regulations such as those that arise from the 'Future Buildings Standard' consultation.

“Reducing the emissions from existing buildings is such an important part of addressing climate change. As far as we're aware, this is the largest scale energy efficiency programme in the UK commercial property industry to date.”

Etienne Humphries, Head of Building Performance, Bruntwood

“We strongly believe that our success is linked with the success of the regions we operate in. Manchester has set an ambitious target for being zero carbon by 2038 and we're fully committed to supporting the work of the Partnership to help achieve this target.”

Alex Edwards, Sustainability Director, Bruntwood



OVER 100 BUILDINGS ASSESSED AS PART OF THE PROGRAMME

5.5 MILLION SQUARE FOOT AREA OF PORTFOLIO ASSESSED



BEST PRACTICE IN THE CITY – DELOITTE

MAYFIELD PARK

Mayfield is a £1.4bn commercial-led regeneration scheme in Manchester City Centre, which is an exemplar of brownfield regeneration. The first element of this scheme is the 6.5-acre Mayfield Park, which completed construction in September 2022. The park is centred around the newly-exposed River Medlock and incorporates complex flood mitigation measures to ensure that areas of the River Medlock both upstream and downstream are not flooded by new development taking place at Mayfield.

By re-using all site-won materials and remediating these on-site as engineering fill, a significant amount of embodied carbon was saved during the construction process. The proposals also reutilized the old Victorian wells, to provide irrigation and cleaning for the park, as well as locally-sourced materials for the play park and re-purposed dockyard fenders for the furniture.

The park will become the future sustainable heart of this new city centre neighbourhood. Demonstrating how sustainability can be at the heart of brownfield regeneration.

“Mayfield Park represents the first new park in Manchester City Centre in over 100 years, a crucial milestone in a new era of sustainable development within the city. As the Manchester City Region continues to be a national leading hub for property development, Mayfield demonstrates how green and publicly accessible open spaces can form a critical part into regeneration plans, ultimately helping to build a city where humans and the wider natural world can form a mutually beneficial relationship with one another.”

Michael Percival, Assistant Director, Deloitte

“Given a commitment to sustainability runs right across Greater Manchester, particularly given the ambitious target of reaching net zero by 2038, it was important that our own operations and the work we do with clients aligns with this. The Partnership provides the exact forum needed to share knowledge and collaborate around sustainable practices across a variety of sectors, creating an open dialogue for the Manchester business community. With this in place, we can all work in partnership to ensure that we meet the necessary targets and create a clean and sustainable future for the city and wider region.”

Simon Bedford, Partner at Deloitte



**UP TO 300
TONNES
CO₂e
SAVED DURING
CONSTRUCTION,
PROCUREMENT
AND
OPERATION**

**1 TONNE
CO₂e
SEQUESTERED
PER YEAR FROM
THE 140 NEW
TREES ALONE**



ELECTRIC VEHICLES AND SUSTAINABLE TRAVEL

The decarbonisation of the transport sector is a critical element on our journey to net zero. We started our transition to electric vehicles (EVs) in 2018 with the introduction of a number of Nissan Leaf pool cars. This was followed by the launch of our EV strategy in 2019 and our sustainable transport policy in 2020.

Our aim is to replace our fleet vehicles with lower emission alternatives and to support and enable our colleagues to transition to EVs and sustainable transport.

In 2020 we increased our range of company vehicles from just one EV model to include a variety of EVs and hybrids. We offer enhanced car allowances to company car users – up to 43% for a full battery EV and 30% for a plug-in hybrid vehicle. 60% of our company car users now have or have ordered an EV or plug-in hybrid.

Colleagues who do not have a company car can purchase an EV via an affinity scheme run by our car supplier. We have installed 120 charge points across our offices and depots for colleagues and visitors. We offer interest free loans for the purchase of a home charger. We have also provided EV charging in seven accessible parking spaces. We offer interest-free loans for all colleagues to buy season tickets for public transport. We have enhanced our salary sacrifice cycle to work scheme by removing the £1,000 purchase cap to encourage the take-up of electric bikes. Nearly 100 people currently use our 'cycle to work' scheme, an increase of 25% since we lifted the £1000 limit.

“Since implementing our sustainable travel policy, we’ve seen a massive uptake of electric vehicles and employees taking advantage of our cycle to work scheme. There’s an ever-increasing appetite among our employees to move to electric vehicles – 92% of those due to renew their company vehicle in 2022 are considering making the switch.”

Jonny Sadler, Strategic Decarbonisation Manager, Electricity North West



60%
OF COMPANY CAR USERS NOW HAVE OR HAVE ORDERED AN ELECTRIC OR PLUG-IN HYBRID VEHICLE

75%
REDUCTION IN GREENHOUSE GAS EMISSIONS BETWEEN APRIL 2021 AND MARCH 2022

25%
MORE EMPLOYEES NOW USE THE CYCLE TO WORK SCHEME



BEST PRACTICE IN THE CITY – GMAST

CULTURAL COLLABORATION ON CLIMATE IN GREATER MANCHESTER AND BEYOND

The GMAST network has developed across the cultural sector with more and more organisations working together to tackle the climate and ecological crisis.

The collective response has been effective, and Manchester is internationally recognised for this approach. GMAST has a strong foundation and track record of collaboration that can be built on to create a place of excellence for sustainable cultural practice. Engaging communities and sharing stories to galvanise energy in building a just and balanced future has proved particularly impactful.

Supported by Arts Council England, GMAST, have been exploring their future model to provide support and leadership for the cultural sector.

GMAST have also been sharing their learning and practise with networks in Liverpool and Leeds, SHIFT and SAIL. Finding ways to collaborate across the north.

“Over 10 years, a community committed to working together on climate and environmental action has emerged across Greater Manchester’s cultural sector. Initially we were a collection of often lone voices, today we see organisations making climate action central to values, purpose, and decisions. Our collective approach of sharing challenges, our practice and learning helps us inspire each other to go further and explore how our future can be different.”

Simon Curtis, Convenor, GMAST

“We joined the city climate conversation back in 2016. Culture needed to play its part. Telling stories and helping connect our communities to our impact on our world. The partnership has brought us together with other sectors, the science and strategy. The conversation is expansive, the group collaborative and the spirit ambitious, as we all explore how to secure our climate and natural habitats.”

OVER 60 PARTICIPATING ORGANISATIONS

**CO-BENEFITS
A SKILLS AND CAPACITY BUILDING PROGRAMME, COLLECTIVE WORKING, DIGITAL RESOURCES, SHARING PRACTICE**



ROOTS AND BRANCHES

Roots and Branches is a partnership project between Manchester Museum, Museum Development North West and The Carbon Literacy Project, funded through Arts Council England. This collaboration is passionate about the role museums can play in addressing the inequalities in our society, including those created by the climate crisis.

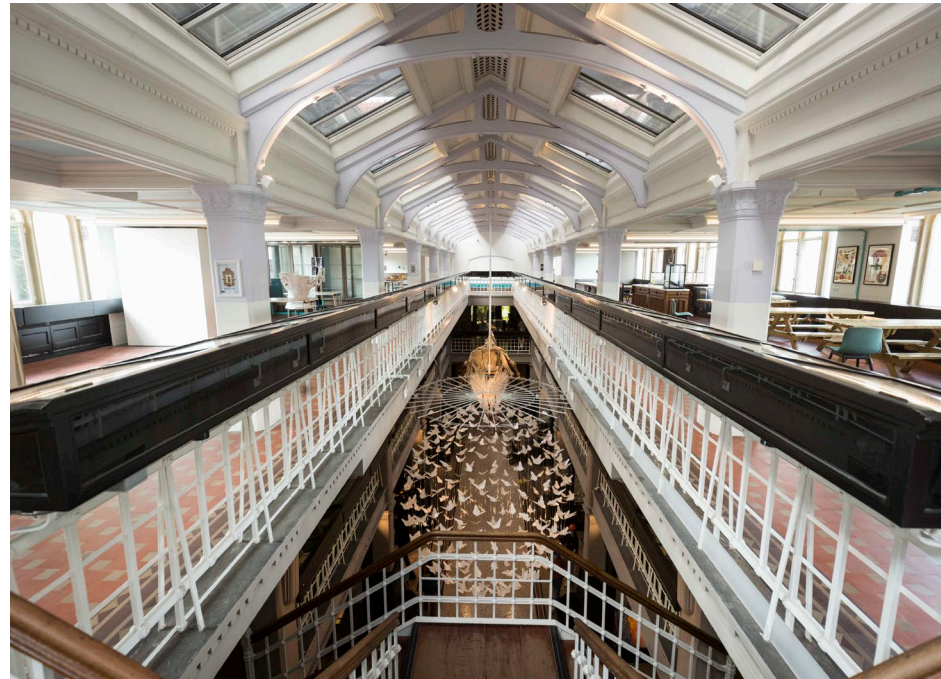
Roots and Branches demonstrates how museums can become sites for inspiring environmental action.

