



Environment and Climate Change Scrutiny Committee

Date: Thursday, 11 November 2021

Time: 10.00 am

Venue: Council Chamber, Level 2, Town Hall Extension

Everyone is welcome to attend this committee meeting.

There will be a private meeting for Members of the Committee at 9.30 am in the Council Chamber.

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Filming and broadcast of the meeting

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Membership of the Environment and Climate Change Scrutiny Committee

Councillors - Chohan, Flanagan, Foley, Hassan, Holt, Hughes, Igbon (Chair), Jeavons, Lynch, Lyons, Razaq, Sadler, Shilton Godwin and Wright

Agenda

1. Urgent Business

To consider any items which the Chair has agreed to have submitted as urgent.

2. Appeals

To consider any appeals from the public against refusal to allow inspection of background documents and/or the inclusion of items in the confidential part of the agenda.

3. Interests

To allow Members an opportunity to declare any personal, prejudicial or disclosable pecuniary interest they might have in any items which appear on this agenda; and [b] record any items from which they are precluded from voting as a result of Council Tax/Council rent arrears. Members with a personal interest should declare that interest at the start of the item under consideration. If members also have a prejudicial or disclosable pecuniary interest they must withdraw from the meeting during the consideration of the item.

4. Minutes

To approve as a correct record the minutes of the meeting held on 14 October 2021.

5 - 14

5. 2022/23 Budget Position - To follow

6. Approach to Flood Prevention and Management

Report of the Strategic Director (Neighbourhoods)

15 - 30

This report provides the Committee with an overview of the approach to flood prevention and management.

At the meeting the Committee will receive a presentation entitled 'How the Environment Agency respond to flooding' that will be delivered by representatives from the Environment Agency.

7. Neighbourhood Teams In Developing Local Climate Change Activity

Report of the Strategic Director (Neighbourhoods)

31 - 60

The report provides information on how the Neighbourhood Teams are supporting local communities to engage in local climate change activity and reduce carbon emissions.

8. Manchester City Council Estates Decarbonisation

Report of the Head of Estates and Facilities

61 - 76

This report describes the activities and progress to date on the

decarbonisation of Manchester City Council's operational estate.

9. Overview Report

77 - 84

Report of the Governance and Scrutiny Support Unit

This is a monthly report, which includes the recommendations monitor, relevant key decisions, the Committee's work programme and any items for information.

Information about the Committee

Scrutiny Committees represent the interests of local people about important issues that affect them. They look at how the decisions, policies and services of the Council and other key public agencies impact on the city and its residents. Scrutiny Committees do not take decisions but can make recommendations to decision-makers about how they are delivering the Manchester Strategy, an agreed vision for a better Manchester that is shared by public agencies across the city.

The Environment and Climate Change Scrutiny Committee areas of interest include The Climate Change Strategy, Waste, Carbon Emissions, Neighbourhood Working, Flood Management, Planning policy and related enforcement and Parks and Green Spaces.

The Council wants to consult people as fully as possible before making decisions that affect them. Members of the public do not have a right to speak at meetings but may do so if invited by the Chair. If you have a special interest in an item on the agenda and want to speak, tell the Committee Officer, who will pass on your request to the Chair. Groups of people will usually be asked to nominate a spokesperson. The Council wants its meetings to be as open as possible but occasionally there will be some confidential business. Brief reasons for confidentiality will be shown on the agenda sheet.

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Smoking is not allowed in Council buildings.

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Further Information

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

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This agenda was issued on **Wednesday 3 November 2021** by the Governance and Scrutiny Support Unit, Manchester City Council, Level 3, Town Hall Extension , Manchester M60 2LA

Environment and Climate Change Scrutiny Committee

Minutes of the meeting held on 14 October 2021

Present:

Councillor Igbon – in the Chair
Councillors Flanagan, Foley, Holt, Hughes, Lyons, Sadler, Shilton Godwin and Wright

Apologies: Councillors Hassan, Jeavons, Lynch and Razaq

Also present:

Councillor Rawlins, Executive Member for Environment
Richard Elliott, Interim Policy and Strategy Advisor, Manchester Climate Change Agency
Samantha Nicholson, Director, Manchester Climate Change Agency
Jo Wall, Strategic Director, Local Partnerships

ECCSC/21/19 Minutes

A Member enquired when the requested list of all organisations in Manchester that had signed up to the MCCA and a list of all those that had not, and where available the reasons for not signing up would be provided. (See ECCSC/21/16 Manchester Climate Change Agency Progress Report 2021/22).

The Executive Member for Environment stated that she would action this request following the meeting.

Decision

To approve the minutes of the meeting held on 9 September 2021 as a correct record.

ECCSC/21/20 Waste, Recycling and Street Cleansing Update

The Committee considered the report of the Strategic Director (Neighbourhoods) that provided an update on progress in delivering waste, recycling, and street cleansing services, describing how the activity contributed to the climate change agenda and key priorities for the future, including an update on the English Resources and Waste Strategy (2018).

Key points and themes in the report included:

- An introduction to the service area;
- Impact of the Pandemic (COVID-19) and Brexit;
- Biffa Performance Update;
- Bin collections;
- Electric Refuse Collection Vehicles (eRCV);
- Fly tipping and the Fly Tip Intervention Investment;
- Keep Manchester Tidy campaigns, including case studies;

- Recycling Campaigns and Initiatives; and
- Conclusions and Next Steps

Some of the key points that arose from the Committee's discussions were: -

- Questioning the cleansing scores given to cycle lanes, noting the prevalence of littering from motor vehicles;
- The need for a specific campaign to tackle the issue of litter discarded from motor vehicles;
- Noting that assisted collections were important for those residents that required them;
- More needed to be done to engage with businesses to reduce commercial waste and excessive packaging;
- What was the process to review the Biffa contract ahead of the break point and would Members be involved in these discussions;
- That a rebalancing of services between the city centre and district centres should be addressed through any contract negotiations;
- The issue of returning bins remained an ongoing issue;
- More emphasis was required on behaviour change and waste with the need to repair, reduce and recycle more;
- Behaviour change need to be included in each ward plan, including utilising the local Neighbourhood Teams to engage with local schools and business;
- Noting the importance of Carbon Literacy Training;
- Noting the challenges of missed bin collections, particularly in relation to apartment blocks and the need to recognise the need for improved communications between management agencies and caretakers and crews;
- Was the CRM (Customer relationship management) system fit for purpose to report issues;
- Noting issues that had arisen where crews were unable to access locations due to development works or irresponsible parking;
- Biffa needed to work closely with Housing Providers to support the education of residents in regard to what could be recycled and what could be placed in each bin;
- Noting that delays in issuing permits for skips to be placed on the highway were contributing to waste accumulation;
- Discussing if it would be more beneficial to allow commercial waste to be taken to Household Recycling Centres in attempt to save money and reduce the incidents of fly-tipping; and
- Paying tribute to the Biffa crews for their work, particularly during the unique challenges presented by COVID-19.

In reply the Contract Manager, Waste stated that both Biffa and Council Officers conducted NI195 monitoring, a national standard of all areas, including cycleways, both straight after clean and between cleaning cycles, however he accepted that the standards could deteriorate between cleaning.

The Strategic Lead, Waste, Recycling and Street Cleaning stated that discussions regarding the Biffa contract would be an opportunity to discuss the service in the context of the budget.

The Strategic Lead, Waste, Recycling and Street Cleaning stated that assisted collections and the returning of bins had been impacted by COVID-19 and the disruption this had had on the crews. She reassured the Members that officers were working with Biffa to address both these issues, noting the importance of these for residents was recognised.

The Strategic Lead, Waste, Recycling and Street Cleaning commented that options for increasing and promoting repair and recycling opportunities were being explored, including the increased use of social media to advertise local schemes and connect residents. She further recognised the comments regarding behaviour change regarding waste and recycling and noted that tailored initiatives at a ward level could greatly assist in this activity.

The Strategic Lead, Waste, Recycling and Street Cleaning advised that commercial waste was not appropriate for Household Waste and Recycling Centres, noting that it was the duty of all commercial businesses to have a waste management strategy. The Strategic Director (Neighbourhoods) advised it was important to recognise that there was often criminality associated with fly-tipping. She made reference to the recent press reports where prosecutions had been taken against perpetrators, adding that these had been achieved by working collaboratively with different agencies, including Greater Manchester Police.

The Strategic Director (Neighbourhoods) addressed the point raised regarding the CRM system by advising that this system would be replaced as part of the wider digital strategy, commenting that senior officers from the service were involved in this process to ensure the replacement service was fit for purpose.

The Strategic Director (Neighbourhoods) stated that the issue raised by the Member regarding the delay in issuing permits for skips would be relayed to the Highways Department for attention. She further commented that access issues were considered when development permissions were granted.

The Neighbourhood Officer updated the Committee on the work underway with seventeen local schools to deliver the Eco Schools programme, in addition to projects that had been delivered with children during the school holidays. She further commented that there was a national Keep Britain Tidy campaign directly designed to address the issues associated with student accommodation.

The Executive Member for Environment encouraged Members to undertake a visit to the Longley Lane Household Recycling Centre and she would arrange visits for Members. She further supported the discussion regarding the inclusion of waste and recycling behaviour change in all ward plans. She further commented that discussions were ongoing with local Universities and landlords to tackle the waste issues associated with student accommodation. She also advised the Members that discussions were ongoing at a Greater Manchester level to explore the options for improved messaging regarding the recycling opportunities at recycling centres.

Decision

The Committee recommend that the Executive Member for Housing and Employment discuss with all local housing providers the options for supporting their residents to increase their recycling.

ECCSC/21/21 Climate Change Action Plan Quarterly Progress Report, Q2 July - September 2021

The Committee considered the report of the Deputy Chief Executive and City Treasurer that provided a progress update on delivery of the Council's Climate Change Action Plan for Quarter 2 2021-22 (July-September 2021).

Some of the key points that arose from the Committee's discussions were: -

- Reiterating the call for the need to emphasise the urgency of the issue of climate change and the need for all citizens and organisations to take immediate action to address this;
- Recommending that a report be submitted for consideration at an appropriate time that collated all of the other Scrutiny Committees' items on the issue of climate change;
- More information on the modelling that was used to agree and set the suite of targets reported;
- The need to reduce business travel, noting the use of technology during the pandemic to conduct meetings;
- More information was requested on the active travel scheme for staff, with particular reference to the implementation of a mileage scheme for cyclists;
- Was the assistance scheme to purchase a bicycle only applicable to Halfords, noting the need to support local independent traders;
- Any cycle purchase scheme should also use the Council's procurement policies to ensure Social Value was achieved and this should be subject to the appropriate audit process;
- The cycle purchase scheme should also include e-bikes;
- All staff should be encouraged to cycle to work;
- Noting the figures reported in regard to the use of single use plastics at events, and calling for this to be rolled out and publicised;
- Asking that consideration be given to including the Net Zero Carbon New Build Policy that had been launched by the Manchester Climate Change Partnership into local building regulations;
- An update was sought in relation to the Civic Quarter Heat Network;
- Noting that that Carbon Budget spend to date was recorded in the Annual Report that was submitted to the Committee;
- The need to engage all stakeholders and sources of expertise that existed within the city to drive and progress this area of work to deliver the required savings for the city;
- The continued call for all staff to complete the Carbon Literacy training; and
- Consideration should be given to establishing a Climate Clock in the city, similar to that in Glasgow, noting that a Climate Clock was a graphic to demonstrate how quickly the planet was approaching 1.5°C of global warming, given current

emissions trends. It also showed the amount of CO₂ already emitted, and the global warming to date.

The Strategic Lead (Policy and Partnerships) stated that consideration was being given as to the Net Zero Carbon New Build and how this could be incorporated into the Local Plan. He further advised that the data and outcomes from the single use plastics events were being used to highlight the scale of the issue and was a powerful tool to influence local business, adding that such events were gaining in popularity. In response to the comment made regarding business travel, he commented that this would continue to be monitored, and IT was used wherever possible to minimise the need for any such travel. The Deputy Chief Executive and City Treasurer added that there were occasions where in person meetings were required; however, she recognised the comments from the Committee and suggested that a further update on business travel be included in the next reporting cycle. The Executive Member for Environment added that a carpool service was also available for staff to use.

In response to the comment regarding the need to understand the methodology and modelling used to establish and report targets, Officers stated that a training session would be arranged for Members to discuss this further.

The Executive Member for Environment commented that all Scrutiny Committees were encouraged to consider climate change through the lens of their respective remits, and she agreed to update the Committee on this activity. The Chair commented that she would also liaise with the other Scrutiny Chairs on this issue, adding that she had recently had a conversation with the Chair of the Health Scrutiny Committee on this very subject. The Chair further added that she would discuss the issue of Social Value and the cycle purchase scheme with the Chair of the Resources and Governance Scrutiny Committee.

The Strategic Lead (Resources & Programmes) informed the Members that the cycle purchase scheme was not restricted to Halfords and there was a mileage scheme for staff. He stated that he would circulate the information to Members following the meeting.

The Director, MCCA addressed the comments made by a Member regarding the Council's Carbon Budget and the trajectory of savings reported. She advised that 75% of the Council's direct emissions were attributed to the estate and that a detailed plan to decarbonise the estate was established, adding that the Committee had a report on this issue scheduled on their work programme.

The Director, MCCA advised that there was a Carbon Budget for the city, describing that this had been established utilising the expertise of the Tyndall Centre at the University of Manchester. The Strategic Lead (Policy and Partnerships) added that there was an extensive range of partnership working across the city to address climate change.

The Director of Commercial Operations informed the Members that the Civic Quarter Heat Network should be operational from November.

Decisions

The Committee recommend that;

1. The Executive Member for Environment give consideration to establishing a Climate Clock in the city, similar to that in Glasgow;
2. The Executive Member for Environment and Officers arrange a briefing session for Members on the modelling that was used to agree and set the suite of targets reported in the Action Plan.

ECCSC/21/22 Development of Manchester Climate Change Framework 2.0 – Update on Consultation and Development of the Detailed Action Plan

The Committee considered the report of the Manchester Climate Change Agency (MCCA) that provided an update on progress in developing an updated Climate Change Framework for the city (Framework 2.0). It reviewed the responses to the first round of consultation with communities and businesses that would help to inform the Framework and summarised the emerging objectives and proposed actions required to deliver the scale of carbon reduction required across the city. The Framework was intended to provide a more detailed definition of the urgent actions required across the city if Manchester was to remain within its adopted carbon budget and remain on track to be a zero-carbon city by 2038 at the latest.

Key points and themes in the report included:

- An introduction and background;
- Describing the 5 key components of Framework 2.0;
- Describing the process to support the development of the Framework and Action Plan;
- Objectives of the draft Action Plan; and
- An update on activities to involve Manchester Communities and Businesses.

Some of the key points that arose from the Committee's discussions were: -

- An update report was requested that described the outcomes of the Community Assembly;
- The need to prioritise actions and engage with local businesses on the issue of carbon reduction;
- What was the difference between this reported exercise and previous reports;
- The need to be given the opportunity to scrutinise reports in a timely manner; and
- Noting that Manchester Climate Change Youth Board had launched their manifesto on 7 October 2021 and that a full presentation would be delivered to full Council.

In response to the question regarding the Community Assembly, the Director, MCCA informed the Committee that in November 2021, the Citizens' Mandate would be taken to the international COP26 Climate Change Conference in Glasgow, along with an Impact Assessment Report of the process and a film capturing the process, where

it would be presented to delegates and groups from across the world with the help of the COP26 Coalition. The report was due to be completed by 29 October 2021.

In reply to the question regarding the difference between this reported exercise and previous reports, the Interim Policy and Strategy Advisor, MCCA described that Framework 2.0 was a 'deeper dive' across different sectors with the aim of developing specific actions. The Executive Member for Environment commented that it was useful to consider Framework 1 as the theory and Framework 2 as the actions.

In response to the specific issue regarding scrutiny, the Deputy Chief Executive and City Treasurer advised that she discuss this further with the Executive Member for Environment.

Decision

To note the report.

ECCSC/21/23 Large Scale Renewable Energy Generation Feasibility Summary Study

The Committee considered the report of the Deputy Chief Executive and City Treasurer that described that the Council's Climate Change Action Plan (CCAP) has a target to reduce direct emissions of CO₂ by 50% over the five-year period of 2020-25. In addition, the Council has a target to be zero carbon by 2038.

Action 1.4 of the CCAP targets 7,000 tonnes of annual CO₂ by 2025 savings to be delivered via a "feasibility and business case for a large-scale energy generation scheme from large scale Solar PV or Onshore or Offshore Wind on Council land and buildings, or sites in third party ownership".

Local Partnerships were appointed in November 2020 to deliver the feasibility study and their study, "Feasibility Study and Options Appraisal for Large Scale Energy Generation for Manchester City Council", was completed in April 2021 and was appended to the report.

The Feasibility Study concluded that the Council has two options: either purchase a solar PV facility or negotiate a suitable power purchase agreement (PPA). Both options were assessed to be better than the "do nothing" option.

The Committee was invited to comment on the report prior to it being considered by Executive.

Some of the key points that arose from the Committee's discussions were: -

- The need to visualise and articulate what a tonne of CO₂ looks like relative to the amount that is produced;
- Noting the recent energy crisis and the importance of future proofing;
- The need to lobby for increased onshore wind developments;
- The need to promote the Solar Together Greater Manchester group-buying scheme;

- All opportunities for job creation and addressing fuel poverty should be utilised through any development; and
- All opportunities for delivering small local renewable energy schemes should be explored and supported.

