

**Manchester City Council
Report for Information**

Report to: Neighbourhoods and Environment Scrutiny Committee –
31 January 2018

Subject: Manchester City Council Climate Change Action Plan Update

Report of: Deputy Chief Executive (Growth and Neighbourhoods)

Summary

The Manchester City Council Climate Change Action Plan (CCAP) 2016-20 was approved by the Neighbourhoods and Environment Scrutiny Committee in July 2016. Progress is monitored by an annual report and quarterly updates which provide emissions data and progress updates on the actions stated in the plan. An additional 6 monthly report was requested by the Committee which includes:

- An update on measures taken to reduce the carbon emissions of the buildings estate;
- Information on those buildings that are transferred from the Council's estate.

This report provides further information about the delivery of the Council's Carbon Reduction Plan, Carbon Literacy Training and the upcoming Greater Manchester Green Summit.

Recommendations

It is recommended that the Committee note the content of this report.

Wards Affected: All

Alignment to the Our Manchester Strategy Outcomes (if applicable)

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	
A highly skilled city: world class and home grown talent sustaining the city's economic success	

A progressive and equitable city: making a positive contribution by unlocking the potential of our communities	
A liveable and low carbon city: a destination of choice to live, visit, work	This report sets out the measures the Council is taking to reduce its direct CO2 emissions by 41% by 2020 from a 2009/10 baseline. The report also provides an update on the roll out of training to staff to support the behaviour change required to achieve the city's zero carbon ambitions, as well as an overview of the plans for a Greater Manchester Green Summit.
A connected city: world class infrastructure and connectivity to drive 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.

MCC Climate Change Action Plan 2016-20
MCC Climate Change Action Plan Update Report: Quarter 2
MCC Carbon Emissions Report: Quarter 2
Manchester City Council Climate Change Action Plan Update July 2017

1.0 Introduction

1.1 During the July 2016 meeting of the Neighbourhoods and Environment Scrutiny Committee, it was requested that officers produce an additional mid-year report to complement the existing annual Climate Change Action Plan (CCAP) Update. The first of these mid-year reports was produced in January 2017 and the most recent annual report covering the 2016/17 financial year was discussed at the July 2017 meeting during which the Committee requested that the next mid-year report included:

- An update on measures taken to reduce the carbon emissions of the Council's operational buildings estate;
- Information on those buildings that are transferred from the Council's estate.

1.2 This report also includes an update on the street lighting LED replacement programme, the Civic Quarter Heat Network, Carbon Literacy Training for Council staff and the upcoming Greater Manchester Green Summit.

2.0 Climate Change Action Plan Update

2.1 The data included in the annual emissions report is only available on an annual basis. As such, it is not possible to report this data on a half yearly basis, however, quarterly emissions and action update reports are published online using data which is available on a quarterly basis. The Quarter 2 2017/18 report was published in mid-November 2017 and can be found at the links below:

http://www.manchester.gov.uk/downloads/download/6097/manchester_carbon_reduction_report

http://www.manchester.gov.uk/downloads/download/6300/climate_change_action_plan_update_report

2.2 The Council aims to reduce its direct carbon emissions by 41% by 2020 from a 2009/10 baseline. In summer 2017 the Manchester City Council (MCC) CCAP Update report was published and showed that since 2009/10 the Council's direct CO2 emissions had fallen by 24.9%, putting the Council on track to achieve a 41% reduction by 2020. The scope of the CCAP includes only carbon emissions that the Council is directly responsible for such as our operational buildings estate, street lighting and some transport activities including business travel and the waste fleet.

2.3 In 2009/10 the majority of the Council's direct emissions came from our built estate (66%) followed by street lighting (22%). A smaller proportion is attributed to transport (9%) and traffic signalling (3%). Table 1 below provides the percentage change between Quarter 2 2016/17 and Quarter 2 2017/18. Emissions from the Council's Waste Fleet contract with Biffa is the only category which has seen an increase over this time period. This is largely due to additional refuse collections and increases in the number of street sweepers

being used within the contract. Biffa are responding to these issues and will be piloting one of the first electric refuse vehicles later this year.

- 2.4 It should be noted that some quarterly data is estimated and needs to be updated in the next quarterly report. An example of this is the MCC grey fleet data as not all mileage claims will have been made by the end of quarter.