The 'Roots' of the project is creating a nationally significant coworking hub of environmental action at Manchester Museum to benefit diverse groups from across the city.

The 'Branches' of the project is equipping museum staff and volunteers across England and beyond with the tools to take positive climate action, underpinned by a dedicated Carbon Literacy for Museums Toolkit.

“Committing to carbon reduction [now feels] realistic and the support throughout has really helped me to plan out how this can be made possible.”

Roots and Branches participant



1,400
CARBON
REDUCTION
ACTIONS
CREATED IN THE
FIRST 18
MONTHS

OVER 260
ORGANISATIONS
ENGAGED SO FAR

1,500
INDIVIDUALS
WILL RECEIVE
CARBON
LITERACY
TRAINING



FLIGHTPLAN TO NET ZERO

Manchester Airport aims to be the first UK airport to receive a direct pipeline supply of sustainable aviation fuel. The production and distribution of sustainable aviation fuel in the region has the potential to create up to 1,500 green jobs and contribute over £219 million to the North West economy.

Manchester Airports Group also plays a crucial role in leading the wider aviation industry to decarbonise. As one of only two airport operators on the UK Government's Jet Zero Council and a founding member of the industry wide body Sustainable Aviation. In 2022, Manchester Airports Group became the first airport operator to be named a Financial Times European Climate Leader two years in a row.

"Manchester Airports Group is proud to be playing a leading role in the decarbonisation of the UK aviation sector as a member of the Government's Jet Zero Council, working closely with Ministers and industry partners to work towards net zero by 2050. As a business we are working towards our own goal of net zero carbon operations by 2038, and through the five Jet Zero pledges we published in July, we will continue to support decarbonisation through developments in research, the use of Sustainable Aviation Fuels and Airspace Modernisation."

Neil Robinson, Group CSR and Future Airspace Director, Manchester Airports Group



**8,723
TONNES CO₂e
SAVED IN 2020
AND 2021**

**56%
OF THE ENERGY
USED IN 2020
AND 2021 CAME
FROM
RENEWABLE
RESOURCES**

**2038
TARGET FOR NET
ZERO CARBON
AIRPORT
OPERATIONS**



ELECTRIC REFUSE COLLECTION

Manchester City Council has made a £9.8 million investment into decarbonising its waste collection fleet and improving air quality by replacing 50% of the original diesel fleet with electric vehicles, making it the largest fleet of electric refuse collection vehicles in the UK.

The 27 new electric refuse collection vehicles are expected to save 900 tonnes of CO₂ per year and help to improve air quality across the city.

The project commenced with the enhancements of the electrical infrastructure at the key Council depots, followed by the phased roll out of the electric refuse vehicles during 2021 and 2022. All 27 vehicles are in operation across the city.

“We’re proud that Manchester City Council has made the most significant investment of any council in emission-free refuse collection vehicles and that the waste and recycling service is playing its part in binning pollution.”

Councillor Rabnawaz Akbar, Executive Member for Neighbourhoods 2021, Manchester City Council

“Manchester City Council established the Partnership in 2018 as we recognised that working together across sectors is the only way to deliver a coordinated citywide response to climate change. The Partnership enables us to share successes, challenges, expertise and innovations across organisations and sectors, as well as working collectively on cross-cutting issues such as zero carbon new build, retrofit and climate adaptation. The ongoing work of the Partnership to establish science-based targets and develop robust Climate Change Frameworks for the city is at the core of Manchester's response to the Climate Emergency.”

Carol Culley OBE, Deputy Chief Executive and City Treasurer at Manchester City Council



**900 TONNES
CO₂
ANNUAL
CARBON
SAVING**

**CO-
BENEFITS:
IMPROVED AIR
QUALITY,
REDUCED NOISE
ON
RESIDENTIAL
STREETS AND
INCREASED
CLIMATE
CHANGE
AWARENESS**



BEST PRACTICE IN THE CITY – MANCHESTER CITY FOOTBALL CLUB

MANCGROVES

Manchester City Football Club's ongoing commitment to credible and meaningful local carbon mitigation has led to various actions in waste and energy consumption reduction, on-site composting and removal of plastics, as well as a study to understand and respond to positive CO₂ sequestration from the mitigation programme.

Engaging the Club's community outreach team, landscape and ecology partners, and a local sixth form college – the Club has collaboratively developed positive changes to both its own and local landscapes. One such outcome has been to replicate the higher sequestration benefits of mangroves in the Manchester environment – working with various groups to invent the 'Mancgrove'. Suitable to Manchester's weather and ground conditions, Mancgroves, large or small, can be replicated in schools, neighbourhoods or any space. Additional benefits include improvements in general health and social inclusion whilst monitoring and assessment options also lends Mancgroves to STEM learning opportunities.

As of 2023 test beds are already in play, building on the wider green corridor developed at the grounds since 2015, and already attracting new and abundant wildlife.

“At Manchester City we are driven by a passionate belief that football can have a positive impact in our communities and empower better lives. We are committed to growing a sustainable organisation, acting responsibly with the interests of our fans, employees and the people of our cities at the heart of everything that we do.”

Pete Bradshaw, Director of Sustainability, Manchester City Football Club

“Collaboration forms a key part of how the Club works and the Manchester Climate Change Partnership offers its membership a significant opportunity to work collectively for real and positive change for our city and region. It is, therefore, appropriate, even exciting for the Club to be part of the Manchester Climate Change Partnership where the benefits include learning and networking, sharing and the promotion of a positive future for our city.”



**10 – 15%
MORE CO₂e
ABSORBED
LOCALLY THAN
BY TRADITIONAL
TREE PLANTING**

**CO-
BENEFITS
COMMUNITY
PARTICIPATION,
CLEANER AIR,
IMPROVED
HEALTH AND
WELLBEING,
EDUCATION AND
LEARNING**



GREEN PRESCRIBING

Manchester Health and Wellbeing Board have been working on projects to reduce the carbon footprint of healthcare services and medicines, one example is changing the prescribing of inhalers. Metered dose inhalers (MDIs), which are the most prescribed inhalers in the UK, are responsible for 3% of the total carbon footprint of the NHS.

A Greater Manchester Asthma working group was formed, which identified dry powder inhalers (DPIs) as a more environmentally friendly alternative to MDIs. The group advised prescribers to avoid the highest emitting inhalers whenever possible and worked on developing information sources and videos to educate our residents. They also provided education and training to healthcare professionals on the environmental impact of inhalers, the benefits of DPIs and that this should only be done in discussion with our residents using those inhalers.

To encourage patients to switch to DPIs, the group worked with local pharmacies to provide education and support. Over the course of a year, over 1,000 patients were switched from MDIs to DPIs.

“The success of this project demonstrates that small changes in healthcare practices can have a significant impact on the environment. By educating healthcare professionals and patients and promoting the use of more environmentally friendly options, we can reduce our carbon footprint while still providing high-quality care for patients.”

Dr Murugesan Raja, Manchester Health and Wellbeing Board

“Healthcare plays a key part in having an impact on climate change, in not necessarily accounting for the carbon footprint it generates and also what it could do to achieve net zero.

On the flip side, any action done to mitigate against climate change also benefits the health and wellbeing of our residents.

The benefits of being involved in the Partnership have been palpable with changes happening across secondary care and primary care in how surgical operations are done, how anaesthetics are used, and thinking about carbon efficiency in any new buildings that are built and how others could be made more efficient.

Climate change is everyone’s role, by working in partnership together we can maximise our impact.”

CO-BENEFITS

**IMPROVED
PATIENT CARE,
REDUCED RISK
OF OVERUSE OF
HIGH-EMITTING
INHALERS
WHICH COULD
LEAD TO POOR
ASTHMA
CONTROL AND
EXACERBATIONS**



PARTNERSHIP WORKING TO ACCELERATE DECARBONISATION

The Manchester Housing Providers Partnership consists of 18 social housing providers and Manchester City Council who work collaboratively to provide good quality, affordable homes. The partners are responsible for approximately 68,000 homes in the local authority, providing housing for 1 in 3 Manchester residents.

In 2019 Partners signed up to 2020-2025 action plan as part of the pledge to commit to be zero carbon by 2038 with clear early interventions around Strategy and Governance, Stock and Existing Assets, Operations, New Homes, Collaboration with others and Natural Capital.