The Deputy Chief Executive and City Treasurer advised that the proposed development was the optimum size had been designed with due consideration given to future proofing. She stated that the feasibility study that underpinned the proposal could be shared with Members. She stated that the work would be progressed to deliver this programme and updates reports would be submitted to the Committee for consideration at an appropriate time.

The Strategic Lead - Resources & Programmes stated that the scale of the proposal was necessary to meet the challenge to address the emissions from the Council's estate. He did acknowledge the comments regarding small local renewable energy schemes. The Deputy Chief Executive and City Treasurer informed the Members that work was underway at a Greater Manchester level to look further at small local renewable energy schemes.

The Strategic Director, Local Partnerships acknowledged the comments regarding wind power and commented upon the challenge to deliver these due to Government legislation compared to delivering solar powered schemes. She further commented that it had been evidenced that established solar panel installations benefited the local bio diversity.

Decision

The Committee recommend;

1. That the Executive Member for Environment take every opportunity to lobby for the increased delivery of onshore wind power.
2. That the Executive Member for Environment review the information that is provided to residents regarding climate change to ensure a visual representation of carbon tonnage is included.

The Committee also endorse the recommendations that the Executive;

1. Note the options in Section 3.1 available to the Council; and
2. Agree that the Deputy Chief Executive and City Treasurer and the Chair of the Zero Carbon Coordination Group establish a delivery team to develop the options further, with a view to returning to the Executive with a proposal.

ECCSC/21/24 Overview Report

The report of the Governance and Scrutiny Support Unit which contained key decisions within the Committee's remit and responses to previous recommendations was submitted for comment. Members were also invited to agree the Committee's future work programme.

A Member commented that further information was required that reported the impact on air quality and emission reductions of any proposals to reduce the speed limit on the Mancunian Way. The Strategic Director (Neighbourhoods) stated that any proposed changes would be subject to a formal consultation process.

A member commented that regular reports on the issue of Clean Air should be included as an item on the work programme. The Chair advised that she had noted the comment and would discuss this further with officers following the meeting.

Following discussions at the meeting of the Neighbourhoods and Environment Scrutiny Committee of January 2021 an update was sought on the recommendation to establish a bespoke Manchester Considerate Constructors Scheme. The Chair advised that she had noted the comment and would discuss this further with the Executive Member for Environment following the meeting.

Members discussed the scope of the 'Neighbourhood Working to address climate change' report that was scheduled for the November meeting and how the carbon reductions would be reported against a range of activities. The Strategic Director (Neighbourhoods) advised that she had noted the comments and would discuss this with the officer preparing the report.

Decision

The Committee note the report and agree the work programme, noting the above comments.

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**Manchester City Council
Report for Information**

Report to: Environment and Climate Change Scrutiny Committee - 11 November 2021

Subject: Approach to Flood Prevention and Management

Report of: Strategic Director (Neighbourhoods)

Summary

This report provides the Committee with an overview of the approach to flood prevention and management including:

- How this is coordinated locally and how this is delivered with neighbouring authorities that impact on Manchester.
- Flood Risk Management and Resilience.
- Lessons learnt from previous recent events.
- Role of the Civil Contingencies Unit.
- Information on the strategies and planning in relation to local reservoirs.

Recommendations

Committee members are asked to note and provide comments on the report.

Wards Affected: All

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| Environmental Impact Assessment - the impact of the issues addressed in this report on achieving the zero-carbon target for the city |
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| Flooding events are often a result of severe weather events caused by climate change. Measures to prevent and manage flooding, particularly green infrastructure projects and nature-based solutions can contribute to carbon reduction. |
|--|

| Manchester Strategy outcomes | Summary of how this report aligns to the OMS |
|---|---|
| A thriving and sustainable city: supporting a diverse and distinctive economy that creates jobs and opportunities | Measures to improve flood defences, contributes to job creation and to protecting infrastructure which has a positive impact on both residents and businesses |
| A highly skilled city: world class and home-grown talent sustaining the city's economic success | Measures to improve flood defences, contributes to job creation and to protecting infrastructure which has a positive impact on both residents and businesses |

| | |
|--|---|
| A progressive and equitable city: making a positive contribution by unlocking the potential of our communities | The poorest people are often the most disadvantaged by the impacts of flooding. Measures to improve flood resilience and involving communities in doing this contributes to unlocking potential within communities. |
| A liveable and low carbon city: a destination of choice to live, visit, work | Flooding is often linked to the effects of climate change. Green infrastructure flood protection measures and nature-based solutions may also contribute to carbon reduction |
| A connected city: world class infrastructure and connectivity to drive growth | Flooding events can cause significant disruption to transport and other infrastructure. Improving responses to flooding and flood defences protects critical infrastructure which is important to driving growth |

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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.

Report to Greater Manchester Combined Authority 10 September 2021: Response to Flood Risk Management Issues

Report to Greater Manchester Combined Authority 24 September 2021: GMCA, Environment Agency and United Utilities Memorandum of Understanding

1.0 Background

- 1.1 In recent years flooding incidents have become more prevalent across Greater Manchester. Fortunately, Manchester has not experienced the significant damage experienced by some neighbouring authorities during the Storm Eva Boxing Day floods of 2015 but the recent Storm Christoph in January this year threatened widespread flooding across Greater Manchester with the river Mersey reaching unprecedented levels and resulting in the evacuation of 3000 properties across Didsbury and Northenden.
- 1.2 Current estimates suggest that across Greater Manchester there are more than 48,000 properties at risk from river flooding. (Source: Environment Agency). When flooding occurs it can impact, not only those whose homes are flooded, but also essential transport services, energy and water infrastructure, schools and workplaces. Flooding remains one of the greatest risks identified on the Greater Manchester Community Risk Register. Through climate change this risk is increasing, resources are limited and further investment in flood defences is required.
- 1.3 Flood risk management includes actions to prepare, respond and recover from flood events. Engineering alone is not a solution, as climate change is increasing the intensity of rainfall and the cost to re-build the entire sewer network and increasing the height of existing defences would be prohibitive and disruptive. Hard defences also require long term maintenance and an upgrade once they no longer provide the necessary standard of protection. A mix of solutions is required for example, green infrastructure such as sustainable drainage systems (SuDs) and other nature-based solutions across catchments and within urban areas making space for water whilst slowing the flow. As explained below flood risk and water management issues are responsibilities that cut across many organisations, nationally, regionally and locally.
- 1.4 The legislation governing flood risk management is The Flood and Water Management Act 2010 which provides for better, more comprehensive management of flood risk for people, homes and businesses, helps safeguard community groups from unaffordable rises in surface water drainage charges, and protects water supplies to the consumer. This act also aims to reduce the flood risk associated with extreme weather.
- 1.5 There is no single body responsible for managing flood risk in the UK. Responsibility is shared across a number of bodies as set out below.
- **DEFRA** has overall national responsibility for policy on flood and coastal erosion risk management and provides funding for flood risk management authorities through grants to the Environment Agency and local authorities.
 - **The Environment Agency** is responsible for taking a strategic overview of the management of all sources of flooding. The Agency also has operational responsibility for managing the risk of flooding from main rivers, reservoirs, estuaries and the sea, as well as being a coastal erosion risk management authority.

- **Local Authorities** - Manchester City Council, along with the other 9 GM local authorities, is a **Lead Local Flood Authority** (LLFA) and is responsible for developing, maintaining and applying a strategy for local flood risk management in our area and for maintaining a register of flood risk assets. The council also has lead responsibility for managing the risk of flooding from surface water, groundwater and ordinary watercourses, which can include streams, drains and culverts.
- **Highway Authorities** are responsible for providing and managing highway drainage and roadside ditches and must ensure that road projects do not increase flood risk.
- **United Utilities** is responsible for managing the risks of flooding from water and foul or combined sewer systems providing drainage from buildings and yards.

1.6 Under the Flood and Water Management Act 2010 all risk management authorities mentioned above have a duty to co-operate with each other and to share data. The Pitt Review, published in 2008 following widespread flooding that took place in England in June and July 2007, recommended the need for flood risk management authorities to improve partnership delivery of flood risk management for the benefit of their communities.

2.0 Flood risk management across Greater Manchester

2.1 The Regional Flood and Coastal Committee (RFCC) is a statutory committee as defined by the Flood and Water Management Act (2010). It has 3 main purposes:

- Ensuring coherent plans are in place for identifying, communicating and managing flood risks across catchments,
- Promoting efficient, targeted investment in flood risk management,
- Providing a link between flood risk management authorities and other relevant bodies to develop mutual understanding of flood risks in their areas.

2.2 To facilitate joined up conversations with infrastructure providers and to overcome barriers to integrated planning and delivery, GMCA established the Strategic Infrastructure Board (SIB). The SIB also provides engagement with the key infrastructure providers such as Electricity Northwest, Cadent, the Environment Agency and United Utilities and has been key to creating the collaborative approach to infrastructure delivery across Greater Manchester.

2.3 The Greater Manchester relationship with EA and UU was further strengthened in September 2021 through agreement to enter into a Memorandum of Understanding with the EA & UU, this aims to achieve a reduction in flood risk, improvements in water quality and efficiency, more resilient and liveable places and developments, enhancement to natural capital, reduction in carbon emissions and an increase in investment into Greater Manchester.

- 2.4 As Lead Local Flood Authority, Manchester City Council has 2 Flood Risk Officers based in the Highways service who are responsible for water management aspects of development control/planning applications and advise on sustainable drainage features. In addition to this, the planning and cyclic maintenance undertaken by the Highways service provides flood prevention in respect of surface water mitigations.
- 2.5 The Civil Contingencies Act 2004 is one of the most relevant pieces of legislation that provides emergency planning for flooding. The Act provides a framework for responders to support the planning for and response to civil emergencies, including flooding incidents. Under The Act, responders are responsible for warning and informing residents, before during and after incidents. For flooding the Environment Agency would be the lead agency and will provide this information through flood alerts and warnings. During a flooding incident the Fire Service is responsible for any water rescues and the local Authority is responsible for supporting displaced people and providing Humanitarian Assistance. The Greater Manchester Resilience Forum (GMRF) is the statutory partnership with overall responsibility for coordinating activity under this legislation. A full list of GMRF partners is included in Appendix 1.

3.0 Initiatives to Tackle Flood Risk within Manchester

- 3.1 Rivers and other watercourses flow through many different local authority areas both within and beyond GM therefore investment in flood risk management projects is at a regional rather than very local area. Some of these are delivered by Local authorities and some by the Environment Agency.
- 3.2 The pipeline of flood risk projects identified in the current Greater Manchester 6yr Flood and Coastal Erosion Risk Management programme 2021 – 2027, will reduce the risk from flooding to approx 20% of properties in Greater Manchester. A list of the current proposals is set out in Appendices B and C and those being delivered within Manchester are described in more detail below -
- 3.3 Restoration of Ordinary Watercourses These works seek to restore and repair open and culverted (buried) watercourses to reduce the flood risk posed to specific areas. The project will also look to identify any potential areas where flood alleviation works can be implemented to protect as many houses as possible from potential and future flood events. Work will be starting imminently to carry out surveys and investigations.
- 3.4 Phase 2 Trash Screens -This project will focus on improving trash screens along several watercourses which have been identified as either posing a high flood risk to the local area or where repairs are required. A trash screen is a structure which prevents debris entering a culvert and reduces the risk of blockage. This project is in the preliminary stages with a business case currently being written for potential funding in the next financial year.

3.5 Further Survey of MCC Culvert Network-This project will focus on carrying out various surveys on the existing culverted ordinary watercourse network across MCC to identify the size and design of the asset and what the current condition is. This will help to identify culverts where repairs are required to prevent a flood risk incident. The second part of this project will be to carry out the necessary repair works of the culverted network

4.0 Environment Agency Initiatives to Tackle Flood Risk within Manchester:

4.1 River Mersey Strategy (South Manchester Catchments) - This two-year study will look to establish an approved strategy for the whole- life sustainable management of EA maintained flood defence assets. A programme of interventions along with the funding mechanisms will be identified and established. Projects developed from this study will look to incorporate key partner and/or local stakeholder opportunities, (flood risk reduction or environmental enhancement related).

4.2 Cringle Brook - This project will appraise whether further interventions to flood risk In Withington, Fallowfield and Burnage (from Cringle Brook) are viable. This project is currently at Strategic Outline Case, with the next step being to develop an Outline Business Case (preferred option) over the next 2 years. Construction start date likely to be around 2025 if a scheme/s are viable.

4.3 Sinderland Brook Strategy – Timperley and Brooklands- This project is predominantly in Trafford but does cross into Manchester in the Baguley/Wythenshawe area and seeks to take a strategic approach to understanding flood risk along Sinderland/Baguley and Timperley Brooks. It will identify whether projects to reduce flood risk are required and where those interventions are necessary.

5.0 The Role of AGMA Civil Contingencies and Resilience Unit

5.1 AGMA CCRU was established in 2011 to lead on the delivery of civil contingency services for the 10 Greater Manchester local authorities to ensure that there is a consistent and appropriate level of preparedness to enable an effective multi agency response to emergency incidents which may have a significant impact on our communities. Providing this service across the 10 GM authorities, enables expertise from a number of subject matter experts and Emergency Planners to be shared across Greater Manchester. Manchester City Council is the host authority for the unit. The role includes;

- Emergency preparedness, planning and support for the 10 GM local authorities.
- Provision of local authority input into GM resilience structures and processes.
- Shaping resilience and driving forward the work of the Greater Manchester Resilience Forum.
- Providing functional expertise and best practice.
- Developing and maintaining emergency plans (GM and local).

- Providing 24/7 emergency response structures with expertise and support for incidents and pre-planned events.
 - Training, exercising the plans and incorporating lesson learned.
- 5.2 Manchester City Council has a dedicated Business Partner to ensure that emergency planning arrangements are in place within the council including embedding GM plans, delivering effective training, exercising of plans, and providing specialist knowledge and support during the response to incidents.
- 5.3 Manchester's Business Partner supports the Council Resilience Forum, which meets on a quarterly basis, to provide leadership in maintaining and enhancing the Council's preparedness to respond to civil emergencies and national priorities, through the development and maintenance of resilience work programmes, owned within Council services and within key partner organisations.
- 5.4 Over the last 12 months, our business partner has developed a Multi-agency Flood Plan, specific to Manchester, led 2 multi agency training sessions for responder staff and developed and delivered an exercise (Exercise Freyr) to test the plan.
- 5.5 AGMA CCRU also co-ordinated a GM debrief into Storm Christoph to ensure that the lessons are learned and embedded within the plans and procedures across responding agencies as well as supporting MCC to carry out an internal debrief into the incident.

6.0 Debrief from Storm Christoph

- 6.1 On Sunday 17th January 2021 an Amber Flood Risk warning was issued for the whole of Greater Manchester with particular concern raised regarding the expected flooding around Didsbury, as a result of predicted, unprecedented, levels the River Mersey was expected to reach.
- 6.2 The Environment Agency called a Flood Advisory Service Teleconference for 3pm on Sunday 17 January to provide Local Authorities with as much information as possible in a timely manner.
- 6.3 Tactical coordination group (TCG) and Strategic coordination group (SCG) meetings were established starting on Monday 18th January and these continued at regular intervals throughout the incident. A Major Incident was declared on Tuesday 19th January.
- 6.4 The predicted levels and peak times varied slightly over the duration of the incident; however, it became clear on the afternoon of 20th January that a significant risk of flooding remained for the Didsbury and Northenden Areas. A Severe Flood Warning was issued, and an evacuation took place prioritising clinically extremely vulnerable, covid positive, self-isolating and those people who were vulnerable and required assistance to evacuate. In addition to residential properties and businesses, three settings housing vulnerable

residents were also evacuated. A Reception Centre was opened at Wythenshawe Forum and was attended by over 80 citizens.

- 6.5 The Flood waters peaked at approximately 5am on Thursday 21st January. They did not breach the flood basin, however, they did come within millimetres of doing so.
- 6.6 Over 240 city council staff along with partners and volunteers were involved in the response over the 4 days.
- 6.7 Following the response to storm Christoph two debriefs took place. A multi-agency debrief at a GM level and a Manchester City Council debrief to review the Council's internal response to the incident.
- 6.8 Both debriefs took place to identify good practice and areas of response that could be improved for any future flooding response.
- 6.9 From the MCC internal debrief the following themes were deemed to have worked well:
 - Overall response and evacuation were a success and had shown 'our Manchester' values in action.
 - Co-location at both GMP HQ and Didsbury police station allowed for sharing of information, excellent teamwork and effective problem solving.
 - Regular MCC response meetings.
 - Neighbourhood Team staff with local knowledge available to support the on the ground response in Didsbury.
 - Input of Population & Public Health Team and PHE making available data sets and skill of the analyst was crucial in making the evacuation possible in a covid secure way.
 - Communication overall worked well with leaflets, social media updates and media briefings keeping key parties updated.
 - Feedback from residents was overwhelmingly positive about the response from council staff and emergency teams.
 - Contact made with all who needed it and plans in place & executed for all who wanted to evacuate.
- 6.10 Although the response to the incident was very effective, as with any incident, there is usually lessons that can be learned and improvements that can be made. The following recommendations were made in respect of the GM response.
 - Improvements to the modelling and mapping data and improved access to the data and mapping information.
 - Improved liaison with neighbouring non-GM authorities and a better understanding of cross border implications of response.
 - More regular training and exercising.
 - Improvements to the identification of and plans for support to vulnerable residents.
 - Improved administrative support to be provided to incident responders.