Table 1: Emissions percentage change between Q2 2016/17 and Q2 2017/18

Emissions Category	Sub category	Percentage change (Q2 2017/18 compared to Q2 2016/17)
Buildings carbon tonnes CO2 and KWH	Carbon emissions	-4.5%
	Kilowatt hours	-1.9%
Transport Carbon (Tonnes CO2)	MCC fleet	-20.3%
	MCC grey fleet	-28.9%
	Waste collection fleet	+2%
	All modes	-6.6%
Total Carbon (Tonnes CO2)	Total Carbon emissions (tonnes)	-4.8%

Operational Buildings Estate

- 2.5 Emissions from the Council's operational buildings estate are calculated using the 'eDash' system. The Council has an extensive and complex property estate which is continually changing. The reporting system only includes those buildings where the Council pays for energy usage. There are therefore a number of buildings which were included in the original 2009/10 baseline which have been transferred out of the Council's ownership either via sale, lease or community asset transfer. Emissions from these buildings are not included in the latest emissions data as these are no longer classed as being part of the operational buildings estate. The rationalisation of the Council's operational buildings estate and the intensification of the remaining buildings is a key strand of the CCAP.
- 2.6 There are further complexities in relation to the shared use of a number of buildings within the wider public sector estate. For example, Council staff who work in NHS buildings are not accounted for within the reporting, whereas the impact of Greater Manchester Police and Health officers that are located within Council buildings cannot be easily isolated and is therefore included within MCC's carbon emissions.
- 2.7 The Carbon Reduction Programme is a 4-5 year programme of work which seeks to convert a £10 million capital investment into annual revenue savings of circa £1m and 5,000 tonnes of carbon savings. The work will focus on delivering carbon reduction measures within many of the Council's top 20 buildings in terms of direct carbon emissions. A wide range of technologies will be considered including new building controls, new lighting, new plant and solar photovoltaics. A summary of the different technologies being considered for each building is provided in Table 2 below.

Table 2: Summary of technologies being considered in buildings within the Carbon Reduction Programme

Building	CHP Engine	Heating	LED Lighting	Building Controls	Solar PV
Manchester Aquatics Centre	✓		✓	✓	✓
National Cycling Centre		✓	✓		✓
National Squash Centre		✓			✓
North City Leisure Centre	✓				✓
East Manchester Leisure			✓		
Hough End Leisure Centre					✓
New Smithfield Market			✓		✓
Wythenshawe Forum	✓		✓		✓
Arndale Indoor Market			✓		
National football Museum			✓		
Sharp					✓
Alexandra House		✓	✓	✓	
Hammerstone Road Depot					✓
Town Hall Extension Complex			✓		
Manchester Art Gallery				✓	

Nb. The table above is indicative and subject to change.

- 2.8 The Carbon Reduction Plan has also explored opportunities between existing carbon reduction projects within the city, where appropriate, such as: energy efficiency; energy production; energy storage; electric vehicles and charging. This work is in the early stages of planning but will be central if the Council is to successfully transition to a zero carbon organisation by 2050. It is proposed that a more detailed update on these innovative initiatives is included in the annual report in July 2018.

Civic quarter heat network

- 2.9 The installation of a heat network in the Civic Quarter connecting the Town Hall, Town Hall Extension, Central Library, Heron House, 1 St Peters Square, Manchester Central, the Bridgewater Hall and Manchester Art Gallery will reduce total emissions by 2,238 tonnes (3.1% of the 2009/10 baseline).
- 2.10 The Preferred Bidder for this project is Vital Energi, based in Blackburn, who were appointed in March 2017. The project is predicted to reach financial close by March 2018 with commencement of build in Quarter 2 2018 and start of operation during 2019/20. The project was one of nine projects nationally awarded capital funding via the HNIP, via a grant of £2.87m.

Street lighting

- 2.11 A major element of the CCAP 2016-2020 is the replacement of all Manchester street lights with LEDs which will reduce total carbon emissions by 8,400 tonnes (11.7% of the 2009/10 baseline). Between September 2017 and August 2020, the project will retrofit approximately 56,000 existing street lighting lanterns throughout the city through a variation to the existing Private

Finance Initiative (PFI) contract with Amey Highways Lighting (Manchester) Limited.

- 2.12 The contract was signed during August 2017 and 8,373 LED street lights have been installed to date since installation began on 18th September 2017. The new LED units will improve the overall efficiency and quality of the street lighting across the city and once the three year programme is complete, electricity usage on street lighting will be reduced by over 18.1m kWh per year.