Since 2020 the Manchester Housing Providers Partnership has worked together to understand the collective baseline of current Scope 1,2 and 3 emissions. The partnership has strived to make carbon reduction part of business decisions all developing organisational strategies approved by Boards and have developed asset investment models to achieve 100% Net Zero Carbon homes by 2038.

Whilst Business Plans can currently not sustain the level of investment required to reach the target without significant grant or income it demonstrates the commitment of members to strive towards solutions for the future.

“Manchester Housing Providers Partnership members are committed to reaching Net Zero Carbon by 2038 and the partnership is key to sharing the learning across sectors. Real progress can only be achieved through collaboration and a ‘Manchester’ approach to tackling climate change.”

Matt Roberts, Strategic Director, Southway Housing Trust



100%
**NET ZERO CARBON
HOMES BY 2038**

**THE PARTNERS
ARE RESPONSIBLE
FOR
68,000
HOMES IN
MANCHESTER**



ARROWFIELD ZERO CARBON COMMUNITIES

Southway Housing Trust's £4m project, part funded through the European Regional Development Fund, improved insulation and replaced gas heating with renewable Air Source Heat Pumps at 380 properties, alongside a programme of community engagement. The project aimed to take a whole community on a zero-carbon journey through investment, engagement and changes in lifestyle.

The Low Carbon Community Hub provides an opportunity for residents to see a functioning Air Source Heat pump in action and learn about other ways to reduce their carbon footprint.

Additional partnership working with Electricity North West has also seen additional investment in the network to support the electrification of all homes.



**400 TONNES
CO₂e
SAVED PER YEAR**

**CO-BENEFITS
COLLABORATION
ACROSS HOUSING
PROVIDERS,
ELECTRICITY NORTH
WEST, INSTALLERS,
TECHNOLOGY
SUPPLIERS AND
TENANTS**

“This project highlights the importance of early engagement with all stakeholders. Retrofit is not just about the homes themselves and the need to understand the wider implications on the community and the infrastructure is vital. It is hoped the learning from the Arrowfield Low Carbon Communities Project will pave the way for other large scale retrofit programmes.”

Matt Roberts, Strategic Director, Southway Housing Trust



LIVERTON COURT

Manchester City Council, with funding from the European Regional Development Fund, replaced an inefficient gas communal boiler system with a shared loop ground source heat pump (GSHP) system at Liverton Court. The installation includes a shared ground array (with 7 miles of pipework) and individual GSHP units to each flat in the block. The project is part of the Council's wider ambitions to retrofit its 16,000 properties in order to achieve zero carbon for its housing stock by 2038.

Of the 70 flats, only 35 used their heating consistently prior to the installation of the GSHPs. After the installation it was found that heating was switched on more consistently, resulting in warmer, more comfortable homes for the tenants.

The 35 tenants who used their heating experienced a small increase in their energy bills on average. Energy advice was provided to all those whose bills had increased (approximately half of the tenants), to allow better control of temperatures and changing of settings, for example while away from home. The provision of tailored energy advice was seen as key to lowering tenant bills and maximising the carbon benefits of the GSHP system.

“Homes make up 30% of our carbon emissions as a city so it's great to see the retrofit and investment work that's taken place in our council housing at Liverton court in Higher Blackley, North Manchester. Making our homes more energy efficient leads to warmer homes, and lower bills for our residents, and helps us towards our ambition to be a zero carbon city by 2038. We want to see further retrofit investment to our 70,000 social housing homes by 2038 and we want to get 33% of those complete by 2032 to EPC B or above.”

Councillor Gavin White, Executive Member for Housing and Development



**63 TONNES
CO₂e
SAVED PER YEAR**

**£10,000
SAVED PER YEAR**

**CO-BENEFITS
WARMER AND
MORE
COMFORTABLE
HOMES, IMPROVED
RELIABILITY OF
THE SYSTEM,
RESULTING IN
LESS DISRUPTION
TO TENANTS TO
CARRY OUT
REPAIRS**



A SUSTAINABLE COMMITMENT TO SPORTING EXCELLENCE

Ranked as one of the most sustainable universities in the UK for a decade, Manchester Metropolitan has a firm commitment to sustainable development practices. In July 2020, work began at 99 Oxford Road to transform the old Students' Union offices into the Manchester Metropolitan University Institute of Sport.

Demolition was minimised and existing furniture and materials were salvaged, recycled and redistributed around the campus to reduce the need for new natural resources.

During the build, a high performing thermal envelope was created which approaches Passivhaus standards. Retained existing walls were over-clad with insulation to improve energy performance and solar panels were installed.

In addition, the project also installed systems which helped reduce the ongoing environmental impact including reduced water usage, leak detection systems and highly efficient building services. Manchester Metropolitan also worked in partnership with an Ecological Consultant to ensure the environmental impact during the build was minimal.

The Institute of Sport is a living laboratory with a suite of testing infrastructure installed to allow researchers to analyse the performance of the building.

“This project adopted a ‘lean, mean and green’ approach from the start. The new site is committed to making a real impact on the world around us, now – and for generations to come.”

Ian Christon, Assistant Director of Communications, Manchester Metropolitan University

**1037 TONNES
CO₂e
EMBODIED CARBON
SAVED DURING
DESIGN, EQUATING
TO 2.6 MILLION
CAR MILES**



BEST PRACTICE IN THE CITY – OUR FAITH OUR PLANET

REDUCING CARBON EMISSIONS IN RELIGIOUS BUILDINGS

Our Faith Our Planet is an inter-faith network in Manchester focused on climate change action through education and engagement. In 2022, A subset of the group worked on identifying environmental improvements and best practices for religious buildings, with the aim of reducing carbon emissions and environmental impact. Environmental audits were undertaken on four different religious buildings in Manchester; Gurdwara, Manchester Cathedral, Khizra Mosque, and Methodist Central Hall, with tailored recommendations made for each building.

Religious buildings face several challenges in becoming more environmentally sustainable, including obtaining expert knowledge, upfront costs, limited volunteer time, and restrictions in building infrastructure. Jointly procuring or sharing costs can be a cost-effective method of taking action. Additionally, changing the behaviour of building occupants is important. Some buildings may have limits on what they can achieve due to factors such as listed status or lack of outdoor space. Funding may be available for some initiatives, but religious groups may struggle to access it. Seeking support from similar buildings can help address these challenges.

“Religious groups are extremely under-resourced to address issues of climate change. However, we do have hundreds of spaces for worship, clergy accommodation and meeting centres in Manchester and each contributes to the carbon footprint of the city. The Church of England plans to be net zero by 2030 and we are working towards that goal at Manchester Cathedral.”

Dean Rogers Govender, Manchester Cathedral

“Our Faith Our Planet has been involved in the Partnership as a way of ensuring that the voice of the faith communities is heard in this important forum where important decisions are made to reduce our carbon footprint. We also bring social, religious, cultural and racial diversity to the Partnership where this did not exist previously. Our Faith Our Planet was instrumental in organising a delegation to visit the Pope at the Vatican in April 2023 as a way of highlighting the work being done in Manchester and underlining the need to support each other in addressing the needs of our city.”



OVER 23
RECOMMENDATIONS
COVERING HEATING
AND COOLING,
LIGHTING AND
ENERGY, WATER,
FOOD AND WASTE,
TRANSPORT,
LEADERSHIP AND
AWARENESS

CO-BENEFITS
TAKING ACTION ON
CLIMATE IN
RELIGIOUS
BUILDINGS INSPIRES
OTHERS TO TAKE
ACTION



BEST PRACTICE IN THE CITY – THE CARBON LITERACY PROJECT

PUTTING PEOPLE AT THE HEART OF ZERO CARBON

Founded and created in Manchester, Carbon Literacy® provides everyone with access to the vital knowledge, motivation and inspiration they need to start their own low-carbon journey.

In practice its unique approach offers a day's worth of experience that delivers awareness, knowledge, motivation and action, resulting in accredited learners, and organisations able to apply and evidence their culture of Carbon Literacy to suppliers, customers and stakeholders.

The subject of multiple academic research projects, and an innovation award from the UN, with more than 530 Carbon Literacy solutions are now available globally, created by the learners, communities, organisations and sectors receiving them.

As a result, thousands of citizens here in Manchester and tens of thousands of citizens worldwide are now Carbon Literate, acting on climate, changing society and directly reducing emissions globally.

Carbon Literacy is “An awareness of the carbon costs and impacts of everyday activities and the ability and motivation to reduce emissions on an individual community and organisational basis.”