- Property level flood protection - there was an inconsistent approach to the provision of sandbags and a review of policies across GM is being undertaken.
- Strategic and local flood plans – as usual after flooding events, to ensure all learning from the response of Storm Christoph and other smaller flooding events is put into practice, a review is being undertaken of the GM strategic multi-agency flood plan and the multi-agency Local Authority level flood plans.

6.11 The following recommendations were made following the MCC internal debrief

- Recommendation 1 - Ensure lessons learnt are embedded in the following Plans and Guidance:
 - Manchester's Emergency Response Plan
 - Multi Agency Flood Plan
 - Evacuation Guidance
- Recommendation 2 - Review the command and control arrangements to ensure there is adequate resource available to deal with incidents that continue over a number of days
- Recommendation 3 – Review communications to maximise community preparedness and how communications are carried out during an incident
- Recommendation 4 - Review the training and exercising plan to ensure that all parties who may be involved in the response receive the required training
- Recommendation 5 - Review the Humanitarian assistance procedures and processes to ensure an effective response during incidents of this scale.
- Recommendation 6 – Improve community resilience.

6.12 An action plan to address the lessons learned has been developed and is being implemented under the governance of the Council Resilience Forum. This includes Community Flood Plans which are being developed for the affected flood areas in Neighbourhoods. These plans will involve the community, primarily focusing on improving communication between the Council and residents before, during and after flooding to complement the robust plans Manchester already has in place to protect and care for residents in the event of flooding. These plans will be available on the council's website.

7.0 Reservoir Management

7.1 Reservoirs that are capable of holding 25,000m³ or more of water are regulated under the Reservoirs Act 1975. The owners of these reservoirs are required to register the relevant reservoir with the Environment Agency and produce on-site flood plans. These plans outline what areas could flood and the actions needed to prevent, control and mitigate an uncontrolled release of water.

7.2 There are 4 reservoirs in Manchester, Heaton Park Boating Lake which is owned by Manchester City Council and 3 other reservoirs owned by United Utilities, Gorton Lower, Gorton Upper and Heaton Park Open.

- 7.3 In addition to the on-site flood plans, there is a Greater Manchester Generic Reservoir Off-site plan and the most high-risk reservoirs in Greater Manchester have individual off-site reservoir plans including Gorton Upper and Heaton Park Open. These plans provide a framework of procedures to facilitate a co-ordinated multi-agency response to the off-site consequences of a potential or actual dam breach at a reservoir which could impact Greater Manchester.
- 7.4 In recent years reservoir plans have been tested through both exercises and the incident at Toddbrook Reservoir in 2019 where several concrete panels collapsed. Although this reservoir is outside of Greater Manchester had it breached it would have impacted areas of Greater Manchester. CCRU and emergency responders from GM were involved in the response. As with all exercises and incidents, the plans have been reviewed to incorporate any lessons identified. The response to this incident demonstrated the level of preparedness and ability to respond to such situations.

8.0 Conclusion

- 8.1 Flood risk management is multi-faceted and requires a multi-agency response. It spans across duties, responsibilities, and agencies. It involves planning, preparation, engagement, investment, partnerships, responding to events and helping with recovery. Manchester City Council is committed to continue to play our part in this process and to raise awareness of flood risk amongst our communities.
- 8.2 Overall, MCC's response to flooding and other emergency incidents is well developed as evidenced in the response to Storm Christoph which worked well and demonstrated the strength of the partnerships developed across the city and Greater Manchester. Preparedness was good and the Greater Manchester Plans and Guidance which had recently been exercised, put us in good stead for responding to the incident.
- 8.3 As is always the case there is learning that can be taken from each incident and MCC's Council Resilience Forum will continue to monitor overall progress against the recommendations.

Appendix 1 - List of GMRF members

| Organisation | Category | CCA Category |
|---|-----------------|---------------------|
| Association of Greater Manchester Authorities (AGMA CCRU) | Local Authority | Category 1 |
| Manchester Airport | Transport | Category 2 |
| Bury Council | Local Authority | Category 1 |
| Bolton Council | Local Authority | Category 1 |
| Oldham Council | Local Authority | Category 1 |
| Manchester City Council | Local Authority | Category 1 |
| Rochdale Council | Local Authority | Category 1 |
| Salford Council | Local Authority | Category 1 |
| Stockport Council | Local Authority | Category 1 |
| Trafford Council | Local Authority | Category 1 |
| Tameside Council | Local Authority | Category 1 |
| Wigan Council | Local Authority | Category 1 |
| Greater Manchester Police | Police | Category 1 |
| Greater Manchester Fire & Rescue Service | Fire | Category 1 |
| North West Ambulance Service | Ambulance | Category 1 |
| Ministry of Defence (MoD) | Military | Category 2 |
| Greater Manchester Health & Social Care Partnership (GMHSCP) | Health | Category 1 |
| United Utilities | Utility | Category 2 |
| Electricity North West Ltd ENWL | Utility | Category 2 |
| British Transport Police | Police | Category 2 |
| Met Office | Weather | Category 2 |
| NHS Greater Manchester Shared Services (GMSS) | Health | Category 2 |
| Environment Agency | | Category 1 |
| Greater Manchester Combined Authority | Local Authority | Category 2 |
| Manchester Port Health Authority | | Category 2 |
| Transport for Greater Manchester | | |
| National Grid Plc | | Category 2 |
| Public Health England | | Category 1 |

| | | |
|--------------------------|-----------|------------|
| Highways England | Transport | Category 2 |
| British Red Cross | | Category 2 |

Appendix 2 Greater Manchester 6yr Flood and Coastal Erosion Risk Management programme 2021 – 2027,

Table 1 – Local Authority Led Projects

| Project Name | Lead Risk Management Authority - Name | Project Type | Present Value Whole Life Costs (£) | Start of construction | OM2 (Households) moved to lower flood risk category) |
|---|--|---------------------|------------------------------------|-----------------------|--|
| Bolton Inlets and Screens Improvement | Bolton Metropolitan Borough Council | Defence | 591,552 | 01/06/2023 | 262 |
| Lenham Gardens Surface Water Alleviation Scheme | Bolton Metropolitan Borough Council | Defence | 272,788 | 01/09/2023 | 86 |
| Horwich Town Centre Flood Alleviation | Bolton Metropolitan Borough Council | Defence | 3,009,000 | 01/07/2021 | 248 |
| Mill Brook, Hollymount, Bury | Bury Metropolitan Borough Council | Defence | 80,000 | 01/02/2023 | 40 |
| Harwood Road Culvert | Bury Metropolitan Borough Council | Defence | 125,000 | 01/02/2023 | 40 |
| Lumb Carr Culvert | Bury Metropolitan Borough Council | Defence | 140,000 | 01/02/2023 | 60 |
| New Street Culvert | Bury Metropolitan Borough Council | Capital Maintenance | 415,000 | 01/02/2023 | 100 |
| Ramsbottom Flood Mitigation | Bury Metropolitan Borough Council | Defence | 650,000 | 01/02/2023 | 80 |
| Shaw, Cringle, Ley and Willow Brook | Manchester City Council | Defence | 600,000 | 01/12/2022 | 230 |
| Manchester Trash Screens Phase 2 | Manchester City Council | Defence | 150,000 | 01/03/2023 | 60 |
| Manchester Restoration of Open Channels of Ordinary Watercourses | Manchester City Council | Capital Maintenance | 1,067,000 | 01/12/2021 | 618 |
| Grasmere Rd, Royton, Oldham | Oldham Metropolitan Borough Council | Capital Maintenance | 171,182 | 01/07/2021 | 36 |
| Oak View Road, Greenfield Oldham | Oldham Metropolitan Borough Council | Capital Maintenance | 475,000 | 01/08/2021 | 58 |
| Valley Mews, Greenfield, Oldham | Oldham Metropolitan Borough Council | Defence | 478,500 | 01/08/2021 | 82 |
| Golburn Clough, Greenfield, Oldham | Oldham Metropolitan Borough Council | Defence | 490,000 | 01/08/2021 | 258 |
| Turf Hill | Rochdale Metropolitan Borough Council | Defence | 700,000 | 01/07/2021 | 48 |
| Groundwater Study - Castlewood Road, Kersal | Salford City Council | Defence | 141,595 | 01/06/2021 | 102 |
| Stockport Parklife | Stockport Metropolitan Borough Council | Defence | 3,275,000 | 01/09/2024 | 600 |
| Schools Hill, Cheadle Surface Water Mgmt Scheme | Stockport Metropolitan Borough Council | Defence | 115,000 | 01/08/2022 | 24 |
| Stockport Rd, Romiley | Stockport Metropolitan Borough Council | Defence | 450,000 | 01/10/2024 | 116 |
| Wild Bank Hill Inlet Structure Improvements, Tameside | Tameside Metropolitan Borough Council | Capital Maintenance | 700,000 | 01/07/2022 | 398 |
| Longford Brook Flood Alleviation Scheme | Trafford Metropolitan Borough Council | Defence | 325,000 | 01/08/2027 | 76 |
| Timperley Brook Surface Water Management | Trafford Metropolitan Borough Council | Defence | 490,000 | 01/08/2023 | 280 |
| Wigan Structural Survey and Inspection of Poor and Very Poor Assets - Phase 2 Perry Brook | Wigan Metropolitan Borough Council | Capital Maintenance | 333,448 | 01/06/2021 | 54 |
| TOTAL | | | 15,245,065 | | 3,956 |

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Appendix 3

Table 2 – Environment Agency Led Projects

| | | | | | |
|--|--------------------|---------------------|----------------------|------------|---------------|
| Radcliffe & Redvales FRM Scheme | Environment Agency | Defence | 314,491,507 | 01/07/2019 | 1,614 |
| River Roch, Rochdale & Littleborough | Environment Agency | Defence | 400,000,000 | 01/06/2021 | 1,924 |
| Asset Recondition allocation | Environment Agency | REC | - | - | - |
| National Debris Screen Project - GMMC (NWO013E/000A/028A) | Environment Agency | Capital Maintenance | 10,814,468 | - | 612 |
| Priority Screen Replacement: Bolton and Wigan | Environment Agency | Capital Maintenance | 3,240,000 | 01/04/2021 | 216 |
| Dean Brook Culvert, Bolton | Environment Agency | Capital Maintenance | 14,913,838 | 01/05/2021 | 44 |
| Pipeline Priority: Leigh East - Higher Folds, Bedford and Lilford | Environment Agency | STR | 40,436,000 | 01/07/2024 | 1,676 |
| River Irwell, Kearsley | Environment Agency | Defence | 20,000,000 | 17/05/2023 | 160 |
| Pipeline Priority: River Mersey, South Manchester | Environment Agency | Capital Maintenance | 41,945,000 | 01/07/2025 | 1,732 |
| Irwell Vale to Chatterton | Environment Agency | Defence | 50,711,000 | 01/11/2022 | 232 |
| Capital £40m Asset Replacement Fund (Strand 2) - Sale and Didsbury FSR Inlet Roof Replacements | Environment Agency | Capital Maintenance | - | | |
| Cringle Bk, Ladybarn | Environment Agency | Defence | 40,442,120 | 01/10/2023 | 886 |
| Black Brook Culvert Refurbishment | Environment Agency | Capital Maintenance | 5,361,290 | 01/04/2022 | 80 |
| Jenny Beck Culvert Refurbishment, Bolton | Environment Agency | Capital Maintenance | 4,413,690 | 01/05/2022 | 254 |
| Wardle Brook Culvert Refurbishment, Wardle | Environment Agency | Capital Maintenance | 5,629,350 | 01/04/2022 | 84 |
| Pipeline Priority: Sinderland Brook and Tributaries – Brooklands and Timperley South | Environment Agency | Capital Maintenance | 19,536,000 | 01/09/2024 | 816 |
| Pipeline Priority: Poise Brook - Offerton Green | Environment Agency | Defence | 7,428,000 | 01/07/2024 | 286 |
| Bessy Brook, Bolton | Environment Agency | Defence | 1,000,000 | 01/04/2023 | 126 |
| River Tame, Uppermill | Environment Agency | Defence | 15,000,000 | 01/10/2022 | 170 |
| Common Lane Bk, Leigh | Environment Agency | Defence | 12,108,786 | 01/04/2022 | 84 |
| Alder Forest, Eccles | Environment Agency | Defence | 11,507,355 | 01/06/2021 | 184 |
| TOTAL | | | 1,018,978,404 | | 11,180 |

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**Manchester City Council
Report for Information**

Report to: Environment and Climate Change Scrutiny Committee – 11 November 2021

Subject: The Role of Neighbourhood Teams In Developing Local Climate Change Activity and Partnership Working

Report of: Strategic Director (Neighbourhoods)

Summary

The report provides information on how the Neighbourhood Teams are supporting local communities to engage in local climate change activity and reduce carbon emissions. This includes an update on the In Our Nature programme pilot schemes, describing the approach and outcomes of partnership working and information on the delivery of active travel.

Recommendations

It is recommended that the Environment and Climate Change Committee note and comment on the report.

Wards Affected: All

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

The Council's Climate Change Action Plan 2020-25 sets out the actions that will be delivered to ensure that the Council plays its full part in delivering the city's Climate Change Framework 2020-25 which aims to half the city's CO2 emissions over the next 5 years.

| Manchester Strategy outcomes | Summary of how this report aligns to the OMS |
|---|--|
| A thriving and sustainable city: supporting a diverse and distinctive economy that creates jobs and opportunities | The transition to a zero-carbon city will help the city's economy become more sustainable and will generate jobs within the low carbon energy and goods sector. This will support the implementation of the Our Manchester Industrial Strategy and Manchester Economic Recovery and Investment Plan. |
| A highly skilled city: world class and home-grown talent sustaining the city's economic success | Manchester is one of a number of UK cities that have agreed a science-based target and is leading the way in transitioning to a zero-carbon city. It is envisaged that this may give the city opportunities in the green technology and services sector. |

| | |
|--|--|
| A progressive and equitable city: making a positive contribution by unlocking the potential of our communities | Transitioning to a zero-carbon city can help to tackle fuel poverty by reducing energy bills. Health outcomes will also be improved through the promotion of more sustainable modes of transport and improved air quality. |
| A liveable and low carbon city: a destination of choice to live, visit, work | Becoming a zero-carbon city can help to make the city a more attractive place for people to live, work, visit and study. |
| A connected city: world class infrastructure and connectivity to drive growth | A zero-carbon transport system would create a world class business environment to drive sustainable economic growth. |

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Background documents (available for public inspection): None

1.0 Introduction

- 1.1 The Report provides information on how the Neighbourhood Teams are supporting local communities to deliver activities that contribute to the city's ambition of becoming a net zero carbon city by 2038. This includes an update on the Manchester Climate Change Agency led In Our Nature Programme pilot scheme, describing the approach and outcomes of partnership working and information on the delivery of active travel.

2.0 Background

- 2.1 Manchester has a target of becoming a zero-carbon city by 2038. Achieving this will require everyone in the city to play their part. The Council's Climate Change Action Plan 2020-25 Workstream 5 is a cross cutting theme concerned with influencing behaviour as a catalyst for change. A key component of the plan is working at the neighbourhood level with communities on reducing their carbon imprint.
- 2.2 The role of the Neighbourhood Teams is to facilitate discussion and engage people at the local level in the climate change agenda and the City's carbon reduction targets. The work complements the wider activity in the city to direct future investment and infrastructure to achieve its carbon reduction targets.
- 2.3 The local approach recognises that climate change raises different issues for different neighbourhoods and communities in the city. By approaching the subject at the local level, the issue becomes tangible and less overwhelming. It encourages residents, businesses, and organisations to participate, consider how climate change impacts on their own lives and encourages people to act. By thinking locally and sharing good practice it is planned to build an array of local actions and changes that if culminated, will create notable change, and generate a ground swell of opinion and support for the city's carbon reduction targets. To ensure that carbon reduction is relevant to all communities the Neighbourhood Teams aim to address barriers to engagement and ensure that the issues with regards climate change is communicated so that it is relevant and inclusive for all communities.
- 2.4 Neighbourhood Teams are well placed to co-ordinate local climate change activity as they facilitate collaboration and partnership at the neighbourhood level. Neighbourhood priorities and activities are established based on the needs of the neighbourhoods, using local strengths and energy of local communities and networks. Neighbourhood Managers chair both ward co-ordination meetings and the Team Around the Neighbourhood (TANs) which bring together key partners on a neighbourhood footprint including registered housing providers, the Local Care Organisation's neighbourhood teams and Greater Manchester Police to identify and deliver on local priorities. TANs have included addressing climate change in their priorities and partners are engaging in the production and implementation of ward climate change action plans.

2.5 The report outlines the work of the Neighbourhood Teams and partners to facilitate and support local climate change activity including:

- Ward Climate Change Action Plans.
- Use of the Neighbourhood Investment Fund
- Support for Active Travel Initiatives
- Work of Climate Change Neighbourhood Officers including supporting development of wider partnership structures.
- Supporting National Lottery Climate focussed initiatives 'In Our Nature' and 'Our Streets Chorlton' as pilots for good practise and learning.
- The report also outlines key elements that are required for the local approach to be successful. These are:
 - Inclusivity and Diversity
 - Communications
 - Measuring and monitoring climate change emissions
 - Learning and development

3.0 Ward Climate Change Action Plans

3.1 Ward Climate Change Action Plans form the foundations to engaging and capturing bottom-up climate change activity across the city. Work is progressing to ensure that each ward has a Climate Change Action Plan by the end of the calendar year. A standard template has been produced so there is consistency in approach, recording and capturing information about residents and partner groups involved, resources and opportunities available. Actions are identified alongside, timescales for delivery and how impact will be measured. Progress will be monitored on a quarterly basis. More information is provided in Appendix 1 on the type of activity included so far in Ward Climate Change Action Plans.