3.0 Carbon Literacy Training

- 3.1 A full review of the 970 plus staff who were trained in 2013/14 has now been completed. From this list there are only 514 people who are still employed by the organisation. A survey was sent to 463 of these members of staff and 113 responses were completed (response rate of 24%). A summary of the results is provided below:

- 76.8% felt the course raised their awareness of climate change;
- 69% have been motivated to reduce their Carbon footprint;
- 48.2% felt motivated to keep up to date with information about climate change;
- 70.9% felt the knowledge learnt on the course is still relevant;
- 57.9% have found the training useful in their new role.

- 3.2 The survey also asked for examples of the changes staff had made to their daily lives at home or work. The main examples that were given included:

- Recycle more;
- Drive less, walk more and use public transport;
- Eat less meat;
- Use reusable bottles;
- Make changes in the home and at work to include energy saving light bulbs, turning monitors off, insulating their home, better disposal of waste food and products such as batteries, print less.

- 3.3 The Council remains committed to developing a high quality training offer to support staff and elected members to become carbon literate. The next phase of staff training will be targeted at the approximately 600 members of staff people including apprentices and those who have been on, or are going on, the Our Manchester Leadership Programme and Raising the Bar. An open offer will also be developed via the Intranet for those staff who are interested in attending. The Council's elected members and Strategic Management Team will also be invited to attend this new training programme.

- 3.4 In order for the Council to obtain Silver accreditation with the Carbon Literacy Project, 15% of staff need to be Carbon Literate. The Council currently has a headcount of just over 7,000 which means another 536 members of staff would need to be trained to reach the required target of 1,050 members of staff.

- 3.5 A procurement process is currently underway and a number of training providers have submitted proposals which are being scored by officers from Learning and Events, and Policy, Partnerships and Research. The format of the training will be a full day of training which will incorporate the viewing of a documentary film (Before the Flood), a follow on discussion and then an afternoon of workshops and face-to-face training. Up to 100 staff will be able to attend each session which will include a mass viewing of the documentary and then smaller groups for the discussion and training elements.
- 3.6 The Council's Communications Team have been asked to come up with an appropriate name and branding for the training. It will sit within the wider branding for the Our Manchester Strategy and will link back to the 'Liveable and Low Carbon' theme. There is also an opportunity to use some of the Our Manchester Strategy comments from residents within the training material and also the recent videos from the Climate Change and Air Quality conversations in the city. The training sessions will start during March 2018.

4.0 Green Summit and Manchester Based Events

- 4.1 The Mayor of Greater Manchester, Andy Burnham, will be holding a Mayor's Green Summit on 21st March 2018. The Summit seeks to bring together a broad range of people from across Greater Manchester who are affected by, or are interested in environmental issues. The ambition is for all areas of society to contribute to a discussion about how they can contribute to the region's plans to accelerate the ambition to become 'carbon neutral' prior to 2050. The existing target for Greater Manchester is to cut emissions by 48 per cent by 2020 from 1990 levels and to reach 'carbon neutrality' by 2050. This is a challenging target, but the latest scientific facts show that there is a need to go even further if we want clean air, healthier people, better public transport and greener neighbourhoods across Greater Manchester.
- 4.2 Members of the public and businesses will be able to contribute views and ideas through an "extensive public engagement process" that will take in energy for homes and workplaces, sustainable travel, air quality, green spaces and low carbon technology.
- 4.3 In Manchester, The Manchester Climate Change Youth Board are keen to express their views and alongside other youth organisations in the city will be contributing to the Green Summit. A Manchester specific event for young people to discuss issues and solutions was held on 17th January 2018. This event, alongside the establishment of the Manchester Climate Change Youth Board, are central to ensuring that young people from the city are able to influence this agenda. The questions at the event on 17th January focussed on:
1. What kind of city would you like to live in in the future?
 2. What do you find easiest/hardest about being environmentally friendly in Manchester?

- 4.4 A number of other events are also being held in Manchester during the next two months. The 'Our Faith, Our Planet' network are planning to hold a listening event in February or March 2018 which will be held at Manchester Cathedral with support from the Carbon Literacy Project and Manchester Climate Change Agency. Manchester Arts Sustainability Team are also planning a listening event involving their members and other organisations associated with the arts on the 25th January. The question in focus will be 'What is the role for Arts and Culture in the journey towards a zero carbon Manchester?'.

5.0 Recommendations

- 5.1 It is recommended that the Committee consider and comment on the information provided in this mid-year report.