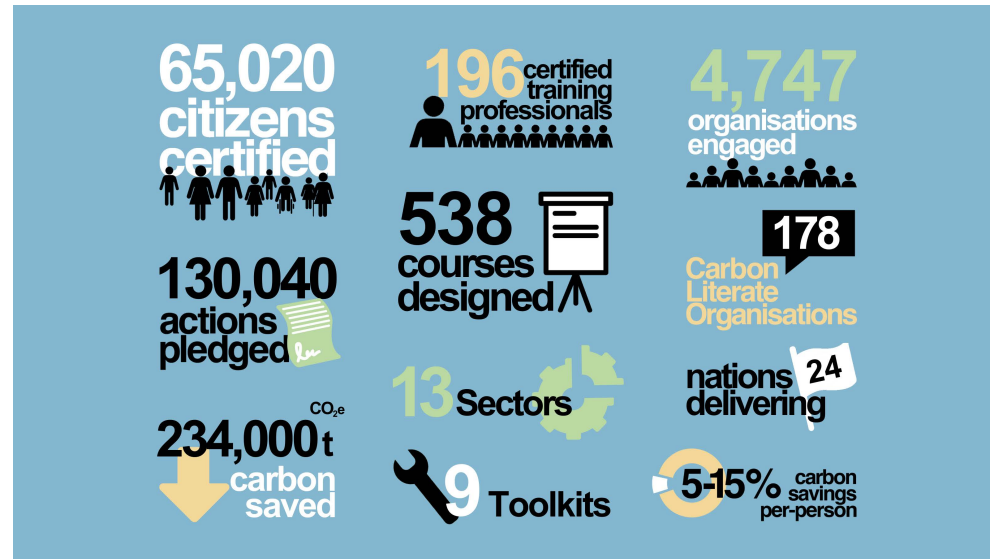
The Carbon Literacy Project

“In the city in which Richard Arkwright first connected a loom to a steam engine and arguably initiated both the industrial revolution and the climate crisis, it seems only right that Manchester would then be the city to initiate a unique climate-change solution, founded on both individual action and collective leadership.”

Dave Coleman, Managing Director, The Carbon Literacy Project

**OVER 6000
CITIZENS IN
MANCHESTER ARE
NOW CERTIFIED AS
CARBON LITERATE**

**21,600
TONNES CO₂e
SAVED SO FAR IN
MANCHESTER**



APPROACH TO CLIMATE ACTION

THG has published its 2030 Sustainability Strategy, THG x Planet Earth, which outlines ambitious climate action and sustainability goals, guided by the United Nations Sustainable Development Goals.

THG have set ambitious targets to be climate positive and address the environmental impact of greenhouse gas (GHG) emissions. They established their baseline carbon footprint, based on 2020 data, and submitted net zero targets to the Science Based Targets initiative (SBTi) for approval.

The challenges of taking effective climate action inspired THG to establish THG Eco: a dynamic service solution based on the purpose-led proposition of 'simplifying sustainability'. THG Eco simultaneously powers THG's wider sustainability targets, while also providing uncomplicated and cost-effective sustainability services to clients, partners and suppliers.

THG Eco's support starts with annual carbon footprint measurement and analysis, life cycle assessments through to net zero target setting and SBTi submissions. They pave the way for emissions reduction through renewable energy certifications, carbon offsetting and net zero road mapping.

“THG is committed to tackling climate change and has set ambitious targets to reduce our greenhouse gas emissions across all operations. With our Global Headquarters located in Manchester, we are proud to be working with the Partnership to make a real difference to our local environment and communities.”

Mark Jones, Chief Sustainability Officer, THG



**OVER 1
MILLION
TREES PLANTED
THROUGH THG'S
TREE PLANTING
PROGRAMME
MORE:TREES**

**THG HAS BEEN A
CERTIFIED CARBON
NEUTRAL
COMPANY SINCE
2018**



NET ZERO CARBON SITES BY 2025

Wates construction are aiming to deliver zero carbon site setups across all projects by 2025, capitalising on the experience of their internal Technical Excellence Centre and the accessibility of sustainable solutions within the Wates Innovation Network.

Wates have developed and are trialling net-zero standards for their sites, bringing together a range of standards focused on renewable energy solutions and energy reduction. Key elements include partnership with a low carbon energy provider to ensure that all sites are using electricity, derived from 100% renewable sources, use of energy efficient hybrid generators and switching to electric-powered equipment.

“Wates are committed to leading the construction sector by example as part of the UK’s broader target to achieve net-zero by 2050. Wates understand that to drive tangible, long lasting, long-term change, it is vital that we seek to collaborate with external organisations and support wider society through partnerships and engagement. By joining the partnership, we hope to drive positive change and by connecting our in-house capabilities to support the Manchester Climate Change Partnership, we are confident we can add real value to the partnership.”

Heath Mansell, Regional Sustainability Manager, The Wates Group

“As a business we are continually looking for ways to improve our performance when it comes to opportunities to decarbonise quicker and more efficiently. The Manchester Climate Change Partnership gives Wates a unique opportunity to be part of Manchester’s journey to a zero carbon future and through this process, to share thoughts and ideas via peer-to-peer learning with likeminded people and organisations, in our efforts to achieve a shared goal.”



2025
AIM TO DEVELOP
ZERO CARBON
SITE SETUPS
ACROSS ALL
PROJECTS

CO-BENEFITS
SIGNIFICANT
COMMERCIAL
SAVINGS MADE
FROM REDUCED
FUEL
CONSUMPTION
AND LOWER
DEMAND FOR
ENERGY



DECARBONISATION OF THE UNIVERSITY'S INVESTMENTS

The University of Manchester holds an endowment investment portfolio valued at over £200m, which it invests across a range of asset classes, including equities, property, cash, fixed income and pooled funds.

In May 2020, the University adopted a new Policy for Responsible Investment, which set out a commitment to decarbonise its investment portfolio to reach net zero by 2038 and to reduce the weighted average carbon intensity of equity holdings by 30% by 2022.

During 2021 the University divested from all direct shareholdings in coal, oil and gas companies and took positive action to invest in a sustainable global equities fund which tracks against a Paris-Aligned benchmark index.

“When we set out this policy, we were clear that we wanted to be more radical than simply removing our investment from fossil fuel companies. We wanted to actively tilt our investment portfolio towards more carbon-efficient companies. While there is more to do, I’m really pleased that we’ve exceeded our target in our first year.”

Professor Nalin Thakkar, Vice-President, University of Manchester

“We must work together, across all sectors and walks of life, if we’re to effectively tackle climate change. Manchester Climate Change Partnership enables us to have a voice at the table, share our successes and challenges, learn from others and show that we’re committed to hitting the city’s carbon targets.”

**Richard Smith, Head of Environmental Sustainability,
University of Manchester**



37%
**REDUCTION IN
THE WEIGHTED
AVERAGE
CARBON
INTENSITY OF
EQUITY
HOLDINGS
WITHIN THE
UNIVERSITY'S
INVESTMENT
PORTFOLIO – 7%
ABOVE THE
TARGET**



MANCHESTER CLIMATE CHANGE AGENCY

Manchester Climate Change Agency is a not-for-profit Community Interest Company with an independent Board of Directors that provide strategic governance and oversight to the Agency’s activities; they bring a wealth of experience in business management, organisational development, legal and financial matters, and large-scale climate and sustainability programmes.

The Agency was established in 2015 and has been through a period of significant change since October 2021 and covering the period of this report; this has brought a renewed focus on delivering impactful and inclusive programmes of work, and on catalysing innovative and proactive climate action through the Climate Change Partnership and other networks.

The Agency’s objective is to:

- Deliver activities which benefit the community and to undertake activities that support, encourage and enable individuals and organisations, across Manchester and beyond, to take action on climate change.