3.2 Six wards are holding their own climate change emergency events. Outcomes from these will be built in their Ward Climate Change Action Plans. The aim of these events is to bring together the local community with Councillors and partners, to highlight what is already happening, to involve the community in developing the ward climate action plan, to encourage people to feel that their actions have impact and to identify where more support is needed.

3.3 Hulme, Moss Side and Rusholme have recently held their events with between 20 and 25 residents attending. Discussion at the events centred on:

- Planting and greening opportunities.
- Cars/ traffic impact on air quality as well as its dominance on the experience of the area.
- Waste and recycling, reducing fly tipping and increasing composting.
- Ardwick, Deansgate and Piccadilly are holding a resident event during the COP26 period.
- Climate Change Workshops are planned for Didsbury East and Didsbury West in mid-November. The main aim of the workshops is to launch

Climate Change Action Plans and discuss with residents the Action Plan priorities.

4.0 Neighbourhood Investment Fund: aligned to support climate change projects

- 4.1 The Neighbourhood Investment Fund (NIF) provides local communities with funding to make their neighbourhoods better places to live. £20,000 of NIF is available for each ward in Manchester - to help groups deliver events and initiatives that benefit the community.
- 4.2 Following the Declaration of the Climate Emergency the NIF process and application form has been amended so NIF actively supports applications which are environmentally sustainable and connect to the Ward Climate Change Plans and priorities. £57,000 of NIF funding was approved for local climate change projects last financial year (2020/21) and this is expected to increase this financial year (2021/22).
- 4.3 There is a commitment from each ward for at least one climate change project to be funded by NIF this financial year. Follow this link to see more details on the Council webpages: [What are neighbourhood investment funds | Neighbourhood investment funds | Manchester City Council](#)
- 4.4 The amended NIF form invites applications that 'tackle' climate change through activities such as greening, rewilding, local food projects, awareness raising/ engagement activities around climate change, repair workshops/sessions, increasing composting, increasing recycling rates, reducing waste, green and active travel initiatives, and improvements to air quality.
- 4.5 A selection of NIF awards from 2021/22 are provided below:

SOUTH AREA

Northenden & Brooklands Ward: Pioneer House School

Amount £470

Objective - improve the green space at Sale Circle Shopping Parade straddling the two ward boundaries. This followed a visit to the school by the Neighbourhood Officer to hold a Climate Change Workshop and whole school assembly.

Whalley Range Ward: Walk Ride Group

Amount £1,060

Objective - improve road safety in the area, in order to enable safe active travel for school children and other residents.

Chorlton Park and Chorlton Wards: West Didsbury & Chorlton AFC

Juniors

Amount £959

Objective - installation of cycle racks at football ground

CENTRAL AREA

Hulme Ward - UK Youth for Nature

Amount: £900

Objective - To reach a diverse audience and empower local people to be part of the climate conversation, UK Youth for Nature has created a beautifully illustrated mural on the wall of a local church in Hulme. The mural sets out to highlight nature and the importance of biodiversity in climate change mitigation.

Piccadilly and Deansgate Wards – Climate Change Emergency Summit

Nov 2021

Amount: £700

Objective – Funding for a residents' event on climate change.

Deansgate Ward – Street Tree Planting Programme

Amount to be finalised.

Objective - to increase greening in the City Centre with the installation of street trees in various parts of the ward.

Deansgate Ward – Carbon Literacy Training (CLT) for residents

Amount to be finalised.

Objective – to offer CLT to any resident in the ward who would like to take up this offer. It will be publicised at the city centre residents' climate event in November.

Gorton and Abbey Hey - Abbey Orchard

Amount: £874

Objective - Create a poly tunnel to grow fruits and flowers from seed.

NORTH AREA

Cheetham Ward - Abraham Moss Warriors, multiple greening projects.

Amount - £6,000

Objective – Improvements to greenspace in Smedley Community Park. This includes installation of communal raised planting beds, creation of both a large flower bed and an 80-foot habitat designed to encourage and support biodiversity.

Miles Platting & Newton Heath Ward - Keeley Close Community Garden Group

Amount - £575

Objective – to improve and expand community garden space to enable food growing.

Harpurhey Ward - No.93 Health and Wellbeing Centre

Amount - £1,604

Objective – Project delivered in partnership with Sow the City to further develop external space at the centre, run weekly workshops and grow produce to supply the on-site community café.

4.6 **Other funding Sources**

Neighbourhood Teams have supported local climate change projects to attract funding from other external sources, including:

Groundwork

Groundwork have allocated two pots of £6,000 funding for 'Eco Streets' projects in Manchester for Boscombe Street Re-Greening in Moss Side, and Pigeon Park in Longsight. The funding will be used by community groups to improve their local area through planting and greening.

IGNITION

Ignition is an EU programme currently funding a design scheme in Edge Street, in the city centre, which will demonstrate how nature-based solutions (NBS) can be used to reduce flooding, irrigate soft landscaping, improve the streetscape, uplift property values and increase footfall.

The team will continue to work with partners and funders to attract additional resources that can be utilised at a local level.

5.0 **Promoting Active Travel**

5.1 Active travel is an essential element of the Council's vision for a sustainable transport system and reducing carbon emissions through a mode shift away from private car journey towards cycling and walking. The Neighbourhood Teams have played a significant role in working with communities in encouraging people to walk and cycle. This has included.

5.2 **Promoting Active Travel Choices on the School Run – School Streets and Walk to School Programmes**

The Neighbourhood Teams work closely with schools and parents to promote active travel choices and increase climate change awareness. The activities at schools have included:

- Delivering school assemblies to talk about active travel choices and carbon impact of short car journeys to school.
- Producing articles for school newsletters.
- Supporting applications for the nationally Accredited Active Travel Schemes such as the "WOW "Walk to School Project by Living Streets Organisation and the Modeshift STARS education Scheme.

5.3 **School Streets Sessions – "providing Traffic Free Space outside Schools"**

One Day Taster Sessions

The Neighbourhood Teams, alongside Highways, have supported 20 primary schools in 13 wards across Manchester to hold one day tester

“School Street” Sessions (for list of schools see appendix 2). These sessions help to promote active travel, transform the school run and encourage safe, healthy school travel whilst improving air quality around school sites.

A “School Street” taster session followed invitations to schools to request that the Council introduce temporary restrictions on motor traffic at school drop off and pick up times providing a traffic free safe space that encourages active travel. These are one day trial sessions with the Council waiving normal fees and providing expertise, legal notices, training for volunteers, signage, and barriers for the school to allow them to successfully manage the session.

One Day Taster School Street Sessions have typically been held on climate change campaign days such as Clean Air Day or Car Free Day. These are opportunities for Schools, parents, and residents to come together to provide safe traffic free school travel supported by volunteer traffic marshals.

Over 6,600 pupils have been able to enjoy at least one day of car free space outside their school at drop off and pick up times on the school street trial sessions across Manchester.

5.4 School Streets – Moving towards sessions every school day

Following successful one day trials, many schools have asked that they hold them more regularly. The Council was successful in September 2021 in a funding application to TFGM and has been granted £50k to roll out a pilot programme at 7 schools (for list of schools see appendix 3) in Manchester that will see School Streets Sessions held every school term day.

The School Streets initiative at these 7 schools will be supported by permanent Traffic Restriction Orders (TRO) and additional fixed signage. The Council will provide accredited marshal training and resources for school staff and parent volunteers. In the lead in period the participating schools as well as other schools across the city, will be encouraged to hold further one day taster sessions. These TRO orders are subject to a statutory consultation process; it is anticipated that the move to daily sessions will take place over the Summer and Autumn terms in 2022.

5.5 Promoting wider Active Travel Choices on the School Run

In addition to School Street Road Closures the Neighbourhood Teams will continue their engagement with schools to develop active travel resources, school travel plans and support packages. As schools develop more experience of active travel initiatives, they will be supported to progress to the option of School Street one day taster sessions. As the schools become more experienced through the delivery of taster sessions and other Active Travel events such as walk to school days the Council will develop a pipeline of potential applications for regular and permanent School Streets should further funding become available.

The committee should note that a full report on the role of schools and climate change has been requested by the Children and Young People’s Committee.

5.6 **Play Streets: Promoting Traffic Free Residential Streets**

The Neighbourhood Teams have been promoting Play Streets within communities and supporting applicants to plan and organise sessions. Over 50 streets across the city have held at least one Play Street session since 2019 (for a list of streets please see appendix 4).

5.7 **Other schemes**

The Council is delivering a range of schemes involving development and construction of physical infrastructure, strategic plans for extending the walking and cycling network, and other schemes to increase access to active travel. The Neighbourhood Teams support the technical project teams in engaging with residents and Councillors in the development and delivery of active travel infrastructure within the city.

6.0 **Climate Change Neighbourhood Officers**

6.1 Three Climate Change Neighbourhood Officers (CCNOs) were appointed in Spring 2021. These posts are based in each of the Neighbourhood Teams (North/South/Central). The CCNOs give advice and direction ensuring that Neighbourhood Teams, Councillors and communities have the support and information to develop locally based climate change initiatives and develop their ward climate change action plans. The Environment and Climate Change Scrutiny Committee at its meeting in June 2021 was introduced to the CCNOs. The Officers have continued to engage with communities, local councillors, and partners at the ward level. They have also engaged with wider partnerships and initiatives at both the citywide level and cross ward boundaries. This has included:

6.2 **Air Quality (AQ) Steering Group (citywide)**

CCNOs attend quarterly AQ steering group meetings to represent Neighbourhoods contributions to the AQ action plan. CCNOs provide updates on Neighbourhood activities linked to air quality, including Clean Air Day and School Streets. The CCNOs support the Domestic Smoke Pollution campaign by coordinating leaflet drops to properties with log/coal burners.

6.3 **Wythenshawe Sustainability Working Group (Wythenshawe)**

CCNO for South Manchester is supporting the group, which is led by the Wythenshawe Community Housing Group, by attending its meetings, advising on funding opportunities and projects. An example of a project that has progressed is the David Attenborough '*A Life on Our Planet*' community screenings. A successful screening followed by an open discussion took place in Woodhouse Park. There are plans to host more sessions in various Wythenshawe locations.

6.4 Young People's Network (citywide)

This is a working group made up of CCNOs and stakeholders involved in the youth climate agenda, including MCC Education, Manchester Climate Change Agency, Groundwork, Keep Britain Tidy, and Manchester Environmental Education Network (MEEN). The group supported the promotion and delivery of climate change-specific Holiday Activity Fund (HAF) activities over the summer holidays. CCNOs also attended locality primary head teacher conference meetings to promote climate change initiatives such as Eco Schools.

6.5 Age Friendly Network (citywide)

CCNOs have made initial links with the Age Friendly team. A climate change-focused article was published in the Age Friendly October monthly bulletin. This included information about where to find Manchester Climate Change Agency's ongoing Framework V2 consultation.

6.6 In Our Nature (citywide)

CCNOs played a key role in supporting the citywide Climate Assembly, by working with Neighbourhood colleagues to share promotional materials via leafleting and social media, attending the face-to-face workshop sessions to provide support with delivery, and assisting with liaison between Councillors and project facilitator, Envirolution. CCNOs also supported the set-up and running of the In Our Nature - Nature Takeover pop-up shop in St Anne's Arcade, city centre.

6.7 IGNITION Hackathon (citywide)

CCNOs will support a series of three events hosted by the Royal Horticultural Society and IGNITION project. Events are targeting school groups and youth organisations and aim to address practical action to mitigate climate change that can be taken at a community level. Groups will be invited to pitch ideas, the CCNOs are to sit on expert panels to assist in judging successful pitches which will later be showcased at RHS Bridgewater Hall.

7.0 National Lottery Climate Change Funded Projects

7.1 The CCNOs and Neighbourhood Teams support two community climate focused initiatives in Manchester which are funded by the National Lottery Climate Action Fund. These bring together a range of partners with an expertise in climate change and engagement. These are the In Our Nature programme and the Our Streets Chorlton initiative. Both programmes have been established to drive learning and identify good practice, with a view to scaling up action across Manchester and beyond.

8.0 In Our Nature

8.1 In Our Nature Programme (ION) is led by the Manchester Climate Change Agency. The initial focus of ION has been using urban greening and nature-based solutions as a way of gaining interest within communities, by supporting community projects including greening, gardening, growing and those that support nature and increase biodiversity. This approach is based upon research by Natural England ^[1], and others that provide evidence between nature and climate action. The name “In Our Nature” is a play on the theme, and also represents the goals of the programme that climate action and carbon reduction will be ingrained within everything that we do as residents, and as a city, so that it becomes habitual and “in our nature” to act on climate change.

8.2 The ION programme is a partnership supported by a specialist team of organisations in climate change and community engagement including Manchester Climate Change Agency (MCCA), Hubbub, Tyndall Centre, Commonplace and Amity. CCNOs and other representatives from the Neighbourhood Teams support the programme, attend the partnership meetings, and assist partners engage with the communities. The MCCA has overall responsibility for co-ordination and management of the programme. As well as the National Lottery’s Climate Action Fund, the programme is funded by a variety of UK funders including the Esmee Fairbairn Foundation, Garfield Weston Foundation, and the Wates Family Enterprise Trust.

8.3 The aim of the programme is to communicate to people about climate change and why acting now is so important to the future of our city and ourselves. Key elements of the programme include both citywide and local initiatives as described below. Details about the programme can be found on the following link: <https://zerocarbonmanchester.commonplace.is/>

8.4 Area based pilot projects

The programme has partnered up with communities in Moss Side, Hulme, Rusholme, Miles Platting & Newton Heath, the Northern Quarter (Piccadilly) and Levenshulme to bring people together to develop community climate action projects. The Arrowfield Estate in Chorlton Park has recently been added following an approach by Southway Homes to develop a single site “low carbon living” exemplar with tenants on the estate after receiving European funding to replace gas boilers with low carbon air source heat pump boilers, which has acted as a catalyst to enable wider discussion on climate change.

8.5 Each area-based pilot is being provided with a range of support to develop projects including:

- A dedicated person from the Tyndall Centre to support the community group to develop their own plans, prioritise actions and learn how best to reduce an areas carbon footprint.

- A tailored support programme provided by Amity for 6 months, for up to 12 people to come together to actively engage with each other and with the wider community for climate action.
- A Commonplace community portal consisting of an interactive map, and space to engage the community through various interactive tools and surveys.

8.6 The Neighbourhood Teams will work with the groups to connect their activities to the relevant ward climate action plan. For Miles Platting and Newton Heath the focus will be on a youth project and will be linked to active travel. The project group is currently being brought together. The other groups are at a formative stage and have held their initial meetings.

8.7 **In Our Nature Communications Campaign**

Supporting locally based initiatives is the city-wide 'In Our Nature' communications campaign which includes:

- Daily tips, advice, and inspiration on greener living in Manchester linked to the key actions defined by the Climate Change Agency
- Amplification of local projects and initiatives including through the 'Stories We Love' series which celebrates people and projects taking climate action.
- Promotion of opportunities for residents to have their say and feed into the city's climate change plans.

8.8 ION has created free resources include template designs and 'inspiration guides' pulling together key learnings from the communications campaign. Printed assets and 'events packs' have also been provided to the Neighbourhood Teams and NCCOs to enable them to promote ION at events. The programme has also developed and funded several other project initiatives providing opportunities for residents to get involved in practical action.

8.9 **Individual project Initiatives**

Nature Takeover: There are 4 projects as part of the Nature Takeover in Moss Side which are connecting with diverse communities including an alleyway greening project in Moss Side, working with the Mustafia Sharif Centre to transform a concrete courtyard into an urban garden, creation of a community allotment and the opening of "pop up nature shop" in the city centre. Hubbub has also provided funding to local groups to create long lasting and impactful climate action projects.

Greener Wilder Homes: A peer-to-peer growing project in Miles Platting connecting families who want to grow fruit and veg with local growing enthusiasts with the help of Sow the City.

Community Fridge Network: Operating across Manchester in Moss Side, Wythenshawe and Crumpsall, with more in the pipeline.

Community Calling: Hubbub launched this campaign in Manchester this summer with Young Manchester to provide a scheme that recycles donated mobile phones to disadvantaged young people, along with data.

<https://www.hubbub.org.uk/communitycalling>

8.10 In Our Nature Community Grants

A citywide community grant pot was established for groups to bid into. The successful applicants have been chosen by a panel of local experts, including representatives from the Neighbourhood Teams. The 3-winning projects involved:

Stitched Ups' walk-in wardrobe: The 'Walk-in-Wardrobe' will be a pop-up experience for young people who want to find out more about their clothes – from what they are made from (and who by) to what happens after we get rid of them.

Library of Things in Levenshulme Old Library: The Manchester Library of Things will be a community shed bursting with things people need, but do not want to buy. Working like a normal book library, you will be able take out a membership and borrow useful items at low cost. Borrowing from the Library of Things will help people borrow more, save money, and protect the planet.

Good for you Cookbook: Future Directions CIC will work with people with learning disabilities and autistic people to develop an easy-read cookbook filled with healthy recipes and practical tips to help reduce food waste. They hope that this will inspire and empower people to gain confidence and learn new skills so they can eat well and waste less.

In addition to the above, Hubbub is funding four urban greening community projects delivered by local groups such as Manchester Urban Diggers and Mothers Against Violence.

