The University of Manchester has pledged to support Manchester’s climate change target for zero carbon by 2023.

**Commitment**

The University of Manchester believes that Manchester should stay within a science-based carbon budget that is aligned with the Paris Agreement and set 2038 as the target date to become a zero carbon city. The University of Manchester believes that all organisations and residents in Manchester need to be part of a collective effort to meet our targets and commits to contribute by:

- Acting now, including accelerating our existing decarbonisation activities, wherever possible.
- Taking responsibility for the CO₂ emissions from our business activities and working to reduce them to zero by 2038.
- Supporting and influencing others to take action.
- Defining the support we need and proactively asking for it, including asking politicians for policy changes wherever relevant.

**Carbon management at The University of Manchester: Progress to 2020 target**

The University has a carbon reduction target to reduce Scope 1 and 2 carbon emissions by 40% by 2020, from a 2007/08 baseline year (from 80,550tCO₂ to 48,3330tCO₂). Since 2007/08 Scope 1 and 2 carbon emissions have reduced by 33%:

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas</th>
<th>Electricity</th>
<th>Oil</th>
<th>Fleet Vehicles*</th>
<th>Total</th>
<th>% change on baseline</th>
<th>% change on previous year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007/08</td>
<td>26,442</td>
<td>53,496</td>
<td>272</td>
<td>340</td>
<td>80,550</td>
<td>-2.1</td>
<td>-2.1</td>
</tr>
<tr>
<td>2008/09</td>
<td>26,698</td>
<td>51,563</td>
<td>178</td>
<td>398</td>
<td>78,837</td>
<td>1.4</td>
<td>3.6</td>
</tr>
<tr>
<td>2009/10</td>
<td>28,654</td>
<td>52,171</td>
<td>497</td>
<td>344</td>
<td>81,666</td>
<td>-3.1</td>
<td>-4.4</td>
</tr>
<tr>
<td>2010/11</td>
<td>29,712</td>
<td>47,826</td>
<td>185</td>
<td>336</td>
<td>78,859</td>
<td>-6.4</td>
<td>-3.5</td>
</tr>
<tr>
<td>2011/12</td>
<td>27,177</td>
<td>47,586</td>
<td>246</td>
<td>355</td>
<td>75,364</td>
<td>-3.9</td>
<td>-10.6</td>
</tr>
<tr>
<td>2012/13</td>
<td>29,272</td>
<td>46,754</td>
<td>621</td>
<td>333</td>
<td>77,435</td>
<td>-10.6</td>
<td>-8.5</td>
</tr>
<tr>
<td>2013/14</td>
<td>25,851</td>
<td>45,796</td>
<td>142</td>
<td>205</td>
<td>71,994</td>
<td>-6.4</td>
<td>-16.3</td>
</tr>
<tr>
<td>2014/15</td>
<td>26,467</td>
<td>46,898</td>
<td>170</td>
<td>197</td>
<td>73,732</td>
<td>-3.5</td>
<td>-25</td>
</tr>
<tr>
<td>2015/16</td>
<td>24,951</td>
<td>42,126</td>
<td>189</td>
<td>146</td>
<td>67,438</td>
<td>-8.5</td>
<td>-10.7</td>
</tr>
<tr>
<td>2016/17</td>
<td>24,279</td>
<td>35,610</td>
<td>197</td>
<td>139</td>
<td>60,232</td>
<td>-10.6</td>
<td>-33</td>
</tr>
<tr>
<td>2017/18</td>
<td>24,998</td>
<td>28,471</td>
<td>228</td>
<td></td>
<td>53,836</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Work to draft a new Carbon Management Implementation Programme commenced in 2016, focusing on initiatives and interventions to reduce carbon. Energy audits of 110 University buildings proposed a number of Energy Conservation Measures (ECM). Further research and activities proposed a behavioural change programme. The implementation of ECM presented an opportunity to reduce carbon by ~40+% by 2028 (from a 2015/16 baseline); the behavioural change programme is estimated to deliver annual carbon savings of 1,140tCO₂. The ECMs and carbon management behavioural change programme are not currently funded.

This carbon work has initially focused on Scope 1 and 2 emissions, however, non-carbon targets for Scope 3 activities, including commuting and purchasing, were confirmed and approved in 2015 as part of the Sustainable Resources Plan and Living Campus Plan (some of which are referenced in this paper).
Next steps: Actions to reduce the CO\textsubscript{2} emissions between April 2019 and March 2020

- Convene the ‘Carbon Action Group’ to act as an influencer for higher level responsibility groups and help achieve the objectives, targets and goals that the University has signed up to.
- Deliver agreed Revolving Green Fund (RGF) energy efficiency/carbon reduction projects.
- Develop action plans to progress Energy Conservation Measures (ECMs), carbon reduction projects and the behavioural change programme.
- Apply the campus carbon calculator to evaluate carbon impacts of diverse interventions and building stock scenarios.
- Work with our 400+ registered Sustainability Champions, Energy Champions, Lab Sustainability groups and 80+ Green Impact Teams to support behavioural change initiatives targeted to improve environmental performance.
- Work with our designated Environmental Sustainability Advisors to support the delivery of environmental sustainability targets across design, construction and post-occupancy.
- Develop actions to support the University target to reduce business air travel by 12% from 2014/15 baseline (83million km).
- Deliver infrastructure and initiatives to support an active travel programme, including installing an additional 100 cycle spaces to support targets to increase staff active travel by 3% (from 22%, 2014/15) and student active travel by 2% (from 37%, 2014/15).
- Plant semi-mature trees on campus (~30+), building on the 100+ planted during 2018.
- Build action plans to support the University’s commitment to eliminate avoidable single use plastics by 2022 (in support of the Greater Manchester Mayor’s pledge).
- Continue to move our fleet vehicles to electric cars and purchase an electric cargo bike.
- Agree KPIs for climate change in support of the University strategy.
- Maintain Level 5 of the flexible framework, leading in sustainable procurement across the sector.
- Specifying social value. Developing target operating measures for the sector.
- Initiatives for host-sharing within the N8 Research Partnership (a not-for-profit organisation funded by the member universities, to promote efficiency, collaboration and innovation).

Next steps: Actions to influence or support our stakeholders to reduce their CO\textsubscript{2} emissions between April 2019 and March 2020

- Launch improved software for our staff sustainability engagement programme, 10,000 Actions, alongside a comprehensive communications plan.
- Deliver the Sustainability Challenge to all 8,000 first year undergraduates.
- Provide a programme of resilience and influencing training to our Sustainability Champions, Living Campus Champions and Energy Champions. Work with our Champions to run energy engagement programmes; monitoring the effectiveness of this through research which will inform future engagement programmes.
- Work with our Communications and Marketing Team to improve the impact of environmental sustainability messaging, both internally and externally.
- Setting on site consumption targets for contractors to reduce on site electricity, gas, water, red diesel and waste.
- Encouraging our supply chain to use our supplier engagement tool to reduce emissions from procurement.