



Manchester
Metropolitan
University

Environmental Sustainability Statement 2017-18

Manchester Met supports the UN Sustainable Development Goals

Let's make a
sustainable planet

About Manchester Metropolitan University

Manchester Metropolitan University (Manchester Met) is one of the largest campus-based Higher Education providers in the UK with over 38,000 students and 4,800 staff, based in Manchester.

The University is led by three main bodies that are crucial to governance and decision-making: the Board of Governors, Academic Board and the University Executive Group.

Manchester Met has six faculties, 13 research centres across key disciplines, and a range of departments, schools and professional services that support the work of the University.

We offer over 900 undergraduate and postgraduate courses and professional qualifications to a diverse student body, attracting students from across the UK, Europe and international communities. Currently, there are students from approximately 130 countries studying at Manchester Met.

We pride ourselves on training the future talent of the region, with more than 50% of our graduates staying and working in the North West.

We are a great, modern university, in a great global city. We have a driving ambition to discover and disseminate knowledge, to make higher education accessible and beneficial to all those with the passion and ability to succeed.

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University Core Strategies and Themes

Manchester Met has three core strategies to ensure that we deliver on our promise to transform lives and make impact on a global scale. These are Education, Research and Knowledge Exchange, and Internationalisation. Five strategic themes form the backdrop for our plans and strategies, setting the tone for our approach. These are: place, ambition, partnership, sustainability and community.



We are a leading, award-winning University for sustainability.

In 2014, we launched our Environmental Strategy, which sets out our 2020-21 vision to embed sustainable development in all that we do at Manchester Met.

Our Environmental Sustainability Statement covers our progress towards the objectives and targets set out in the Environmental Sustainability Strategy mapped against the UN Sustainable Development Goals (SDGs).

It is prepared in accordance with the Global Reporting Initiative (GRI) Sustainability Reporting Standards.

Read on to find out more about progress towards our goals and supporting activities.

Statement from the Vice-Chancellor



Welcome to our 2017-18 Environmental Sustainability Statement, which sets out our achievements on delivering a sustainable campus and curriculum this academic year.

We are proud to have been placed first in the People & Planet University League in 2017, making us the greenest university in the UK. This independently assessed ranking is evidence of the hard work that all our colleagues and stakeholders commit to sustainable development, embedding it into all that we do.

To maintain our position at the forefront of positive change, in 2017-18 we reviewed our Environmental Sustainability Strategy and implemented more challenging targets for sustainable transport. We are continuously stretching ourselves to create new ways of embedding sustainability. For example, the EU-funded Triangulum project helped deliver the installation of solar photovoltaic panels and innovative lithium-ion battery technology to support the provision of low-carbon energy to our Birley Campus.

We are extremely proud to have launched the Manchester Fuel Cell Innovation Centre, supported by the European Regional Development Fund. World-leading academics at the research centre will work with local small businesses and industry to develop future-proof alternatives to fossil fuels.

Our 'Give It Don't Bin It' campaign received four awards in 2017-18, recognising the fantastic benefits for the local community and the environment realised through enabling increased reuse of student belongings at the end of the year.

This year we have continued to improve our estates operations to reduce energy, improve recycling rates, and support staff and students to move to sustainable transport options. 2018 has also been critical in gaining momentum of public awareness of a key environmental issue: the damage caused by single-use plastics. We have already moved away from single use cutlery and straws in our retail operations and will be providing more drinking water fountains across campus to reduce reliance on single-use plastic bottles.

We are continuing our important work to equip our students with the skills and knowledge to take environmental and social sustainability thinking into their future employment. This helps not only to embed sustainability awareness in business but also enhances the employability prospects of our students. Our maintained NUS Responsible Futures certification demonstrates our commitment to continue ensuring sustainable thinking and Carbon Literacy throughout the formal and informal curriculum.

I would like to thank students, staff, alumni and stakeholders, all of whom contribute to the sustainability of Manchester Metropolitan. The progress made by the University would not be possible without this continued support, dedication and accountability.

**Vice-Chancellor,
Professor Malcolm Press**

People & Planet University League

An independently assessed UK university league ranking sustainability and ethical performance



Sustainable Development Goals

In this year's report, we are again indicating which of the 17 United Nations Sustainable Development Goals (SDGs) each of our policy areas contribute to.