9.0 Our Streets Chorlton (OSC)

- 9.1 This is a community-led project, engaging people in Chorlton and Chorlton Park in conversations about reducing carbon emissions by reducing car journeys. It is funded by The National Lottery's Climate Action Fund and is a partnership of Walk Ride GM, Groundwork GM, Open Data Manchester, Sustrans, Amity CIC, Tyndall Centre for Climate Change Research and Commonplace. Two full time project coordinators listen, engage, and support the community to explore local solutions together. Our Streets Chorlton established a regular meeting at the start of the project to share progress, align work and good working relations. The Neighbourhood Manager for Chorlton advises and assists the project to distribute information and attends their monthly forum meetings. Highway Officers have helped inform the street closures and other matters and the Our Street project officers and CCNO's have collaborated on elements and shared learning.

Our Streets Chorlton has:

- Developed a community forum for residents to discuss carbon emissions, travel, and potential local solutions, to steer the work of the OSC project.
- Supported residents of two streets to host their first Open Streets; over three days through-traffic was stopped, and the space was used for people to socialise and take part in activities highlighting active travel.
- Facilitated a School Champions Network; a space for local parents, teachers, and residents to work together on the traffic, safety and health challenges facing schools in Chorlton.
- Supported a week of School Streets activity: School Streets at 3 primary schools and climate workshops at 3 high schools.
- Carried out 5 in-person volunteer-led traffic counts to monitor traffic on specific streets throughout the day to give us an accurate picture of traffic levels and types.
- Installed 15 community-hosted automatic traffic counters and 2 air quality sensors to help produce a current picture of Chorlton. See <https://ourstreetschorlton.co.uk/julys-data-bulletin-our-streets-in-chorlton/>

Next steps for the OSC Initiative include:

- Installing a temporary parklet on private land to use as a further consultation tool with residents and traders.
- Delivering an Inspired Community Action programme to grow greater climate action in the community by uncovering people's capacity for community action.
- The funding for the initiative is due to end in March 2022. Discussions are currently underway between OSC, Manchester City Council, Manchester Climate Change Agency and the National Lottery about future funding, project learning and the potential for widening the Our Street Chorlton Work to a citywide initiative and ensuring it adds value to the development of Active Travel Initiatives in the City and dovetails with the wider ION programme.

10.0 Inclusivity and Diversity

- 10.1 Communities are diverse in language, ethnicity, faith, and cultures. Our approach to engagement and communication needs to be appropriate and accessible. Working with the CCNOs, Hubbub produced an Equalities Impact Assessment to identify inclusivity and diversity issues with regards communications and events planning associated with the ION programme and activities. As well as social media and web-based channels the campaign uses printed materials and flyers translated into a range of languages.
- 10.2 Many of the ION project pilot initiatives have explored engaging with a specific group for which there may be barriers to engagement. This includes 'Good for you, Good for the Planet' Cookbook working with people with learning disabilities and autistic people to develop an easy-read cookbook filled with healthy recipes and practical tips to help reduce food waste. Community-based urban greening projects have focused on targeted communities including Manchester's Kurdish community, Muslim women, and school

children, using nature and community-led urban greening projects to inspire climate action.

- 10.3 The University of Manchester's Leverhulme Trust-funded project, TIES, 'Toward Inclusive Environmental Sustainabilities' is the first in-depth study of immigration and household sustainability in the UK targeting the Somali and Pakistani communities. Little is known about culturally specific notions of sustainability and how green agendas are practiced by immigrants with non-Western views and lifestyles. Moreover, sustainability is often viewed by some population groups as elitist and non-inclusive. This project aims to address these issues. The Neighbourhood Team is working alongside the University to support this work.

In promoting climate change awareness consideration has been given by the Neighbourhood Teams to the locations of events and initiatives including:

- Working with faith groups and communities in the wards to bring climate change activities into planned activities for example, the recent Cheetham Cultural Festival included an event hosted at 'The Yard,' which focused on ethical fashion and tackling overconsumption in the industry. There was also a climate change/reduce, reuse, recycle information stands on both days of the festival weekend. (Ukrainian Centre and Crumpsall Horticultural Centre).
 - Working with LGBT foundation to feed into ION communications. Upcoming "Stories we love" to feature the Derek Jarman Pocket Park Volunteers (over 50s LBGT group) activity on International Day of Older People, ahead of the installation of a new green space they have helped to design.
 - Promoting community cohesion by bringing members of local communities into faith spaces. In Cheetham, there are upcoming community screenings of David Attenborough documentary, "A Life on our Planet" and follow up workshops at New Testament Church of God and Khizra Mosque. Local climate action projects will be planned with CCNO support based on attendee's ideas and feedback.
- 10.4 In the development of Ward Climate Change Action Plans and Neighbourhood Plans consideration is given to ensuring the diversity and characteristics of the area are identified so that citizens are not excluded from participation and that messages are relevant to people's lives and circumstances.
- 10.5 A priority for the Wythenshawe Team Around the Neighbourhoods is Improving carbon literacy levels of residents by focusing on "saving energy; saving money" to increase climate awareness. The initiative has pulled together Groundwork's EnergyWorks Team and Wythenshawe Community Housing Group to produce promotional material that demonstrates what can be achieved by making changes to how people heat and light their homes. Small changes in behaviour can have a significant impact if replicated across the population.

- 10.6 Those communities for which there are barriers to engaging with the climate change agenda are being identified and the communication channels reviewed so that people are not excluded. A range of communication methods will be adopted that do not depend solely on social media. Monitoring barriers to inclusivity and diversity and developing models of good practice will be part of the quarterly monitoring process for the ward climate change action plans. Good practice and learning from ION and other projects will be shared.

11.0 Communications

- 11.1 MCC communications team will be developing a city-wide communications campaign in the new year following the completion of the ward climate action plans. The campaign will highlight the activities and initiatives being developed at a local level and where good practice has been identified it will aim to inspire other communities to replicate elsewhere. The campaign will provide messages and materials that can be used by the Neighbourhood Teams to bring to events and meetings to promote the climate change agenda and provide tools to facilitate discussion.

Evaluation and insight gathered via the In Our Nature project will be used to inform campaign planning. Currently the Council is using its corporate and neighbourhood social media channels to amplify the activity and engagement being delivered at neighbourhood level via the 'In our Nature' campaign. In the meantime, the focus is on communicating the Council's zero carbon journey, ambition and work on key projects including.

11.2 COP26 plans

There will be an intensive focus on key activities in the run up to COP26 with a press and/or social media activity to promote key projects such as large-scale energy generation plans and the 'opening' of the Civic Quarter Heat Network. At the ward level, activities have been planned for this period such as ward climate events in Ardwick and the city centre, an anti-idling day of action and a relaunch of the commercial waste project in the city centre.

11.3 Website

New website content is being developed on www.manchester.gov.uk to showcase the Council's zero carbon ambition, governance, key projects and actions. The new content includes online quarterly update reports. The development of the web pages will continue over the coming months to add more detail on projects and neighbourhood activity.

The council is embedding its carbon reduction ambitions into other initiatives and events to reach as wide an audience as possible this includes. The events and campaigns have been supported by Neighbourhood Teams including.

- **Clean Air - Domestic burning prevention campaign:** A domestic burning prevention campaign to discourage burning solid fuels in homes or garden bonfires will launch from 15 November.

- **Clean Air Day 2021:** Amplified the annual Clean Air Day campaign using TfGM's campaign materials. Generating discussion around how parents get to school and asking them to share their journeys, promoting the trialing of school road closures
- **Clean Air Zone:** TfGM's Clean Air Zone campaign and consultations have been, and will continue to be, promoted.
- **National Recycling Week – September 2021:** During this week five locations in north Manchester hosted pop-up recycling and climate change information stands, supported by Biffa and Neighbourhood Officers.
- **Recycling:** The Neighbourhood Teams and key partners carried out a door knocking and leafleting exercise involving 5000 properties during a two-week period of action in September 2021 and leaflets advising students on how, and what to recycle. Social media messages ran to support this work.

12.0 Measuring ward carbon emissions and impact

- 12.1 As ward climate change plans develop it will be necessary to relate these to the carbon emissions occurring within wards to demonstrate impact. Research has been undertaken by the Tyndall Centre on how CO₂ emissions could be estimated at the ward level through collection of several data sets. The data sets recognise that the largest emitters of carbon are through energy consumption within buildings and transport.
- 12.2 The Tyndall Centre is gathering information and estimating carbon emissions for the six wards where there is an ION pilot (Hulme, Moss Side, Rusholme, Newton Heath and Miles Platting, Levenshulme, and Northern Quarter in Piccadilly) and for the Arrowfield Estate, to assist the development of initiatives within the pilot areas.
- 12.3 The Tyndall Centre has used the Centre for Research into Energy Demand Solutions (CREDS) Place-Based Carbon Calculator tool as a starting point for measuring carbon generation. This is a free tool which estimates the per-person carbon footprint for every Lower Super Output Area (LSOA) in England. Access to the calculator is via the following link.
<https://www.creds.ac.uk/new-neighbourhood-carbon-calculator-helps-communities-target-action-on-local-emission-hotspots>
- 12.4 For identifying carbon generation in the 26 wards, which do not have ION pilot, it is proposed to use the CREDS tool as a helpful baseline and to facilitate discussion. As the data is shown at LSOA rather than ward level CREDS data is available as a proxy indicator. Additional data held by the Council's Performance, Research and Intelligence Team will be used in addition to CREDS data to show levels of CO₂ mitigating activities broken down by ward. This includes data for traffic flows, recycling, and public transport patronage.
- 12.5 Many of the data sets used by Tyndall and CREDS have long timelines for collation and to demonstrate impact. The ward climate change action plans are concerned with behaviour change and engagement and a series of other measurements will be collated to identify attitudes and perceptions.

- 12.6 The Manchester Climate Change Agency consultation on Framework V2 will collect stakeholder insight on climate actions already being taken by communities, and any barriers to action that might exist. The consultation captures postcode data so that results can be broken down by ward. The qualitative data captured in this consultation will feed into the ward-level baseline.
- 12.7 Progress of ward climate action plans will be reported quarterly. Neighbourhood Officers will also record outputs from engagement, including for example, the number of people in attendance of climate change events, the number of split recycling bags or other climate change items handed out at events, or the number of trees planted in a ward. A standard questionnaire will be used to capture qualitative data such as strengths, barriers, and attitudes towards climate action.

13.0 Learning and Development

- 13.1 Councillors play a key role working with the Neighbourhood Teams to help facilitate discussion with communities on carbon reduction. To assist Councillors develop their knowledge to have a discussion with residents it is planned to develop a series of member learning sessions with councillors. The sessions will enable Councillors to discuss and share information on issues faced in developing their Ward Climate Change Action Plans.
- 13.2 The sessions will mirror recent sessions delivered to the three Neighbourhood Teams developed by the CCNOs and include the following topics:
- What constitutes climate change activity at the ward level.
 - Ward climate action plans and pilot projects (key themes arising/main activities identified/timetable for production).
 - Presentation on carbon calculations at the ward level and how impact is to be measured using both quantitative and qualitative data.
 - What Councillors would like to see in future learning sessions and support is required?

It is planned to roll out the first of these sessions in the current calendar year.

14.0 Conclusions

- 14.1 The report provides an overview of the wide range of activity that the Neighbourhood Teams are working on with communities and partners to impact on climate change and assist the city achieve its carbon reduction targets. It demonstrates the wide commitment towards local activity to support the ambitious targets for the city and complement the wider investment in infrastructure and other work streams identified in the Council's Climate Change Action Plan.
- 14.2 The Ward Climate Change Action Plans form the foundations in engaging and capturing bottom-up climate change activities. All wards are on track to have completed their plans by the end of the calendar year. Compilation of quarterly

monitoring of the activities within the plans from the new calendar year will provide insight in the impact the plans are having on behaviour change and numbers of people being engaged. Understanding of the main carbon emissions at the local level through work of the Tyndall Centre and use of the CRED tool should facilitate discussion regards the prioritisation of activities and their impact on carbon reduction as our learning develops. Learning sessions for local Councillors should assist Councillors to work with the neighbourhood teams to drive the climate change agenda at the local level ensuring that the actions are appropriate to the locality and that engagement is accessible to the whole community.

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APPENDIX 1: Types of Local Climate Change Actions in Ward Climate Change Action Plans

Ward Climate Change Action Plans have been completed and signed off by local councillors for half the wards in the city. The remainder will be completed by 31st December 2021. Identified below are examples of the type of the local climate change actions developed to date within the city with the support of local communities and organisations.

Climate Communication:

Projects include:

- Hulme ward have commissioned community photographer Len Grant to put together a compilation of climate activity across the ward. It will include hand drawn sketches as it documents community actions in response to the climate emergency. It will highlight valuable work with the aim of inspiring future action.
- Odd Arts are being commissioned to work with two schools in Newton Heath & Miles Platting and Moston, to deliver a climate communication project over spring term 2022. This will culminate in theatrical pieces designed and performed by the pupils.
- Great Places and the Neighbourhood Team in Longsight are providing carbon literacy training for residents.
- Harpurhey based project Doing Zero brings together resident groups from North Manchester and Kawangware in West Nairobi, through exploration of climate change and food growing. Over four workshops in September, community members in the two cities were brought together to address what local people can do in their communities to take meaningful climate action, Topics included: Eating Habits & Emissions, Future Foods, Sustainable Structures, and Urban Farming. A follow-on exhibition is planned at Manchester School of Art in November 2021.

Green Spaces and Nature based solutions:

Projects include:

- Central Neighbourhood Team in Hulme, Moss Side and Rusholme has worked with communities to expand the initiative called 'My Wild Neighbourhoods' which connect communities and spaces through activities such as bulb planting, hanging baskets, wildflower planting and increasing local diversity. Bug hotels, bird and bat boxes have also been introduced.
- Residents in Moss Side are being supported to take on a more green and creative way to deter fly tipping in their passageway transforming dirty, dull, and grey areas into green and clean planted spaces.
- Debdale Nature Trail within Debdale Park, Gorton and Abbey Hey, used NIF to create the trail and engage the community on fauna and flora. Debdale Nature Centre produces monthly nature newsletters and provides activities such as FrogWatch 2021 and insects workshops.

- The Butterfly Garden and Gorton Heritage Trail has been created following the Hyde Road widening scheme. Gorton Heritage Trail group has now planted hundreds of spring bulbs and trees and created a destination location.
- Constable Street Memorial Gardens, Gorton and Abbey Hey, are being restored to create a bee-friendly green space with a living Christmas tree.
- Let's Keep Growing group in Longsight, was established using NIF and has successfully bid for Eco Streets funding to develop pollution screens and increase biodiversity at Slade Lane Triangle.

Transport and Clean Air:

Projects include:

- Junior PCSO schemes: These were set up to tackle anti-idling around primary schools. In the Central area all primary schools in Hulme, plus schools in Moss Side (St Mary's and Claremont), Rusholme (Heald Place) and Longsight (St Agnes and Longsight Community) are engaged in these schemes. Local schools and communities have been brought together to tackle air pollution by joint action days.
- Wythenshawe Cycleway Greenway: Involving re-opening overgrown off road Cycle Routes. A group of volunteers including Wythenshawe Waste Warriors have cleared old overgrown cycle paths across Wythenshawe. The work, all carried out by hand, exposed several miles of now useable walking and cycling paths linking the existing network and new routes funded through TFGM in 2020 from the civic centre area, Wythenshawe Park, local schools and employment sites.
- A City Centre Engine Idling campaign which has resulted in increased reporting by residents with details of vehicles for the compliance team to follow up. The Neighbourhood Team organised a day of action on Clean Air Day in which 75 vehicle drivers were engaged and provided with information about the impact on air quality and on the health of city centre residents and businesses. This will be repeated in November 2021.
- Research from the 'tredge' (tree species maintained as hedges) installation at St Ambrose RC Primary School in Chorlton Park has shown that planting Western red cedar tredges results consistently in measurable reductions in airborne particulate matter.

Measuring Air Quality:

Projects Include:

- An air quality sensor has been installed at Claremont Primary School, Moss Side. The project has been led by the Central Neighbourhood Team working in partnership with Manchester Metropolitan University who are hosting the data and providing education for pupils on the findings and ways to improve air quality.
- Cheetwood Community Primary School in Cheetham has worked with Environmental Protection team and AirSensa to install diffusion tubes on school grounds (this improves the air quality rather than monitoring). It is

changed monthly and reduces the nitrogen dioxide (NO₂) levels in the air – associated with heightened car use at pick-up/drop off times.

Schools and Young People:

Projects include:

- An Environmental Youth Group has been launched in the Old Moat and Withington Wards to be active and make decisions regards greening public spaces and help change behaviors of the community towards waste generation and recycling. 8 out of 9 schools have confirmed participation in the Group and several have offered to host the first meeting to be held this calendar year. It is planned that older students at the high school will be mentors and facilitators.
- St Chad's RC Primary School (Cheetham) has been successful in receiving funding to deliver a new community green space (Cheetham has the least canopy cover of any ward except Piccadilly). The large space will serve as an outdoor classroom for pupils, as well as allowing public access during evenings and weekends with the assistance of residents as key holders/ grounds monitors. Features will include tree installation, a pond, community vegetable growing planters, insect hotels, making compost and active travel paths away from public highways.
- North CCNO attending meetings with Manchester Youth Council and working to support the roll out of their recently developed Climate Change Wheel for use in schools. The tool is designed to support young people in identifying effective ways to continuously reduce their individual carbon footprint.