The Agency’s strategic priorities are to help Manchester to:

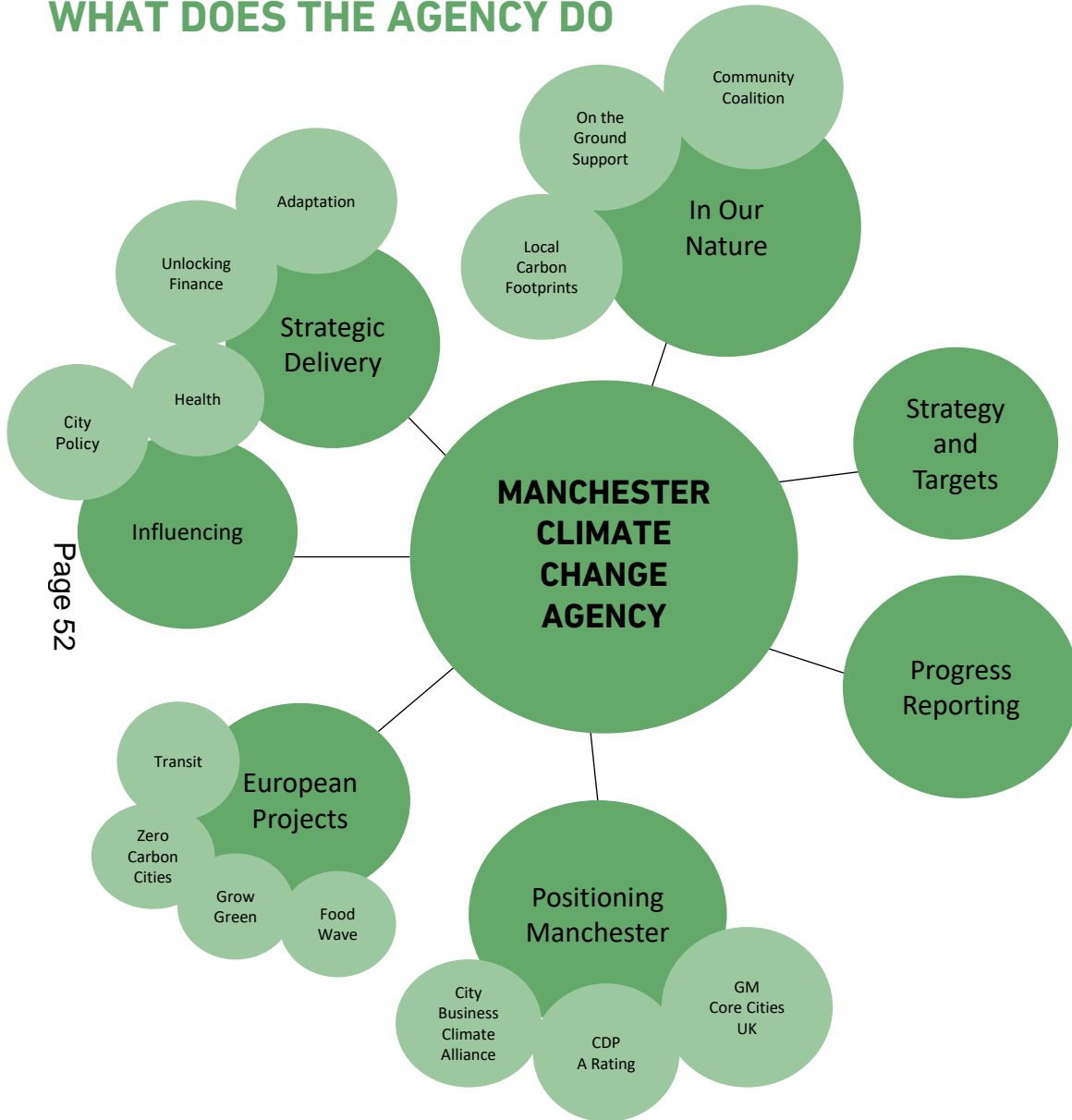
- Set the right strategy and targets and understand its progress towards them.
- Take action, learn from others and build on best practice.
- Ensure an inclusive, just transition to a net zero, climate resilient city.
- Position the city as a climate leader.
- Ensure an active and engaged Climate Change Partnership.

£2.7m
FUNDING
SECURED FOR
MANCHESTER



8
MEMBERS OF
STAFF

WHAT DOES THE AGENCY DO



Page 52

Manchester Climate Change Agency delivers a range of activities that support Manchester’s transition to a zero carbon, climate resilient city.

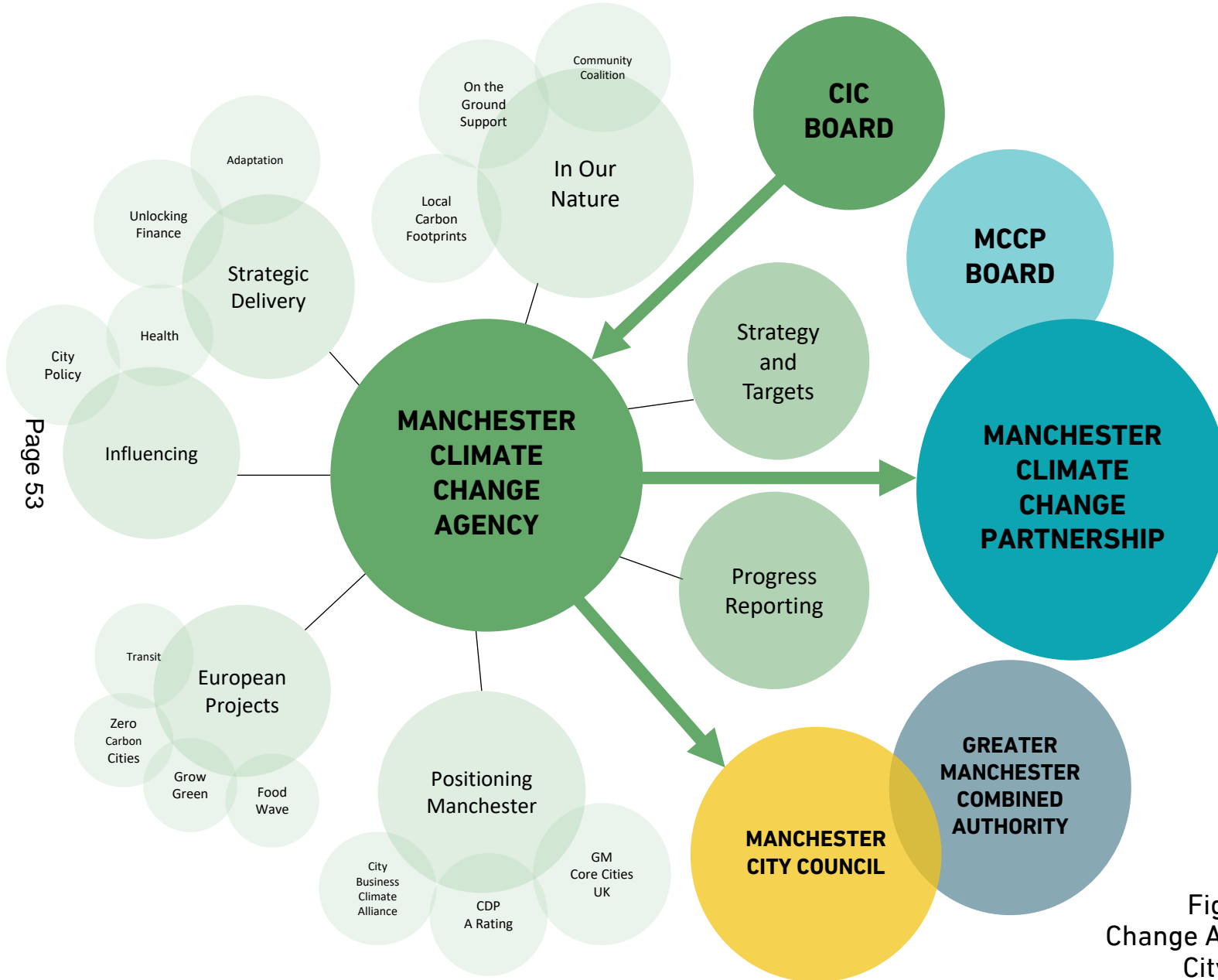
This includes delivering grant-funded programmes with UK and EU partners on:

- Taking **community-led climate action**
- Developing **science-based targets for cities**
- Raising awareness of **sustainable food** with young people
- Implementing **nature-based solutions** to climate adaptation
- Promoting **renewable energy**

The Agency also helps to progress the **strategic priorities** of the city’s Climate Change Framework and to **position Manchester as a climate leader**, including:

- **Adapting the city** to a changing climate
- **Unlocking finance** for the transition to net zero
- **Tackling health inequalities** associated with climate change
- Working with **international cities** on business collaboration
- Sharing best practice with **UK Core Cities**
- Securing an **A list rating from CDP**

Figure 8: a diagram to provide an overview of the impact of the Manchester Climate Change Agency and its key outputs.



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The Board of the Community Interest Company meet quarterly to provide strategic direction to the Agency.

The Agency works closely with the Partnership, the City Council, and Greater Manchester Combined Authority to mobilise and accelerate climate action (as shown in figure 9). Between 2022 and 2023 this included:

- Working with the Partnership to **set the city's climate change strategy and targets** via the 2022 Update to Manchester's Climate Change Framework and **reporting the city's progress** towards its climate change goals.
- **Catalysing and convening Partnership initiatives** including City Challenges, Peer to Peer learning, Advisory Groups, Networking, Virtual Teams and the Youth Partnership.
- **Collaborating** with Manchester City Council and Greater Manchester Combined Authority to deliver shared objectives and climate action plans.