The SDGs are the world's agenda for sustainable development. Their success is dependent on the contributions and collaborative efforts by everyone, including the Higher Education sector.

As a university, we are in a unique position to influence societal changes by empowering and equipping our students – the future business leaders, decision-makers, and the people able to affect change – with the knowledge and skills that will contribute towards achieving the SDGs and global sustainable development beyond 2030.

SUSTAINABLE DEVELOPMENT GOALS



Our performance

This year we have performed well in most areas, and are on track to meet nearly all of the targets set out in our Environmental Sustainability Strategy 2020-21.

Our performance is summarised across all of our policy areas shown as Achieved, On track, Behind, or Not achieved. Progress for each individual target is described throughout this statement.



*Figures have been rounded up to equal 100%



Refer to the relevant sections in this report for further information.

Learning for a sustainable future

Woodland maintenance session with Hulme Community Garden Centre at Birley

Learning for a Sustainable Future



Sustainable development depends upon society possessing the knowledge and skills, as well as the understanding and motivation, to act on sustainable development issues and challenges.

At Manchester Met, we are in a position to deliver Education for Sustainable Development (ESD) through Faculty curricula and our wider engagement activities. Doing this equips our students and staff with the relevant knowledge to respond to future challenges, both in their personal and professional lives.

Learning for a Sustainable Future consists of activities in the formal and informal curriculum, our research, and our professional development.

Aim:

Support staff and students in gaining the knowledge, skills and attributes needed for sustainable development.

Achievements:

Manchester Met Business School is an **Advanced Signatory of Principles** for Responsible Management Education.

Awarded two scholarships for teaching and learning grants relating to Education for Sustainable Development.

Our Students' Union was the **first Carbon Literate students' union** in the world.

Manchester Fuel Cell Innovation Centre opened.

NUS Responsible Futures accreditation maintained.



Skills and knowledge

On track

Objective and target: Deliver, embed and enhance activities that develop knowledge, skills and attributes for sustainable development amongst students.

By 2020-21, 80% of students perceive they are gaining skills and knowledge to help understand sustainable development issues.



Progress: Although we are slightly behind our target trajectory for 2017-18, we are on track to meet our longer-term target for 2020-21. We are continuing to develop activities with and for our students to engage them with the topic of sustainability.

2017-18 highlights:

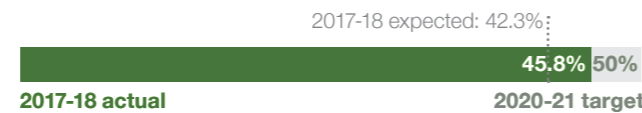
- We delivered and participated in sustainable behaviour programmes and campaigns including MetMUnch events, clothes swaps, Carbon Literacy, Manchester Recycle Week and Go Green Week.
- We maintained our Responsible Futures accreditation, demonstrating that we are embedding sustainability into our curricula.
- The Sustainability, Ethical and Enterprise Group hosted events promoting Education for Sustainable Development to our academics.
- We continued to co-ordinate the Inter University Sustainable Development Research Programme network.
- 259 students were certified carbon literate.
- 9 student trainers were trained in 2017-18.
- We continued to invest £70,000 per annum to our Environmental Education Fund. In 2017-18, it was invested in our Carbon Literacy programme.

Staff development

On track

Objective and target: Support professional development opportunities that equip staff with the knowledge and skills to embed Education for Sustainable Development, and support the sustainability commitments of the University.

By 2020-21, at least 50% of academic and professional staff are receiving professional development opportunities that increase awareness and understanding of environmental sustainability.



Progress: 45.8% of academic staff believe that Manchester Met has provided professional development opportunities that increase their awareness and/or understanding of environmental sustainability.¹

Sustainability action and communication

Achieved

Objective and target: Deliver effective communications that support knowledge, skills and attributes for sustainable development and promote our reputation as a leading sustainable university.

By 2020-21, 80% of staff and 80% of students agree or strongly agree that Manchester Met is an environmentally sustainable university.



Progress: This year's staff perception score is an increase from 75.8% in 2016/17. Staff perception is collected through a bi-annual online travel and sustainability survey. Student perception is obtained via an annual online enrolment survey.

We use our campus as a learning resource for our students through regular tours of our Birley Campus. This showcases sustainable woodland, orchard, wildflower and wetland areas.