Food and Growing:

Projects Include:

- The Creative Climate Resilience project (led by the University of Manchester) worked in partnership with social housing provider Jigsaw, North Neighbourhood Team and a local church in Miles Platting to deliver creative workshops for young people and families over the summer holidays which focused on climate, food and art. This work was funded through the Holidays Activity Fund (HAF).
- Manchester Active and Sow the City partnership is delivering a food growing project in Beswick, Newton Health and Miles Platting in which 700 boxes are being delivered to homes to encourage home grown food.
- Platt Fields Market Garden in Fallowfield is a community market garden located on the site of a former MCC Parks Bowling Pitch which was transferred to Manchester Urban Diggers, a group from the Community Supported Agriculture (CSA) network. The site is now food growing hub providing growing space and food education for its volunteers. The site also offers members a Veg Box Subscription service as well as sell produce to visitors on site and even supplies fresh produce for local restaurants and has developed their own fruit, herb and vegetable-based products.

- Ryder Brow Community Allotment, Gorton and Abbey Hey, has been restored by the community to create a space for residents to grow food, meet and provide courses on healthy food and horticulture.
- Food growing and green knowledge workshops are the main activity at Carlton Community Garden project in Whalley Range. They also run sessions for all ages from very young to older people in the community to learn how to grow food and plants that benefit them and the environment. They also have a green shed using renewable energy to charging tools and a wind turbine.

Reduce, Reuse and Recycle:

Projects Include:

- Tree of Life Centre Wythenshawe and South MCR: The Centre operates a furniture collection and recycling re-use project from the on-site shop. This includes the collection of used fridges for full repair by their fully trained accredited volunteer P.AT Electrical Appliance Tester. This refurbishing and reuse of fridges, furniture and electrical goods produces significant carbon savings by diverting household appliances from landfill.
- Longsight Market have improved their cardboard recycling service and are working with traders on eliminating single use plastic.
- In order to recycle more the Whalley Rangers are running their own recycling project for items that MCC do not currently recycle. These are items such as plastic bottle tops and bluster packs and crisp packets. These are sold on to companies and provide income for the group.

Building community resilience to the impact of climate change:

- Following the potential of flooding along the Mersey Valley in south Manchester in January 2021 East and West Didsbury have included within their Ward Climate Change Action Plans the development of community flood plans. The aim is to build a network of volunteers and communication channels to assist neighbourhood teams and the emergency services to inform and warn residents if a potential flooding situation occurs in the future.

Appendix 2: Schools who have held Trial One Day “School Street” Road Closures

- 20 Schools involving 6,656 Pupils held at least one session
- 34 Sessions involving 12,343 pupil days

| School Name | Ward | No. Of Pupils | No. of Sessions Held (2018 to Sept 21) |
|---|--------------------|---------------|--|
| St Margaret Mary's RC Primary | Charlestown | 327 | 2 |
| Cheetham C of E Primary | Cheetham | 660 | 1 |
| Saviour CofE Primary School | Cheetham | 221 | 1 |
| Brookburn Primary | Chorlton | 458 | 4 |
| Oswald Road Primary | Chorlton | 668 | 1 |
| Chorlton C of e Primary | Chorlton | 234 | 1 |
| Barlow Hall Primary | Chorlton Park | 330 | 1 |
| St Wilibroads Primary | Clayton & Openshaw | 256 | 1 |
| Beaver Road Primary | Didsbury East Ward | 707 | 1 |
| St Augustine Primary | Harpurhey | 231 | 2 |
| Manchester Communications Primary Academy | Harpurhey | 424 | 3 |
| Webster Primary | Hulme | 490 | 1 |
| Chapel Street Primary | Levenshulme | 698 | 1 |
| Alma Park | Levenshulme | 490 | 1 |
| Lily Lane Primary | Moston | 646 | 1 |
| St James Primary | Rusholme | 235 | 1 |
| St Margaret's CofE Primary | Whalley Range | 617 | 2 |
| Manley Park Primary | Whalley Range | 445 | 3 |
| Our Lady Primary | Whalley Range | 227 | 1 |
| St Pauls Primary | Withington | 350 | 5 + |

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Appendix 3: Schools participating in creating Traffic Restriction Orders to create permanent School Streets

| School Name | Ward |
|---|---------------|
| Manchester Communication Primary Academy | Harpurhey |
| Brookburn Community Primary | Chorlton |
| Manley Park Primary | Whalley Range |
| Our Ladys Primary | Whalley Range |
| St Pauls Primary | Withington |
| St Augustines Primary | Harpurhey |
| St James C of E Primary | Rusholme |

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Appendix 4: Streets where at least one Play Street Session held since 2019 (52 streets)

| Street Name | Ward |
|--|--------------------|
| Hartfield Close to Orchard Allotments adj Brunswick Church - Brunswick Street - | Ardwick |
| Overlea Drive | Burnage |
| Scarisbrick Road - adj to Fallowfield Loop Cycleway | Burnage |
| NewsholmeStreet | Cheetham |
| BrookburnRoad | Chorlton |
| Kingshill Road | Chorlton |
| Manchester Road | Chorlton |
| Vicars Road | Chorlton |
| Wilbraham Road | Chorlton |
| BrundettsRoad | Chorlton Park |
| Chandos Road South | Chorlton Park |
| Chatburn Road | Chorlton Park |
| Clovelly Road | Chorlton Park |
| Floyd Avenue, M21 7LU | Chorlton Park |
| Hough End Avenue | Chorlton Park |
| Merseybank Avenue | Chorlton Park |
| Merseybank Avenue (Winterburn to Waterside Close | Chorlton Park |
| Mottram Avenue | Chorlton Park |
| Napier Road | Chorlton Park |
| Redland Crescent | Chorlton Park |
| Sandy Lane | Chorlton Park |
| Torbay Road | Chorlton Park |
| Whalley Avenue | Chorlton Park |
| Coronation Street | Clayton & Openshaw |
| Himley Road | Clayton & Openshaw |
| Vale Street | Clayton & Openshaw |
| Walsden Street | Clayton & Openshaw |
| Gaddum Road | Didsbury East |
| Bakewell Street | Gorton |
| Phelan Close | Harpurhey |
| Shiregreen Avenue | Harpurhey |
| Wroxham Road | Higher Blackley |
| Heron Street | Hulme |
| Royce Rd (near to the Sanctuary Centre) | Hulme |
| Chapel Street | Levenshulme |

| | |
|-----------------------------|-------------------------------|
| Harrison Avenue | Levenshulme |
| Poplar Avenue | Levenshulme |
| Seddon Street | Levenshulme |
| Hopkins Street, M12 4NY | Longsight |
| Turnbull Road, M13 0PZ | Longsight |
| Redgate Lane (part) | Longsight |
| Canada Street | Miles Platting & Newton Heath |
| Ramsgate Road, M40 2XE | Miles Platting & Newton Heath |
| Acomb Street | Moss Side |
| Parkfield Street | Moss Side |
| Rushey Road | Northenden |
| Meldon Road | Rusholme |
| College Road | Whalley Range |
| Woodlands Road – Blair Road | Whalley Range |
| York Avenue | Whalley Range |
| St Pauls Road | Withington |
| George Mann close | Woodhouse Park |
| Total No. Of Streets | 52 Streets |

**Manchester City Council
Report for Information**

Report to: Environment and Climate Change Scrutiny Committee – 11 November 2021

Subject: Manchester City Council Estates Decarbonisation

Report of: The Head of Estates and Facilities

Summary

This report describes the activities and progress to date on the decarbonisation of Manchester City Council's operational estate. It describes the Carbon Reduction Programme, including MCC and grant funded retrofit projects delivered under the Public Sector Decarbonisation Scheme, as well as major capital schemes that are delivering energy efficiency and carbon reduction measures. The report also describes projects that are in development. The Council's Climate Change Action Plan 2020-25 includes a target to reduce annual emissions from the operational estate by 4,800 tCO₂. The projects described in this report that are currently in delivery are expected to achieve 74% of this target. If the set of projects described as 'in development' are delivered, this will achieve at least 92% of the target. A number of other refurbishment projects are underway that are above and beyond the Carbon Reduction Programme. These will contribute further to the overall target. Officers are actively looking at further proposals to build on the momentum of the existing work and deliver further phases of carbon reduction projects.

Recommendations

The Committee are recommended to note the activities and progress to date on the decarbonisation of Manchester City Council's operational estate; and to note the pipeline of future projects that are in development.

Wards Affected: All

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

The Council's property assets are a significant area of focus in efforts to achieve the zero-carbon target for the city. In terms of the Council's direct carbon emissions, in 2019/20 the Council's operational buildings accounted for around 75% of the total emissions. The Council's direct CO₂ emissions overall reduced by 54.7% between 2009/10 and 2019/20. Emissions from energy use in Council buildings have reduced again in 20/21 compared to the same period the previous year; this has been driven by the installation of energy efficiency measures and renewable energy generation capacity, and further affected by the decarbonisation of the national grid and the changes to building use caused by the Covid-19 pandemic. This report includes an update on projects underway to deliver carbon reduction activity on the estate.

| Our Manchester Strategy outcomes | Summary of how this report aligns to the OMS |
|---|---|
| A thriving and sustainable city: supporting a diverse and distinctive economy that creates jobs and opportunities | The delivery of carbon reduction activity to the Council's estate in Manchester will support the local construction supply chain and in particular the low carbon sector. |
| A highly skilled city: world class and home grown talent sustaining the city's economic success | The delivery of carbon reduction activity to the Council's estate in Manchester will support the development of new skills within the Council and supply chain, specifically around heat pump technology. |
| A progressive and equitable city: making a positive contribution by unlocking the potential of our communities | Everyone has a role to play in tackling climate change, and learning from the Council's carbon reduction activities can be shared to support and inspire other schemes across Manchester's communities. |
| A liveable and low carbon city: a destination of choice to live, visit, work | The delivery of carbon reduction activity to the Council's estate will directly contribute to reducing carbon emissions in the city. |
| A connected city: world class infrastructure and connectivity to drive growth | The Civic Quarter Heat Network provides infrastructure to drive green growth in the city centre, and the delivery of the Public Sector Decarbonisation Scheme in Manchester includes delivering battery technology that can support the cities electricity infrastructure to become more sustainable. |

Contact Officers:

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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.

Resources and Governance Scrutiny Committee – 20 July 2021: Delivery of the Public Sector Decarbonisation Scheme

Environment and Climate Change Scrutiny Committee - 9 September, CCAP Annual Report 2020-21 and Work Programme 2021-22

1.0 Introduction

- 1.1 The Council declared a Climate Emergency in July 2019 which recognised the need for the Council, and the city as a whole, to do more to reduce CO₂ emissions and mitigate the negative impacts of climate change. It also demonstrated the Council's commitment to be at the forefront of the global response to climate change and to lead by example. The Council had already adopted a science-based carbon budget for Manchester of 15 million tonnes of CO₂ between 2018 and 2100 following analysis by the Tyndall Centre for Climate Change Research. This also committed the city to become zero carbon by 2038 at the latest.
- 1.2 The Council's Climate Change Action Plan 2020-25 (CCAP 2020-25) was developed to ensure that all aspects of the Climate Emergency Declaration were converted into clear actions with tonnes of CO₂ savings included where applicable. The plan builds on over a decade of previous activity which has seen the Council's direct CO₂ emissions reduce by 54.7% between 2009/10 and 2019/20.
- 1.3 This report describes the activities and progress to date on the decarbonisation of Manchester City Council's operational estate. It briefly describes the nature of the operational estate and sets out the emissions data since April 2019. It describes the work that is being delivered to reduce carbon emissions across the operational estate, both as part of the Carbon Reduction Programme, as well as other projects and areas of work that are underway. The report also describes some future projects that are in development.
- 1.4 The Council's Climate Change Action Plan 2020-25 includes a target to reduce annual emissions from the operational estate by 4,800 tCO₂. The projects described in this report that are currently in delivery are expected to achieve 74% of this target. If the set of projects described as 'in development' are delivered, this will achieve at least 92% of the target. There are a number of projects in development where design is not yet sufficiently advanced to include a specific savings target. As these progress they will contribute further to achieving the overall target. A number of other refurbishment projects are underway that are above and beyond the Carbon Reduction Programme. These projects do not have specific targets captured in the Council's Climate Change Action Plan 2020-25, but will contribute further to meeting the overall target. Officers are actively looking at further proposals to build on the momentum of the existing work and deliver further phases of carbon reduction projects.

2.0 Background

- 2.1 The emissions associated with the Council's operational buildings are reported against in the Buildings & Energy section of the CCAP 2020-25. 316 buildings of varying age, condition and function are currently reported against, although this number does vary to account for acquisitions and disposals. These buildings include offices, including the Town Hall Complex, as well as depots, leisure centres, libraries, markets, properties that provide social care services

to adults and children, and buildings in parks, including a number of heritage properties such as Heaton Hall and Wythenshawe Hall. It also includes a number of high profile buildings owned by the council but operated by third parties, for example the Bridgewater Hall, the National Cycling Centre, and the National Football Museum. Schools and social housing are not included in the operational estate.

- 2.2 The total emissions associated with the operational estate in 2019/20 were 24,071 tCO₂, approximately three quarters of the total emissions from Manchester City Council as a whole. The CCAP 2020-25 requires carbon emissions from the Council's buildings to reduce by a minimum of 4,800 tCO₂ per annum by April 2025. For context, the target of 4,800 tCO₂ is approximately equivalent to the combined total annual emissions of the Town Hall Extension, Manchester Aquatic Centre and Manchester Art Gallery combined.

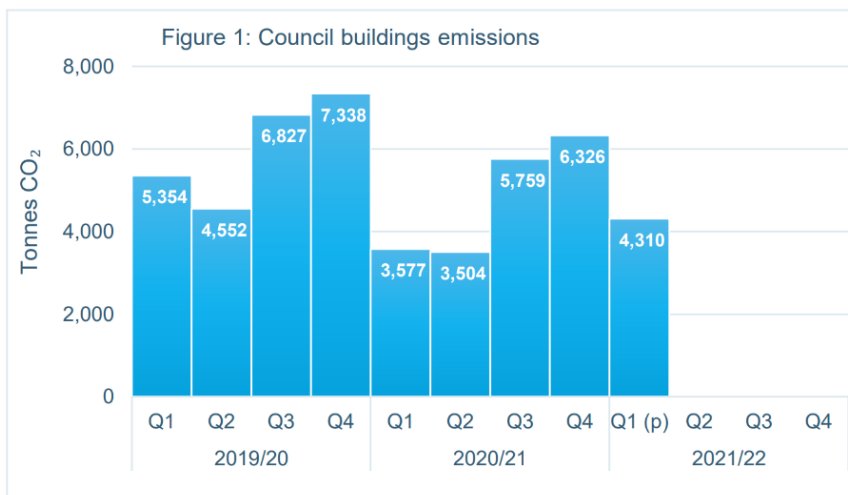


Figure 1: Council Building Emissions from 2019/20

- 2.3 Figure 1 shows a quarter-by-quarter view of building emissions from April 2019. It shows both seasonal differences, e.g. energy consumption and emissions peaking in winter, the impact of COVID-19 on overall trends. Two years of data are shown as COVID-19 meant that emissions in 2020-21 aren't representative. It is more meaningful to compare Q1 in 2021-22 to Q1 in 2019-20, rather than to last year. This shows that emissions from energy use in Council buildings in Q1 2021-22 are currently 19% lower than in Q1 2019-20. It should be noted that emissions data for the latest quarter has to include some element of a best estimate, for example where accurate billing or monitoring data will become available in future periods, hence the figure is marked as (p) for provisional.

3.0 Carbon Reduction Activity

- 3.1 A Carbon Reduction Programme has been established to oversee the delivery of a wide range of energy efficiency and low carbon energy generation measures throughout the estate.