Appendix 1, Item 5

Figure 9: a diagram to show how the Manchester Climate Change Agency works closely with the Partnership, Manchester City Council and Greater Manchester Combined Authority.

IN OUR NATURE

In Our Nature is a community climate programme led by the Agency. It began with an 18-month development grant from the National Lottery's Climate Action Fund, completing in August 2022, that tested the appetite of communities in Manchester for targeted support on local climate action and trialled different climate campaigns and engagement methods.

It worked with six community groups across Levenshulme, Rusholme, Hulme, Moss Side, Miles Platting, Newton Heath and the Northern Quarter to build capacity for local action and to deliver projects on the ground including home energy efficiency workshops, gardening takeover days, community fridges, a walk-in wardrobe and library of things, and urban planters.



IN OUR NATURE & OUR FAITH OUR PLANET

Our Faith Our Planet is an inter-faith network in Manchester focused on climate change action through engagement and education. In Our Nature worked with the leaders of four different faith buildings to investigate the potential for improved sustainability.

A simple checklist was developed to identify the energy, water and material use in each building and by its users. A tailored report was produced for each site to capture how improvements could be made.



£200,000
NATIONAL
LOTTERY
DEVELOPMENT
FUNDING

4,700
INDIVIDUALS
ACTIVELY
ENGAGED
THROUGH
PROJECTS AND
EVENTS

MANCHESTER
CLIMATE CHANGE AGENCY



MANCHESTER
CLIMATE CHANGE PARTNERSHIP

SHARED ACTION FOR
OUR ZERO CARBON CITY



IN OUR NATURE

In September 2022, the Agency secured £2.5m from the National Lottery's Climate Action Fund to scale-up our activity and deliver a three year In Our Nature programme. We expanded our delivery partnership and attracted additional match funding of £1m including from the Wates Family Enterprise Trust.

IN OUR NATURE WILL:

- Help Manchester residents to design and implement over 50 community-led projects to tackle climate change in a way that is meaningful to them and their local priorities.
- Provide on-the-ground support to community groups in ten wards across north, central and south Manchester and make indirect-financial support available to at least ten more.
- Develop local carbon footprints for all 32 wards in Manchester to help communities design impactful projects that ensure the city remains within its carbon budget.
- Produce simple and practical resources to inspire and support residents across the city to take climate action, including case studies, toolkits and how-to guides on a range of topics.
- Deliver opportunities for residents to grow their capacity for collaboration and climate action, uncovering local climate champions and unleashing their power for change.
- Establish a Community Coalition of local residents to facilitate collaboration, amplify success, share ideas and lessons learned, and become ambassadors for climate action in Manchester – building a city-wide movement.

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45

£2.5 million
NATIONAL LOTTERY
FUNDING

50
COMMUNITY-LED
PROJECTS

32
LOCAL CARBON
FOOTPRINTS

In Our Nature is a collaboration between

MANCHESTER
CLIMATE CHANGE
AGENCY



Registered charity no. 1158700



Tyndall°Centre **22**
for Climate Change Research **years**

GROUNDWORK
GREATER MANCHESTER



MANCHESTER
CITY COUNCIL

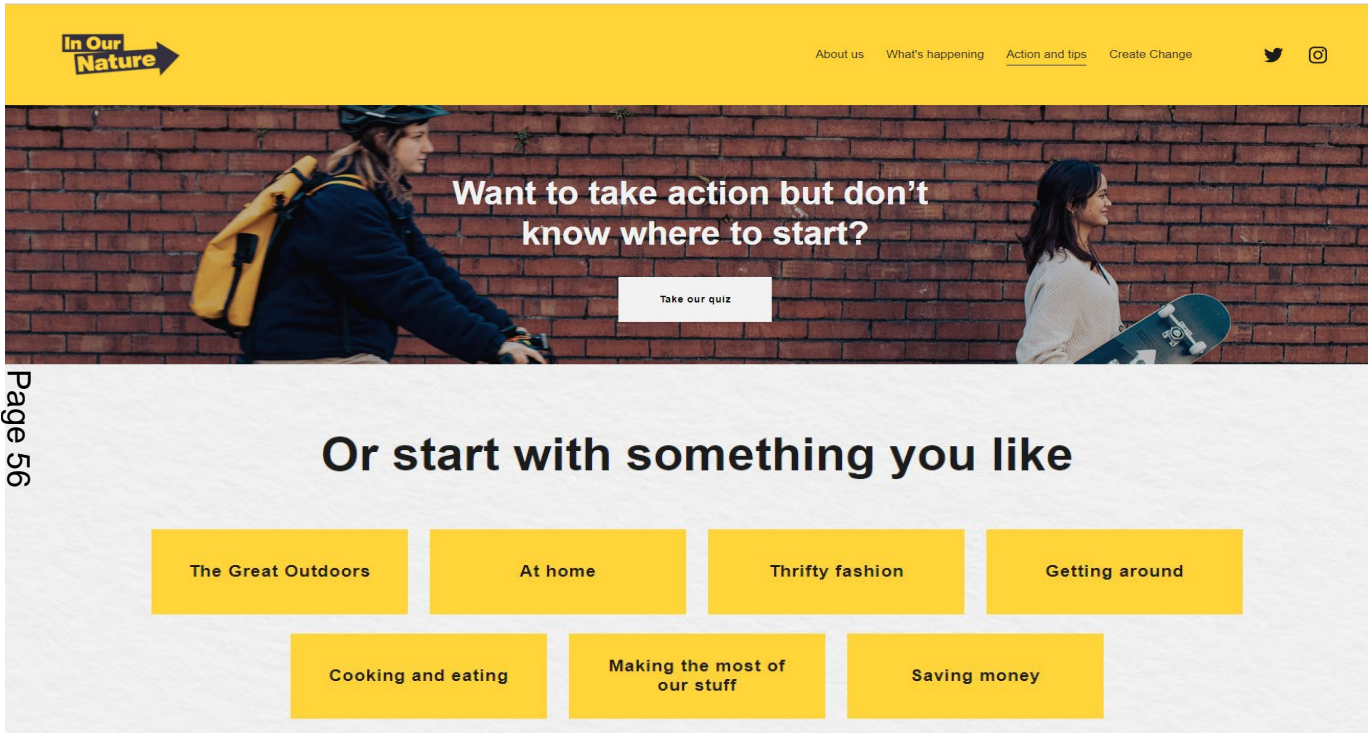


It is funded by the National Lottery and a coalition of funding partners.

Appendix 1, Item 5

IN OUR NATURE

A new In Our Nature website was launched at the start of 2023 to deliver engaging, inclusive, and accessible information to help residents and community groups make climate action an easy and rewarding part of their lives.



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RESOURCE HUB

The website is a hub for community resources to inspire action.

It includes simple tips that save money at home and showcases real people making a difference across the city.

TO FIND OUT MORE, VISIT:
www.inournature.uk

FOLLOW US AT:
[@InOurNatureMCR](https://twitter.com/InOurNatureMCR)

34,000+
WEBSITE VISITORS

6,600+
SOCIAL MEDIA FOLLOWERS

55,000+
ENGAGEMENTS ON SOCIAL MEDIA



Buying, borrowing and renting bikes in Manchester



10 tips for keeping cool in hot weather



What to do with old clothes



5 ways to reuse cooking oils outside of the kitchen



How to get recycling right in Manchester

ADAPTATION AND RESILIENCE TO CLIMATE CHANGE

Manchester’s Climate Change Framework calls for bold action to adapt the city’s buildings, infrastructure, and natural environment and to increase the resilience of our residents and organisations to an already changing climate.

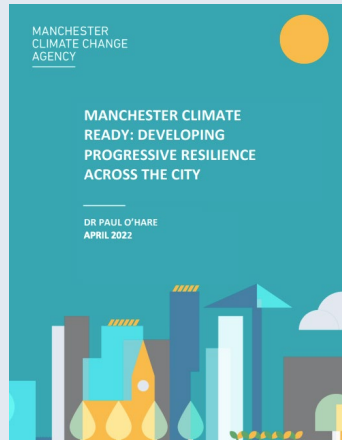
MANCHESTER CLIMATE READY: PROGRESSIVE RESILIENCE

Building on the 2021 ‘Framework for understanding hazards and vulnerability’, Manchester Metropolitan University, the Partnership’s Adaptation and Resilience Advisory Group, and the Agency worked collaboratively to produce ‘Manchester Climate Ready: developing progressive resilience across the city’ in 2022.