¹ The results from our bi-annual Staff Survey are used to determine receipt of professional development opportunities. Our measure is of the percentage of staff that agree or strongly agree with the statement: "Manchester Met has provided professional development opportunities that increase my awareness and/or understanding of environmental sustainability."

Case study: Manchester Fuel Cell Innovation Centre

Opened in September 2018, Manchester Fuel Cell Innovation Centre is our landmark £4.1m technology hub leading the way in harnessing renewable energy.

The Centre works to shape energy policy, collaborating with Metropolis, Greater Manchester Combined Authority and industry stakeholders to accelerate policy development for hydrogen and fuel cells, and drive the impact of academic research on regional, national and international levels. Current estimates indicate reserves of coal and gas will be depleted by 2088, which makes the Centre's work developing the hydrogen and fuel cell technologies, and the surrounding ecosystem, timely and significant.

Our experts draw on the knowledge of well-established research groups and have a range of research specialisms including:

- Using electrochemistry to produce energy storage.
- Combining electrolysis and fuel technology with 3D printing.
- Battery technologies and surface engineering.

We support companies in developing cutting-edge fuel cells, fuel cell materials and related technology to create green and emission free energy. Small-to-medium sized enterprises (SMEs) can access the Centre's facilities free of charge, including workshops for business covering areas such as marketing opportunities for hydrogen and fuel cell technologies, rapid innovation techniques, prototyping and 3D printing.

Outside Manchester, the Centre leads HySchool, an Erasmus+ project that delivers hydrogen education in schools. Working in consortium with Manchester Metropolitan University's Business School and seven other partners from across Europe, HySchool develops and delivers an educational programme with resources for secondary schools.

Find out more information about Manchester Fuel Cell Innovation Centre on our website: <https://www2.mmu.ac.uk/fuel-cell/>

The Centre works with school children and education providers to raise awareness of green energy issues, introducing them to hydrogen and fuel cell technology.



Estates and operations

The Business School rated
BREEAM 'Excellent'

Biodiversity and growing systems



The conservation of biodiversity is of global importance for many ecological, social and economic reasons. Biodiversity and green space are important to the health of our planet, and for the health and wellbeing of our communities. Our contribution to preserving and enhancing biodiversity and green spaces, particularly in densely populated urban areas such as Manchester, is vital.

Aim:

Protect and enhance biodiversity across the University and promote its benefits for students, staff and local communities.

Achievements:

8 engagement events to promote Manchester Met's green infrastructure.

96 species identified across our campuses.*

13 habitats identified across our campuses.*

72 physical connections between habitats identified.*



* Data collected through surveys undertaken in May 2017.

Habitats and species

On track

Objective and target: Undertake university-wide biodiversity audits to monitor priority habitats and species and inform the development of appropriate management, maintenance and conservation plans, with the aim to measure and maintain habitat and species diversity across our campuses.

Progress: 96 species and 13 habitats identified during our most recent monitoring survey.

Our reported statistics this year have been taken from our biennial biodiversity monitoring surveys undertaken in May 2017. We are currently reviewing our monitoring methodology and processes to ensure our biodiversity reporting:

- reflects current best practice;
- demonstrates year-on-year changes in Key Performance Indicators for biodiversity; and
- is simple enough to enable students and communities to engage with the University's monitoring regime.

Biodiversity engagement

Not achieved

Objective and target: Evaluate and promote the multifunctional benefits from the University's green infrastructure by measuring and increasing engagement opportunities.

Progress: 8 engagement events delivered with staff, students and the community.

This year, we delivered fewer events than in 2016/17, meaning that we have fallen short of our target. This is because last year's figure included BioBlitz biennial survey events, which we did not undertake in 2017-18. However, we provided opportunities for staff, students and community engagement including:

- 6 woodland workshops.
- 2 orchard workshops.

Habitat connectivity

On track

Objective and target: Promote the use of university buildings to enhance habitat connections within and between campuses.

We monitored our performance through a survey of the number of physical connections between habitats, which was 72 in 2017. All habitat connections were maintained in 2017-18.

Manchester Met has recently joined the City of Trees initiative. This partnership approach to developing green space across the city will ensure that biodiversity on our Manchester campus is linked to our neighbours, creating green corridors throughout the city.