- 3.2 The table below demonstrates the total in flight and planned work of the Carbon Reduction Programme. These are projects commissioned specifically to improve energy efficiency, decarbonise heat or install renewable energy generation and storage. Appendix 1 provides a further breakdown of the individual technologies associated with these projects. Currently there are £29m of projects in flight, 89% of which are already complete or due to complete by Q4 2021/22, with the remainder due to complete by Q1 2023/24. Once complete these projects are forecast to save circa 3,500 tCO₂ per annum. To date a pipeline of additional projects of around £6.6m have been identified for delivery from 2022/23 onwards, saving a further 800 tCO₂ per annum once complete. In total these projects represent 92% of the Buildings savings target in the CCAP 2020/25.

| Building | In Flight | | Pipeline | | Total | |
|---------------------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|
| | £ Investment | tCO ₂ Saving PA | £ Investment | tCO ₂ Saving PA | £ Investment | tCO ₂ Saving PA |
| Arcadia Leisure Centre | £ 1,427,841 | 117 | £ - | - | £ 1,427,841 | 117 |
| Belle Vue Sport Centre | £ 441,581 | 169 | £ - | - | £ 441,581 | 169 |
| East Manchester Leisure Centre | £ 1,831,359 | 220 | £ - | - | £ 1,831,359 | 220 |
| Hough End Leisure Centre | £ 1,629,914 | 154 | £ - | - | £ 1,629,914 | 154 |
| Manchester Tennis and Football Centre | £ 380,829 | 61 | £ - | - | £ 380,829 | 61 |
| Moss Side Leisure Centre | £ 1,061,046 | 78 | £ - | - | £ 1,061,046 | 78 |
| North City Leisure Centre | £ 1,825,265 | 260 | £ - | - | £ 1,825,265 | 260 |
| Space Studios | £ 2,703,804 | 145 | £ - | - | £ 2,703,804 | 145 |
| Sharp Project | £ 2,835,117 | 348 | £ - | - | £ 2,835,117 | 348 |
| Town Hall Extension | £ 1,453,628 | 169 | £ - | - | £ 1,453,628 | 169 |
| Wythenshawe Forum | £ 2,875,791 | 483 | £ - | - | £ 2,875,791 | 483 |
| Manchester Aquatic Centre | £ 2,807,487 | 505 | £ - | - | £ 2,807,487 | 505 |
| National Cycling Centre | £ 5,755,030 | 600 | £ - | - | £ 5,755,030 | 600 |
| Zion Arts Centre | £ 1,011,652 | 79 | £ - | - | £ 1,011,652 | 79 |
| Hammerstone Rd Depot | £ 782,945 | 169 | £ - | - | £ 782,945 | 169 |
| Heathfield Resource Centre | £ 55,936 | 5 | £ - | - | £ 55,936 | 5 |
| Harpurhey District Office | £ 53,437 | 5 | £ - | - | £ 53,437 | 5 |
| Longsight Library and Learning Centre | £ 55,693 | 5 | £ - | - | £ 55,693 | 5 |
| Chorlton Sure Start | £ 23,518 | 2 | £ - | - | £ 23,518 | 2 |
| Harpurhey District Office | £ - | - | £ 474,293 | 38 | £ 474,293 | 38 |
| Active Lifestyle Centre | £ - | - | £ 282,752 | 29 | £ 282,752 | 29 |
| Claremont Resource Centre | £ - | - | £ 384,977 | 43 | £ 384,977 | 43 |
| Didsbury Library | £ - | - | £ 319,238 | 41 | £ 319,238 | 41 |
| Hall Lane Resource Centre | £ - | - | £ 837,372 | 105 | £ 837,372 | 105 |
| The Place at Platt Lane | £ - | - | £ 340,712 | 22 | £ 340,712 | 22 |
| Arbeta | £ - | - | £ 1,833,588 | 216 | £ 1,833,588 | 216 |
| National Football Museum | £ - | - | £ 1,429,582 | 188 | £ 1,429,582 | 188 |
| Bridgwater Hall | £ - | - | £ 741,781 | 179 | £ 741,781 | 179 |
| | £ 29,011,873 | 3,574 | £ 6,644,295 | 861 | £ 35,656,168 | 4,434 |

- 3.3 The table below demonstrates how the works above are being funded. The Council has been successful in securing just over £20m of grant funding from both the Public Sector Decarbonisation Scheme (PSDS) and the European Regional Development Fund, with bids for a further £4.5m submitted and awaiting decision. Manchester was awarded the highest proportion of PSDS funding in Greater Manchester during the first round of bidding.

| Funding | Value |
|---|--------------------|
| MCC Capital Funding (including match funding) | £10,304,917 |
| European Regional Development Fund | £1,208,202 |
| Public Sector Decarbonisation Scheme Round 1 | £19,673,768 |
| Public Sector Decarbonisation Scheme Round 3* | £4,469,281 |
| | £35,656,168 |

*Nb. Bid submitted in Oct21

- 3.4 The Carbon Reduction Programme is being delivered in several different phases. The first phase of works was developed on a spend to save basis and funded with MCC Capital Funding. In total £6.6m of carbon reduction works were identified, with a forecast carbon saving of circa 1,400 tCO₂ per annum and a payback period in the region of 10 years. Delivery of this initial phase of works was delayed slightly by the first COVID-19 lockdown but works are now largely complete, with any outstanding projects due to complete by the end of this financial year.
- 3.5 The programme focused on Leisure Centres, as they are some of our most energy intensive buildings, and eight were upgraded with energy conservation measures as part of the Carbon Reduction Programme: Wythenshawe Forum; East Manchester Leisure Centre; Hough End Leisure Centre; Arcadia Sports Centre; Moss Side Leisure Centre; North City Family and Fitness Centre; Belle Vue Sports Centre; and Manchester Tennis and Football Centre. The improvements cover a range of measures such as upgrading to LED lighting, improving lighting controls, upgrading Building Management Systems, and installing variable speed drives, as well as solar panel installations at seven of the sites, and an energy efficient combined heat and power plant at the Wythenshawe Forum. In addition to the leisure estate, the lighting in the Town Hall Extension, our largest building, was upgraded to LED, and new controls installed. The large buildings at the Space Project and Sharp Project are also being improved, the former with a large solar panel installation, the later with solar panels, LED lighting and a new building management system. Throughout this phase of work, 2.5MW of renewable energy generation capacity was installed, and 9,000 LED light fittings were installed.
- 3.6 The second phase of the Carbon Reduction Programme is a project called the Unlocking Clean Energy In Greater Manchester (UCEGM) Project. This is a consortium of partners including Energy Systems Catapult and five Greater Manchester local authorities - Manchester, Rochdale, Salford, Stockport, and Wigan. The project has two key parts, first the installation of renewable generation assets partly funded by the European Regional Development Fund grant, and second, the development of new business models to promote self-consumption of energy by the Local Authorities. The aim of these business models is to improve the business case for renewable energy generation projects by improving the value of energy generated, lowering the cost of energy supply and reducing the carbon intensity of electricity in the local area.

- 3.7 Through its participation in this project, the Council successfully attracted over £1.2 million of European Regional Development Fund which is being matched to the Council's capital investment to deliver a large rooftop solar scheme and battery at the Hammerstone Road depot in Gorton, and Solar PV on car ports at the National Cycling Centre, saving an estimated 415 tCO₂ per annum when complete. Both projects are in flight with designs being developed currently. Both projects have dependencies on wider refurbishment projects and are working to a deadline of 30th June 2023 for completion.
- 3.8 The third phase of the Carbon reduction Programme was a bid to the The Public Sector Decarbonisation Scheme (PSDS). This scheme is run by the Department for Business, Energy and Industrial Strategy (BEIS) and administered by Salix. The PSDS provides capital grant funding for energy efficiency and heat decarbonisation projects in non-domestic public sector buildings.
- 3.9 Working with partners in the Greater Manchester Combined Authority, MCC successfully secured £19.67m of funding from Phase 1 of the PSDS to invest in a range of heat decarbonisation, energy efficiency and generation projects. The funding was approved in March 2021. Projects across 11 buildings have been commissioned and are underway, and when complete these are expected to save 1,700 tCO₂ per annum. The buildings included in this phase of work are summarised in the table below. Again, Leisure Centres were a key part of the bid as they are some of the council's most energy intensive buildings. The technologies included in this phase of work include Air Source or Ground Source Heat Pumps, solar panels, and battery storage systems.

| PSDS Phase 1 Buildings | Forecast tCO ₂ Saving PA |
|--------------------------------|-------------------------------------|
| Arcadia Leisure Centre | 58 |
| East Manchester Leisure Centre | 119 |
| Hough End Leisure Centre | 80 |
| Moss Side Leisure Centre | 55 |
| North City Leisure Centre | 182 |
| Space Studios | 33 |
| Sharp Project | 53 |
| Town Hall Extension | - |
| Wythenshawe Forum | 188 |
| Manchester Aquatic Centre | 505 |
| National Cycling Centre | 354 |
| Zion Arts Centre | 79 |

- 3.10 The deadline for all PSDS Phase 1 funded works to complete is the 31st March 2022. It should be noted this is a challenging deadline for works of this type and scale. Each project has demonstrated how it can achieve this deadline, but minimal float has been allowed to achieve this. The PSDS funded works at the Manchester Aquatics Centre, National Cycling Centre and Zion Arts Centre are to be completed as part of wider refurbishment projects being managed by Capital Programmes. Contracts are

in place for these projects, and works at all three of these locations are underway. Designs are complete and contracts have been agreed for the works at Arcadia, Moss Side, North City, Wythenshawe Forum, Sharp and Space and the contractor is preparing to start on site. Designs are being finalised for Hough End and East Manchester Leisure Centres.

- 3.11 A 'Carbon Cost Threshold' was a condition of the funding. At a portfolio level, the investment must cost no more than £487 per tCO₂ saved. The amount of carbon each individual measure saves is calculated by taking the annual carbon saving and multiplying this by its expected lifespan, as defined by Salix (the fund administrator). This target was set at bid stage, and as detailed designs complete and practical constraints are worked through, there is a risk this target is exceeded, meaning some match funding from the Council is required to meet the required threshold. This is being monitored closely with a final position expected to be confirmed in November 2021. Capital funding from the Carbon Reduction Programme is in place to manage this risk.
- 3.12 The decarbonisation of heat - removing our dependency on carbon intensive gas by installing electrically powered heating solutions - is perhaps the biggest challenge to overcome on our journey to reduce carbon emissions from the estate. Typical alternatives to gas boilers, for example heat pumps, come with practical restrictions that need to be overcome before mass adoption of low carbon heat can be achieved. These include the need for larger radiators or underfloor heating; building fabric improvements for better thermal performance and air tightness; and external space for bulky equipment. There are also financial issues to overcome, including higher capital costs, and higher revenue costs, as gas is cheaper than electricity.
- 3.13 Innovative technologies are expected to be required to enable this transition to take place. The carbon Reduction Programme has been working with a company called HydroZero to install an innovative new boiler pilot in Gorton Library. The completely electric HydroZero boiler produces heat through a process of electrolysis, and has the potential to overcome the typical practical constraints described above. The pilot is now installed and generating heat, performance and efficiency levels will be assessed over the winter period.
- 3.14 In addition to the Carbon Reduction Programme, there are a number of other projects that are being delivered which are supporting the decarbonisation of the estate.
- 3.15 The Civic Quarter Heat Network provides a highly efficient, environmentally-friendly heat and power solution for some of Manchester's most iconic buildings, making significant carbon reductions. The network will initially serve seven city centre buildings with the potential to connect more in the future. The buildings connected to the network include the Town Hall, Town Hall Extension and Central Library; Manchester Central Convention Centre; the Bridgewater Hall; Manchester Art Gallery; and Heron House. Heat and power is generated by a 3.3MW Combined Heat and Power (CHP) unit based in a new energy centre near Manchester Central Convention Centre, at the

junction of Great Bridgewater Street and Lower Mosley Street. The energy centre's five flues have been incorporated into a 'Tower of Light' a new sculptural landmark for the city which was designed by award-winning architects Tonkin Liu. The project has installed a 2km network of insulated pipework and cables, to distribute the electricity, heat and hot water to connected buildings - one of the most cost-effective ways of reducing carbon emissions from heating. The network has been designed to enable future expansion, with efficiency and carbon savings increasing as more buildings join. The CHP unit will initially run on gas with the potential to introduce hydrogen into the mix in future to further reduce carbon emissions. The energy centre is currently completing final testing and commissioning and enters full operation in November 2021. The CQHN is forecast to reduce annual carbon emissions by 1,600 tCO₂.

- 3.16 As part of the overall Estate Strategy, a number of major construction projects are underway. These projects are not part of the Carbon Reduction Programme, as they are being delivered to achieve a range of benefits, such as improving customer access to services, rationalising the estate, improving the condition, quality and lifespan of our buildings or meeting new service needs. However, all of the projects include significant opportunities to reduce carbon emissions, over and above the retrofit work carried out by the Carbon Reduction Programme, by installing energy efficient systems and energy generation infrastructure. Some of the most energy intensive buildings in the estate have recently been refurbished, in the case of Alexandra House; or are under refurbishment or construction, including the Town Hall, the Hammerstone Road Depot in Gorton, the Abraham Moss Leisure Centre in Crumpsall, the Gorton Hub, the National Cycling Centre and the Manchester Aquatics Centre. Carbon savings achieved by these projects are not specifically included in the targets set out in the in the CCAP 2020/25, so the benefits delivered by these projects will be over and above these targets.
- 3.17 Alexandra House, our largest office outside the Town Hall Complex, has been comprehensively refurbished and re-opened in February this year. The refurbishment introduced fabric improvements, including improving roof and wall insulation, replacement of windows with double glazing, improved insulation to heat distribution pipework, improved mechanical and electrical systems and LED lighting, and improved building management controls, which are expected to reduce carbon emissions from the building by around 70%.
- 3.18 The Town Hall is currently under refurbishment, and is due to reopen in 2024. The refurbishment of the Grade 1 listed building includes a number of measures to reduce carbon emissions, including insulating the roof and all heating pipework; removing and repairing windows to reduce air leakage, and to make best use of natural ventilation to reduce cooling requirements; connecting to the Civic Quarter Heat Network, and replacing the heating system; fitting LEDs throughout, including heritage luminaires and external lighting; installing a new building management system with zone controls.

- 3.19 Hammerstone Road Depot is undergoing a major refurbishment project which is due to commence fully in December 2021. The project includes a rationalisation of accommodation across the site, consolidating several inefficient remote buildings into one energy efficient hub. In addition to the ERDF funded solar panel scheme already described above, the project includes a range of energy efficiency measures including a new insulated roof, window replacement, wall and cladding insulation, new mechanical and electrical installations including LED lighting, building controls, energy monitoring and expanded electrical vehicle charging infrastructure.
- 3.20 The project to replace Abraham Moss Leisure Centre and Library commenced in early 2021 and is a full demolition and rebuild of a large mixed use leisure centre. The old leisure centre was some 50 years old and whilst it had been refurbished and improved in phases over a number of years many parts of the building fabric and services installation had come to the end of their economically viable life. The new building will be purpose designed to meet high levels of energy efficiency and low carbon in use, including efficient building services, high levels of insulation and rooftop solar electrical generation. The demolition aspect of the project includes wherever possible the recycling of metal, timber and plastic elements and in the case of the concrete elements they are being crushed and recycled on site for use as aggregate below the new building and hardstanding areas minimising waste, reducing site traffic and reducing the need for new quarried materials.
- 3.21 The Gorton Hub is a new multi-agency public sector hub being constructed in Gorton and opening from October 2022. The new building will be an efficient modern environment designed to consolidate a number of users from older, energy inefficient properties. Whilst the primary aim of the project is to deliver high quality public services, the new purpose built building will provide a low carbon operating environment including a well insulated building, modern high efficiency heating systems, LED lighting, high levels of daylighting with associated automation of the artificial lighting installation, rooftop solar electricity generation and a fully zoned and controlled building.
- 3.22 The refurbishment of the National Cycling Centre seeks to address the mechanical and electrical installations of the velodrome and associated areas along with elements of the building fabric which are now at the end of life. The replacement and updating of heating, lighting and power installation along with improvements to the building fabric will significantly reduce the power use and carbon impacts of this immensely successful venue. As already noted above, the full refurbishment is being carried out in parallel with energy efficiency works carried out as part of the Public Sector Decarbonisation Scheme, and the ERDF funded project to install car ports with solar panels in the car parks.
- 3.23 The refurbishment of the Manchester Aquatics Centre, constructed some 20 years ago for the 2002 Commonwealth Games, includes not only an update of the pool operating features to keep in line with latest competition standards but also the introduction of a number of high tech solutions aimed to reduce cost in use and the carbon footprint of the building. Using a mixture of MCC and Central Government grant funding the boilers and heating plant and lighting

installations will be replaced that not only meet modern standards but also significantly reduce energy use and carbon emissions. Alongside the updating of existing installations there will be new initiatives including electrically powered air source heat pumps to generate heat without using gas, solar photo voltaic cells to generate renewable electricity from the roof top arrays and battery storage to maximise the use of power on site whilst more actively managing the electricity usage and modulate power demand so as to reduce peak loads and thereby reduce cost of the externally purchased electricity.

- 3.24 In addition to these larger schemes, electric vehicle charging points have also been installed at the Hooper St, Hammerstone and Longley Lane Depots, to support the increasing electrification of the Council's vehicle fleet, including supporting new electric refuse collection vehicles.
- 3.25 The Capital Gateway approval process and the Capital Strategy have been amended to reflect the Climate Emergency and Climate Change Action Plan. The Manchester Low Carbon Build Standard has been developed and is now implemented in Capital Programmes. The standard contains design guidance for Manchester City Council's new build and refurbishment projects. The areas covered include fabric improvements, decarbonising heat, energy efficient lighting, controls and metering, ventilation, renewable energy generation, reducing water consumption, use of low energy equipment, performance monitoring and recycling. All new projects put forward for inclusion in the Capital Programme must now demonstrate how they comply with the new standard as part of the business case process.

4.0 Future Projects in Development

- 4.1 The Carbon Reduction Programme is a long term investment and commitment to improve the performance of our buildings. Work is ongoing to develop and commission a pipeline of new projects, examples of which are described below, and which will run from April 2022 onwards.
- 4.2 As already highlighted in Section 3.2, above, officers submitted a funding bid to the third round of the Public Sector Decarbonisation Scheme in October 2021, as part of a GMCA consortium. The Manchester element of the bid was for c£4.47m of grant funding, with MCC match funding of c£1.43m, for a total scheme of c£5.9m. At time of writing, a decision from Salix is awaited. The bid includes heat decarbonisation, energy efficiency and low carbon energy generation for eight buildings, including Arbata (MCDA), National Football Museum, Harpurhey District Office, Denmark Road Active Lifestyles Centre, Claremont Resource Centre, Didsbury Library, Hall Lane Resource Centre, and The Place at Platt Lane (Library). The total carbon saving associated with the bid was 680 tCO₂ a year.
- 4.3 A study is already underway exploring the feasibility of installing a roof mounted Solar PV system on the BMX section of the National Cycling Centre. If feasible, this could see a 600 kWp system installed, saving circa 100 tCO₂ per annum.