It sets out a vision for a more climate resilient Manchester that enhances the capacity of the city to adapt to future climate shocks and stresses and that is aligned with broader progressive agendas on health, social justice, biodiversity and a sustainable, inclusive economy.

It identifies seven defining principles of progressive resilience including increasing strategic capacity, embedding resilience into policy, enhancing green and blue infrastructure, and encouraging research and innovation.

It lists practical actions against the seven principles for a range of stakeholders including communities and individuals, businesses, and local government.



MANCHESTER CLIMATE READY: WEBSITE

A new website was launched in mid-2022 by the Agency and MMU to explain adaptation and resilience in simple language and to present examples of good practice in Manchester and beyond including green walls, sustainable urban drainage, flood risk management, urban tree planting, rainwater harvesting, and business continuity planning.

NATURE BASED SOLUTIONS

The Agency worked with CDP to include Manchester’s West Gorton ‘Sponge Park’ as a best practice example of using nature to adapt to climate change in their March 2023 report ‘Building Local Resilience: Climate Adaptation in UK Local Authorities’.

TO FIND OUT MORE, VISIT:

- www.manchesterclimate.com/content/2022-update
- www.manchesterclimateready.com
- www.cdp.net/en/reports/archive



ADAPTATION AND RESILIENCE: LOCAL CLIMATE PROJECTIONS AND HEAT RISK IN MANCHESTER

Understanding how the climate will change over time is key to being able to adapt the city and protect vulnerable communities and infrastructure. In 2022, the Agency worked with the Met Office and local partners Manchester City Council and Manchester Metropolitan University on a series of resources to help decision-makers plan for the future and ensure Manchester becomes more resilient to climate change.

MET OFFICE COLLABORATION

The **Manchester City Pack** provides high-level, non-technical summaries of climate change projections for Manchester. It sets out the negative impacts of climate change for urban areas including heat, drought, drainage, rainfall, transport disruption and energy infrastructure failure. It predicts warmer, wetter winters and hotter, drier summers.

The **Manchester Heat Pack** provides information on how extreme heat events in Manchester may change this century, their impacts, and how to build resilience to them. It sets out the negative impacts of extreme heat including increased mortality, overheating of buildings, reduced productivity, increased energy demand and transport disruption.

The **Manchester Heat Risk Story Map** overlays climate data on extreme heat with socio-economic data to show where and who is most vulnerable to extreme heat under current and future climate change. It examines the hazard exposure, sensitivity, and adaptive capacity of the 32 wards in Manchester to produce an overall heat vulnerability index, shown in Figure 10 to the right.

TO FIND OUT MORE, VISIT:

www.metoffice.gov.uk/research/approach/collaboration/spf/ukcrp-outputs

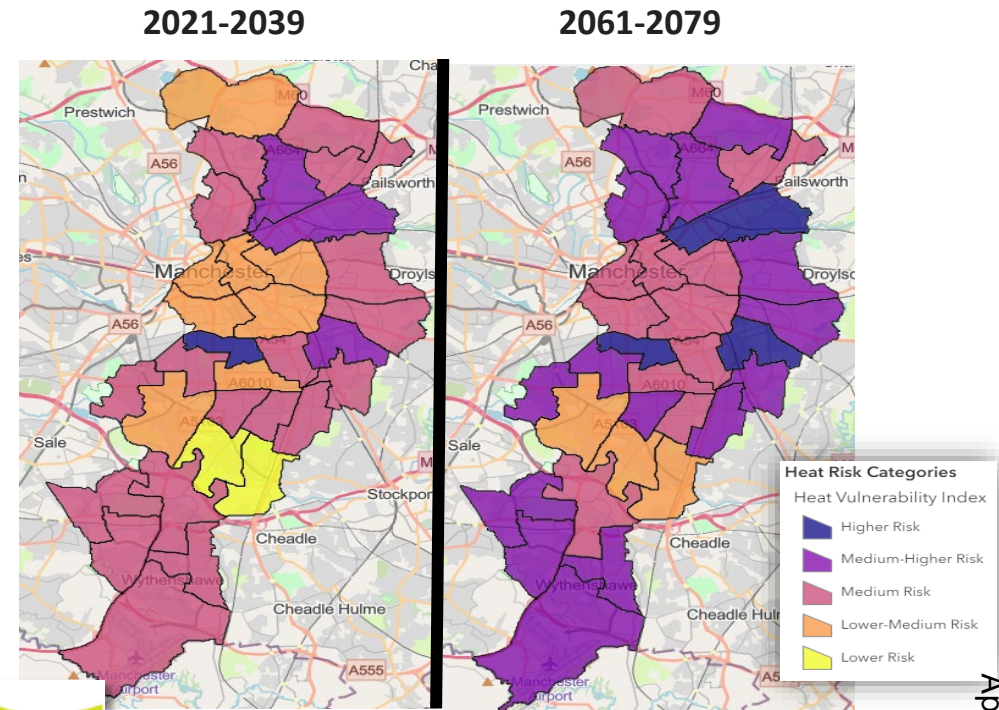


Figure 10: shows how heat risk will change over the 21st Century



HEALTH, WELLBEING AND CLIMATE CHANGE

Manchester's Climate Change Framework states that the actions we need to take to reduce our CO₂ emissions and adapt the city to climate change also have the potential to improve the health & wellbeing of Manchester's residents. Equally, actions that improve our health and wellbeing can also help to tackle the climate crisis.

MAKING MANCHESTER FAIRER

In response to 'Build Back Fairer in Greater Manchester: Health Equity and Dignified Lives', which set out bold and ambitious recommendations on how to reduce health inequities and build back fairer from the COVID-19 pandemic, Manchester established a task group to develop an action plan to tackle health inequalities in the city.

The Agency was co-lead for climate change alongside Manchester City Council within this task group and the resulting 'Making Manchester Fairer Action Plan' sets out how Manchester will adopt a whole system approach to addressing health inequalities and clearly articulates the links between good public health and positive climate action.

'Places, Transport and Climate Change' is one of eight key themes in the plan and has six associated actions, all of which are aligned to the recommendation and co-benefits of climate action set out in the 2022 Update to Manchester's Climate Change Framework.

TO FIND OUT MORE, VISIT:

www.manchester.gov.uk/makingmanchesterfairer

MAKING MANCHESTER FAIRER



CLIMATE CHANGE POSES A SIGNIFICANT THREAT TO PUBLIC HEALTH

GOOD HEALTH REQUIRES GOOD AIR QUALITY, HOUSING, AND TRANSPORT LINKS, AND ACCESS TO GREEN SPACE

Figure 11: shows the eight themes where action is needed to tackle health inequalities.



FINANCING THE TRANSITION TO NET ZERO

Manchester’s Local Area Energy Plan estimates the cost to decarbonise the city’s local energy system is over £13bn, with £4bn of this needed by 2030. The 2022 Update to Manchester’s Climate Change Framework states that unlocking this finance, in a way that works for everyone, is key to accelerating progress and achieving our ambitious targets. As the scale of capital investment needed is beyond the reach of public finances, new approaches are needed to tackle the complex and interlinked systems in cities and to remove barriers to attracting private sector investment.

INNOVATE UK - NET ZERO LIVING: PATHFINDER PLACES

The Net Zero Living programme aims to help places overcome the challenges of delivering net zero at scale including attracting private finance, co-ordinating multiple stakeholders, engaging with citizens, and navigating procurement and governance processes.

The Agency provided technical support to Manchester City Council, Manchester Metropolitan University, Equans and Bankers Without Boundaries, to secure £75k of grant funding for a feasibility study into a novel approaches to unlocking finance for net zero in Manchester.

The funding was confirmed early in 2023 and positions Manchester as one of 30 pathfinder places in the UK; the study will be delivered between April-June 2023.

It will explore the barriers and opportunities of a neighbourhood model that bundles together building retrofit, renewable energy generation and storage, heat networks, demand responsive transport systems, and electricity grid upgrades with sustainable urban drainage, town centre regeneration and public realm improvements to attract a blended portfolio of public and private sector financial investment at scale. It will also explore the critical role of community engagement in successful net zero action.



TO FIND OUT MORE, VISIT:
www.iuk.ktn-uk.org/programme/net-zero-living



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Appendix 4, Item 5

INTERNATIONAL BEST PRACTICE: WORKING WITH EUROPE

The Agency has played a key role in developing partnerships with EU organisations and securing funding to deliver large-scale programmes with a significant Manchester footprint spanning several years. This year, two programmes were completed, one entered its final phase, and a fourth was begun. All focus on supporting different aspects of Manchester’s transition to a zero carbon, climate resilient city.

GROW GREEN

Total project value: €11.2 million / £109k to the Agency
Funded by: Horizon Europe
Project duration: June 2017 - November 2022
Project overview: Seven cities in Europe and China demonstrated nature-based solutions that tackle flood risk and heat stress, in Manchester this resulted in West Gorton Sponge Park and fed learning into Victoria North and Mayfield.

FOODWAVE

Total project value: €7.7 million / £20k to the Agency
Funded by: EU DEAR Fund
Project duration: December 2019 – November 2023
Project overview: Active in 17 countries across Europe and Brazil to co-develop knowledge and action with young people on sustainable approaches to consuming and producing food in cities and seeks to inform and influence food related policy and decision making.

ZERO CARBON CITIES

Total project value: €850k / £113k to the Agency
Funded by: EU URBACT
Project duration: June 2019 - August 2022
Project overview: A network of seven European cities developing science-based targets for carbon reduction and the associated action plans and local policies needed to mobilise delivery.

TRANSIT

Total project value: €2.5 million / £85k to the Agency
Funded by: Horizon Europe and UKRI
Project duration: October 2022 - September 2025
Project overview: 12 partners in eight European countries raising awareness of renewable energy as an emerging technology and rewarding career path with stakeholders in academia, industry, policy makers and local communities.



INTERNATIONAL BEST PRACTICE: CITY-BUSINESS COLLABORATION

The Agency recognises the value in learning from other cities taking climate action as we face similar challenges, despite geographic or political differences, and we strive to position Manchester as a climate leading city through working in partnership on a global scale.

CITY-BUSINESS CLIMATE ALLIANCE

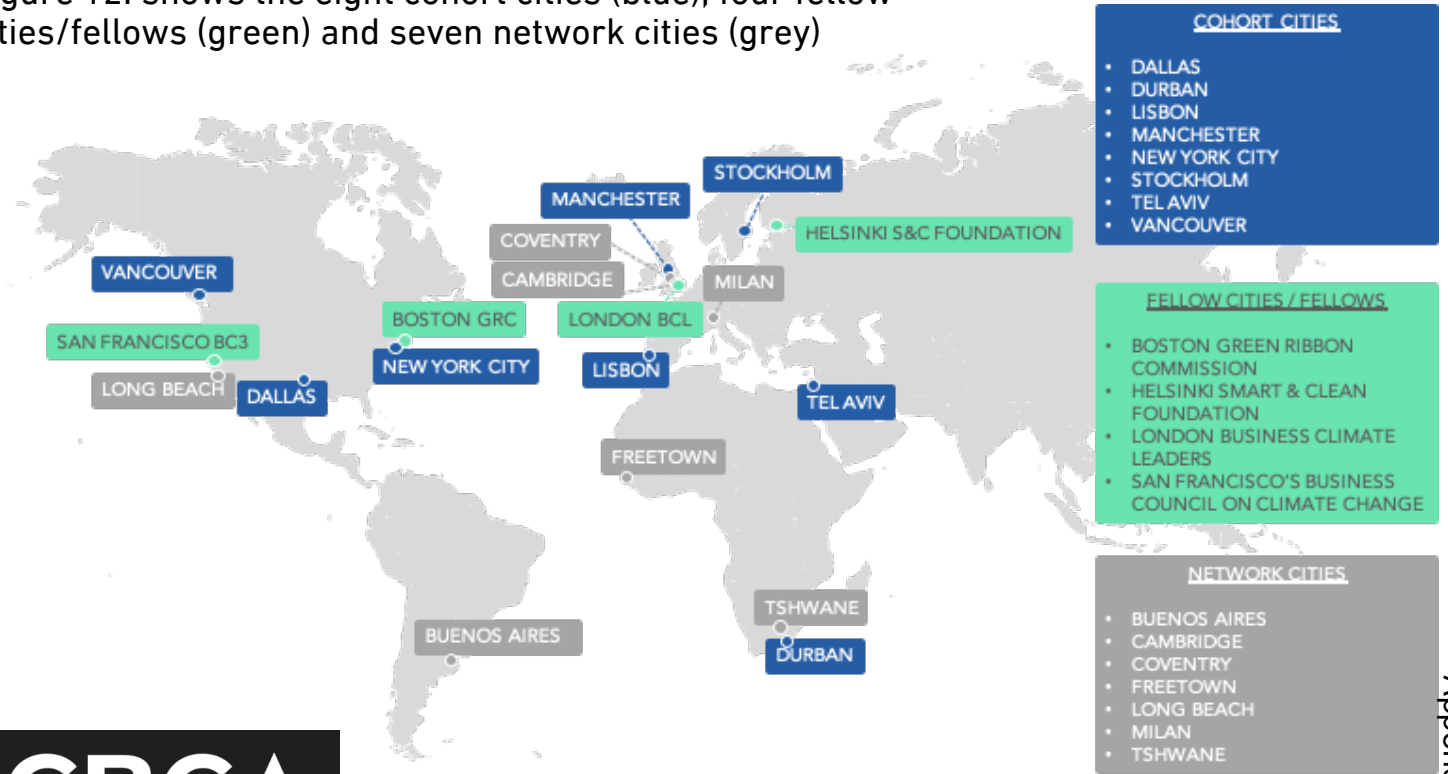
From 2020-2022 the Agency and Partnership worked with CDP, C40 Cities, and the World Business Council for Sustainable Development on the City-Business Climate Alliance (CBCA) initiative.

Manchester was one of eight 'Cohort Cities' alongside Dallas, Durban, Lisbon, New York, Stockholm, Tel Aviv and Vancouver to be invited to participate in the first phase of the CBCA initiative.

The Alliance supported several business workshops that fed into the 2022 Update of the Manchester Climate Change Framework and brought insight to the Partnership's new initiatives on net zero new buildings, commercial building retrofit, and setting and reporting on science-based targets.

The Alliance also provided international collaboration opportunities with workshops completed with New York and Texas, and presentations from Manchester to all members of the CBCA.

Figure 12: shows the eight cohort cities (blue), four fellow cities/fellows (green) and seven network cities (grey)



TO FIND OUT MORE, VISIT:

www.city-businessclimatealliance.org



POSITIONING MANCHESTER AS A CLIMATE LEADER

The Agency seeks to position Manchester as a climate leader through partnering with other cities in European programmes and international initiatives like the City Business Climate Alliance. Importantly, we also strive to secure external recognition and validation for Manchester’s leadership, action and collaborative approach to climate change through transparent reporting on our targets, strategies, and projects to CDP.

CDP ‘A LIST’ CITY

In 2022 Manchester was named by CDP as one of just 122 ‘A List’ cities across the globe who are leading on environmental action.

The CDP’s fifth annual A list recognises cities that have received the highest score for their transparency and bold climate action, and celebrates their achievement, vision and commitment in the fight against climate change.

To score an A, among other actions, a city must disclose environmental data publicly through CDP-ICLEI Track, have a city-wide emissions inventory and have published a climate action plan; it must complete a climate risk and vulnerability assessment and have a climate adaptation plan to demonstrate how it will tackle climate hazards; it must have a long-term and mid-term target for emissions reduction that is science-based and aligned with a fair share of limiting global warming to 1.5°C.

A list cities are demonstrating their climate leadership through concerted and effective action and are taking three times as many mitigation and adaptation measures as non-A list cities.



1 OF 122
GLOBAL CITIES TO
MAKE THE A LIST

MANCHESTER IN
TOP 12%
OF 1,000+ GLOBAL
CITIES DISCLOSING
TO CDP

The Agency has been compiling Manchester’s CDP submission since 2019. In 2022, as scoring criteria were strengthened, we put additional resource into positioning Manchester on the international stage. Over 1,000 global cities were scored by CDP, with only 122 (12%) achieving the top score and making the A list.

TO FIND OUT MORE, VISIT:

www.cdp.net/en/cities/cities-scores



THANK YOU TO EVERYONE HELPING THE CITY BECOME ZERO CARBON AND CLIMATE RESILIENT

SAM NICHOLSON

Director, Manchester Climate Change Agency
Deputy Director, Manchester Climate Change Partnership

“Thank you to everyone who has given their time, energy and expertise to Manchester Climate Change Partnership initiatives and to Manchester Climate Change Agency programmes over the last year. Thanks also to the Agency team, Partnership members, and to the CIC Board and MCCP Board.

Together you’re demonstrating that collaborative action can accelerate our transition to a zero carbon, climate resilient city, and inspiring more people and organisations to help tackle the climate crisis.”

**FIND OUT MORE, FOLLOW US OR
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