- 4.4 A feasibility study has been completed to install LED lighting at the Bridgewater Hall, with an expected carbon saving of around 179 tCO₂ a year. Further proposals are in development to upgrade lighting to LED at Central Library and Etrop Court. Officers are developing a rolling programme of LED light replacements in our smaller buildings, to be delivered by our Facilities Management maintenance provider, Equans.
- 4.5 A programme of work is being developed to expand and improve the use of Building Management Systems across the estate. A building management system (BMS) is a computer-based control system that controls and monitors a building's mechanical and electrical equipment such as ventilation, lighting and power systems. Systems linked to a BMS typically represent 40% of a building's energy usage; if lighting is included, this number approaches to 70%. Therefore, BMS systems are a critical component to managing energy demand.
- 4.6 The projects described in paragraph 4.3, 4.5 and 4.6 will be worked up into full business cases between November 2021 and March 2022, and will move forward into delivery from April 2022.
- 4.7 The Council's Climate Change Action Plan 2020-25 includes a target to reduce annual emissions from the operational estate by 4,800 tCO₂. The projects described in this report that are currently in delivery are expected to achieve 74% of this target. If the set projects in development, described under the PSDS 3 bid, and the LED upgrade at the Bridgewater Hall are delivered, this is expected to achieve at least 92% of the target. The other projects described in Section 4 will move MCC even closer to achieving this target.
- 4.8 To date the Carbon Reduction Programme has focused largely on the most energy intensive and largest buildings in the estate, to achieve the maximum carbon reduction benefit in the shortest time. However, most of the estate (in terms of quantity) is made up of a high volume of smaller buildings in the community. Work is underway with the Council's maintenance contractor, Equans, to commission a programme of energy audits across the whole estate. This data is expected to inform the long-term strategy for investment, the total scale of opportunity and key challenges.
- 4.9 The next phases of activity will be increasingly challenging, as they will increasingly involve a larger set of smaller projects across smaller buildings with varying overall physical conditions. However, building on lessons from the first phases of delivery, and equipped with condition and energy audit data, officers will continue to develop proposals to drive down carbon emissions from the estate.
- 4.10 The programme will continue to work with colleagues and partners to identify and take advantage of any external funding opportunities that may emerge. Experience to date is that very little notice of funding opportunities and eligibility criteria is provided, application windows are very short and deadlines for the delivery of works are hard to achieve. However, these opportunities are seen as particularly important to enable the Authority to

accelerate plans to decarbonise heat which accounts for roughly half of all building emissions.

5.0 Conclusions and Recommendations

- 5.1 This report sets out the activities and progress to date on the decarbonisation of Manchester City Council's operational estate. The Council is on track to achieve the overall target of saving 4,800 tCO₂ annually through the Carbon Reduction Programme. The Climate Change Action Plan 20-25 included a baseline figure of 25,789 tCO₂ emitted from the operational estate. The plan anticipated a reduction of 4,800 tCO₂ annually from the Carbon Reduction Programme, and a further reduction of 1,600 tCO₂ from the Civic Quarter Heat Network. The plan forecast a reduction of around 800 tCO₂ from decarbonisation of the National Grid, and a further saving of 7,000 tCO₂ through decarbonising the MCC electricity supply through a large scale generation asset, as described to this Committee in October 2021. These projects will leave residual emissions in the region of 11,500 tCO₂, and officers will continue to develop proposals beyond 2025 to tackle these, through a combination of retrofit activity, decarbonising heat, installing local low carbon energy generation and decarbonising our overall power requirements.
- 5.2 The Committee are recommended to note the activities and progress to date on the decarbonisation of Manchester City Council's operational estate; and note the pipeline of future projects that are in development.

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Appendix 1

| Building | In Right | | Pipeline | | Total | | Zero Carbon Estate Programme Outputs | | | | | | | | | | | | | | | | |
|---------------------------------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------------------------------|----------------------|----------|-----------------|--------------|-------------------|---------------------------|-----------------------|--------|----------------|----------------------|--------------------------------|------------------|------------|----------|---------------|---|
| | £ Investment | tCO2 Saving PA | £ Investment | tCO2 Saving PA | £ Investment | tCO2 Saving PA | Ground Source Heat Pump | Air Source Heat Pump | Solar PV | Battery Storage | LED Lighting | Lighting Controls | Bu Ring Management System | Variable Speed Drives | Fabric | Bu lin Upgrade | Transformer Tap Down | Combined Heat & Power In place | Heating Controls | Pool cover | Chillers | Thermal Store | |
| Arcadia Leisure Centre | £ 1,427,841 | 117 | £ - | - | £ 1,427,841 | 117 | | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | | | | | | | | | |
| Belle Vue Sport Centre | £ 441,581 | 169 | £ - | - | £ 441,581 | 169 | | | ☑ | | ☑ | | | | | ☑ | | | ☑ | | | | |
| East Manchester Leisure Centre | £ 1,831,359 | 220 | £ - | - | £ 1,831,359 | 220 | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | ☑ | | | ☑ | | | | | | |
| Hough End Leisure Centre | £ 1,629,914 | 154 | £ - | - | £ 1,629,914 | 154 | ☑ | | ☑ | ☑ | ☑ | | ☑ | ☑ | | | ☑ | | ☑ | | | | |
| Manchester Tennis and Football Centre | £ 380,829 | 61 | £ - | - | £ 380,829 | 61 | | | ☑ | | ☑ | | | | | | | | | | | | |
| Moss Side Leisure Centre | £ 1,061,046 | 78 | £ - | - | £ 1,061,046 | 78 | | ☑ | ☑ | ☑ | ☑ | | ☑ | | | | | | | | | | |
| North City Leisure Centre | £ 1,825,265 | 260 | £ - | - | £ 1,825,265 | 260 | ☑ | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | |
| Space Studios | £ 2,703,804 | 145 | £ - | - | £ 2,703,804 | 145 | | | ☑ | ☑ | | | ☑ | | | | | | | | | | |
| Sharp Project | £ 2,835,117 | 348 | £ - | - | £ 2,835,117 | 348 | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | |
| Town Hall Extension | £ 1,453,628 | 169 | £ - | - | £ 1,453,628 | 169 | | | | | ☑ | ☑ | ☑ | | | | | | | | | | |
| Wythenshawe Forum | £ 2,875,791 | 483 | £ - | - | £ 2,875,791 | 483 | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | ☑ | | | ☑ | | |
| Manchester Aquatic Centre | £ 2,807,487 | 505 | £ - | - | £ 2,807,487 | 505 | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | | | | | | | | | |
| National Cycling Centre | £ 5,755,030 | 600 | £ - | - | £ 5,755,030 | 600 | | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | | ☑ | | | | | | | | |
| Zion Arts Centre | £ 1,011,652 | 79 | £ - | - | £ 1,011,652 | 79 | | ☑ | ☑ | | | | | | | | | | | | | | |
| Hammerstone Rd Depot | £ 782,945 | 169 | £ - | - | £ 782,945 | 169 | | | ☑ | ☑ | | | | | | | | | | | | | |
| Heathfield Resource Centre | £ 55,936 | 5 | £ - | - | £ 55,936 | 5 | | | | | ☑ | | | | | | | | | | | | |
| Harpurhey District Office | £ 53,437 | 5 | £ - | - | £ 53,437 | 5 | | | | | ☑ | | | | | | | | | | | | |
| Longlight Library and Learning Centre | £ 55,693 | 5 | £ - | - | £ 55,693 | 5 | | | | | ☑ | | | | | | | | | | | | |
| Chorlton Sure Start | £ 23,518 | 2 | £ - | - | £ 23,518 | 2 | | | | | ☑ | | | | | | | | | | | | |
| Harpurhey District Office | £ - | - | £ 474,293 | 38 | £ 474,293 | 38 | | ☑ | ☑ | | ☑ | | | | ☑ | | | | ☑ | | | | |
| Active Lifestyle Centre | £ - | - | £ 282,752 | 29 | £ 282,752 | 29 | | ☑ | ☑ | | ☑ | | | | | | | | | | | | |
| Claremont Resource Centre | £ - | - | £ 384,977 | 43 | £ 384,977 | 43 | | ☑ | ☑ | | ☑ | | | | | | | | | | | | |
| Didsbury Library | £ - | - | £ 319,238 | 41 | £ 319,238 | 41 | | ☑ | ☑ | | ☑ | | | | ☑ | | | | | | | | |
| Hall Lane Resource Centre | £ - | - | £ 837,372 | 105 | £ 837,372 | 105 | | ☑ | ☑ | | ☑ | | | | | | | | | | | | |
| The Place at Platt Lane | £ - | - | £ 340,712 | 22 | £ 340,712 | 22 | | ☑ | ☑ | | ☑ | | | | ☑ | | | | ☑ | | | | |
| Airbeta | £ - | - | £ 1,833,588 | 216 | £ 1,833,588 | 216 | | ☑ | ☑ | | ☑ | | | | | | | | | | | ☑ | ☑ |
| National Football Museum | £ - | - | £ 1,429,582 | 188 | £ 1,429,582 | 188 | | ☑ | | | ☑ | | | | | | | | | | | | |
| Bridgewater Hall | £ - | - | £ 741,781 | 179 | £ 741,781 | 179 | | ☑ | | | ☑ | ☑ | | | | | | | | | | | |

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**Manchester City Council
Report for Information**

Report to: Environment and Climate Change Scrutiny Committee – 11
November 2021

Subject: Overview Report

Report of: Governance and Scrutiny Support Unit

Summary

This report provides the following information:

- Recommendations Monitor
- A summary of key decisions relating to the Committee's remit
- Items for Information
- Work Programme

Recommendation

The Committee is invited to discuss the information provided and agree any changes to the work programme that are necessary.

Wards Affected: All

Contact Officers:

Name: Lee Walker
Position: Scrutiny Support Officer
Telephone: 0161 234 3376
Email: lee.walker@manchester.gov.uk

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.

None

1. Monitoring Previous Recommendations

This section of the report lists recommendations made by the Environment and Climate Change Scrutiny Committee. Where applicable, responses to each will indicate whether the recommendation will be implemented, and if it will be, how this will be done.

| Date | Item | Recommendation | Response | Contact Officer |
|-----------------|---|--|---|--|
| 13 January 2021 | NESC/21/06 Monitoring and Compliance – Construction Sites | Recommend that Officers, in consultation with the Executive Member for Environment, Planning and Transport arrange a briefing session for Members of the Committee that provides an overview of a range of activities that included, but not restricted to planning and related enforcement; roles and responsibilities and Traffic Regulation Orders. | A response to this recommendation has been requested and will be reported back once received. | Julie Roscoe Director of Planning, Building Control and Licensing |
| 22 July 2021 | ECCSC/21/11 Climate Change Action Plan Quarterly Progress Report: Q1 April - June 2021 | That every school on a main arterial route with high volumes of traffic have a tree planting plan included as part of the tree strategy to promote clean air. | A response to this recommendation has been requested and will be reported back once received. | Julie Roscoe Director of Planning, Building Control and Licensing |
| 14 October 2021 | ECCSC/21/20 Waste, Recycling and Street Cleansing Update | The Committee recommend that the Executive Member for Housing and Employment discuss with all local housing providers the options for supporting their residents to increase their recycling. | A response to this recommendation has been requested and will be reported back once received. | Cllr White Executive Member for Housing & Employment |

| | | | | |
|-----------------|--|---|---|--|
| 14 October 2021 | ECCSC/21/21 Climate Change Action Plan Quarterly Progress Report, Q2 July - September 2021 | <p>1. The Executive Member for Environment give consideration to establishing a Climate Clock in the city, similar to that in Glasgow;</p> <p>2. The Executive Member for Environment and Officers arrange a briefing session for Members on the modelling that was used to agree and set the suite of targets reported in the Action Plan.</p> | A response to these recommendations has been requested and will be reported back once received. | Cllr Rawlins Executive Member for Environment |
|-----------------|--|---|---|--|

2. Key Decisions

The Council is required to publish details of key decisions that will be taken at least 28 days before the decision is due to be taken. Details of key decisions that are due to be taken are published on a monthly basis in the Register of Key Decisions.

A key decision, as defined in the Council's Constitution is an executive decision, which is likely:

- To result in the Council incurring expenditure which is, or the making of savings which are, significant having regard to the Council's budget for the service or function to which the decision relates, or
- To be significant in terms of its effects on communities living or working in an area comprising two or more wards in the area of the city.

The Council Constitution defines 'significant' as being expenditure or savings (including the loss of income or capital receipts) in excess of £500k, providing that is not more than 10% of the gross operating expenditure for any budget heading in the in the Council's Revenue Budget Book, and subject to other defined exceptions.

An extract of the most recent Register of Key Decisions, published on **1 November 2021**, containing details of the decisions under the Committee's remit is included overleaf. This is to keep members informed of what decisions are being taken and to agree, whether to include in the work programme of the Committee.

There are no Key Decisions currently listed within the remit of this Committee.

**Environment and Climate Change Scrutiny Committee
Work Programme – November 2021**

Thursday 11 November 2021, 10:00 am (Report deadline Monday 1 November 2021)

| Item | Purpose | Lead Executive Member | Lead Officer | Comments |
|---|--|--|---------------------|---|
| Initial Budget proposals 2022/23 | To receive a short update on the Council's budget position and process and any implications and draft proposals for any services in the remit of this committee | Cllr Craig Cllr Akbar Cllr Rawlins | Carol Culley | |
| Flood Management Strategy | To receive a report on the approach to flood management across the city, this report shall include: <ul style="list-style-type: none"> - How this is coordinated locally and how this is delivered with neighbouring authorities that impact on Manchester. - Flood Risk Management and Resilience. - Lessons learnt from previous recent events. - role of the Civil Contingencies Unit. - Information on the strategies and planning in relation to local reservoirs. | Cllr Rawlins | Fiona Sharkey | Representatives from the Environment Agency to be invited. Invitation to be sent to Cllr Simcock to speak on his visit to the Environment Agency Control Room. |
| Neighbourhood Working to address climate change | This report will provide information on how the Neighbourhood Teams are supporting local communities to deliver climate change. This will include an update on the In Our Nature programme pilot schemes; describing the approach and outcomes of partnership working and information on the delivery of active travel. | Cllr Rawlins | Shefali Kapoor | |
| Manchester City | To receive a report that describes the activities and | Cllr | Richard | |

| | | | | |
|---------------------------------|---|---------|------------|--|
| Council Estates Decarbonisation | progress to date on the decarbonisation of the Manchester Council Estate. | Rawlins | Munns | |
| Overview Report | This is a monthly report, which includes the recommendations monitor, relevant key decisions, the Committee's work programme and any items for information. | - | Lee Walker | |

Thursday 9 December 2021, 10:00 am (Report deadline Monday 29 November 2021)

| Item | Purpose | Lead Executive Member | Lead Officer | Comments |
|---|---|-----------------------|-----------------|--|
| Budget Report | To Be Confirmed. | | | |
| Manchester Airport | To receive a report that considers the actions taken to reduce carbon emissions at Manchester Airport and an update on the progress made to reduce aviation related carbon emissions. | Cllr Rawlins | David Houliston | |
| Grounds Maintenance and the use of pesticides | To receive an update report on the approach to the use of pesticides when delivering grounds maintenance. This report will also provide an update on any relevant information relating to the service that falls within the remit of this committee. | Cllr Akbar | Matthew Bennett | See 'Manchester's Park Strategy – Progress through the Pandemic' considered June 2021. |
| Overview Report | | | | |

Thursday 13 January 2022, 10:00 am (Report deadline Friday 31 December 2021)

| Item | Purpose | Lead Executive Member | Lead Officer | Comments |
|--|---|------------------------------|-------------------------------|-----------------|
| Budget Report | To Be Confirmed. | | | |
| Climate Change Action Plan - Quarterly Update report | To receive and comment upon the Manchester Climate Change Action Plan quarterly update report. | Cllr Rawlins | David Houlston Mark Duncan | |
| Food Sustainability | To receive a report that provides an update on the work undertaken to support communities around the area of food sustainability and to provide an update on the work of the Manchester Food Board. | Cllr Rawlins | Angela Harrington | |
| Overview Report | | | | |

Thursday 10 February 2022, 10:00 am (Report deadline Monday 31 January 2022)

| Item | Purpose | Lead Executive Member | Lead Officer | Comments |
|--|--|--|---------------------|-----------------|
| Budget proposals 2022/23 - update | Consideration of the final budget proposals that will go onto February Budget Executive and Scrutiny and March Council. | Cllr Craig Cllr Akbar Cllr Rawlins | Carol Culley | |
| Green and Blue Infrastructure Strategy | To receive an update report on the Green and Blue Infrastructure Strategy. This report will also provide an update on the implementation of the Manchester Tree Strategy. | Cllr Rawlins | Julie Roscoe | |

| | | | | |
|---|--|--------------|--|--|
| Manchester Climate Change Framework and Implementation Plan 2.0 | To receive and comment upon the Draft Manchester Climate Change Framework 2.0. | Cllr Rawlins | Manchester Climate Change Partnership and Agency | |
| Overview Report | | | | |

| Items to be scheduled | | | | |
|------------------------------|--|------------------------------|--------------------------------|-----------------|
| Item | Purpose | Lead Executive Member | Lead Officer | Comments |
| Local Energy Area Plan | <p>To receive a report that provides information on the Local Energy Area Plan.</p> <p>Local Area Energy Planning (LAEP) is a process which has the potential to inform, shape and enable key aspects of the transition to a net zero carbon energy system. Local Area Energy Planning was developed by Energy Systems Catapult.</p> | Cllr Rawlins | Marc Duncan David Houliston | |