Manchester Met Estates Masterplan Investment Programme (2017-2027), includes the University Biodiversity Management Group as a key advisory group in the development programme. The group provides advice and guidance for estates development projects and also inputs to the Manchester: A Certain Future Green Infrastructure Sub Group.

Carbon and energy management



Energy consumption is a major contributor to climate change. How we conduct and manage our business activities directly affects our energy consumption, and, in turn, our organisational direct and indirect carbon emissions.

To achieve our carbon and energy targets, and to contribute towards wider UK and global emissions reduction targets, we have undertaken many projects to improve energy efficiency and reduce our carbon emissions.

Aim:

Reduce operational energy consumption in line with our energy targets and reduce carbon emissions in line with our carbon targets.

Achievements:

41.6% reduction in emissions since the 2005-06 baseline year against a target of 50% by 2020-21.

179 tonnes of CO₂e, and £50,546 will be saved annually from six significant energy efficiency projects delivered in 2017-18.



Carbon emissions

On track

Objective and target: Reduce Scope 1 and 2 carbon emissions by 50% by 2020-21 from a 2005-06 baseline.



Progress: Across the year, Manchester Met invested £250,000 in six energy efficiency projects:

- LED Lighting upgrades in Chatham and Grosvenor building.
- 700 light fittings across the All Saints Library replaced with energy-efficiency LED alternatives. The new fittings require 66% less electricity than the old fluorescent luminaires.
- Lighting control upgrade at John Dalton East building.
- Lighting sensor upgrades at Geoffrey Manton building.
- Building Management System upgrades at Geoffrey Manton building.
- Solar photovoltaic panels installed on our Brooks building.

This financial investment of £250,000 is projected to generate annual savings of 179 tonnes of CO₂e, and save an estimated £50,546 on our energy bills each year.

As part of the Triangulum project, funded by the European Union, the University has fitted solar photovoltaic panels and a Siemens Lithium-Ion (Li-Ion) battery at the Birley Campus. For more information see case study on page 28.

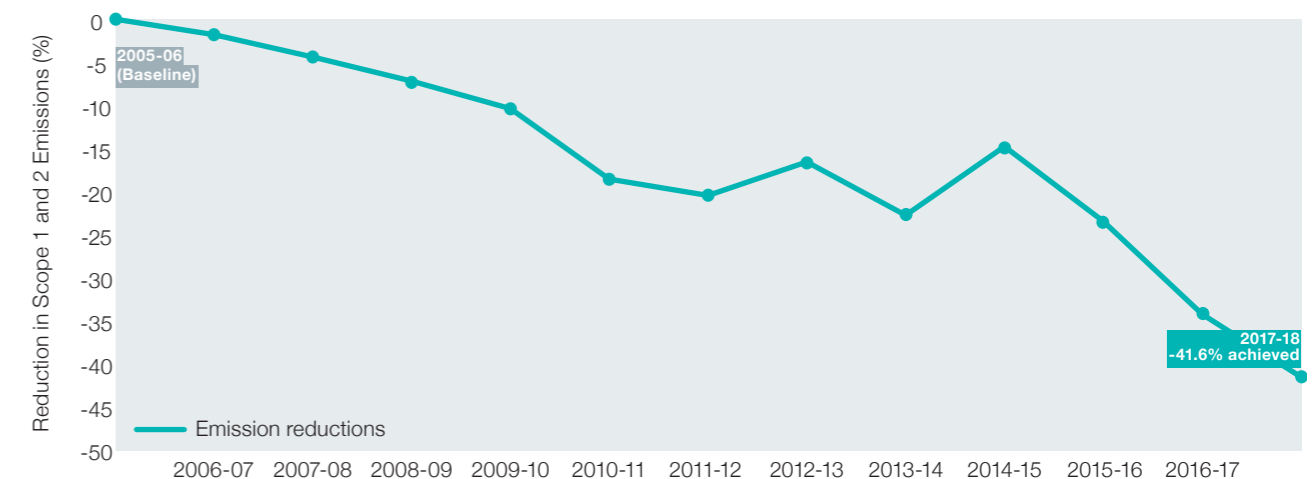
We continue to implement planned energy efficiency investment projects, campus-wide energy saving initiatives, and further investment into on-site low and renewable energy generation to support the achievement of our 2020-21 energy and carbon emission reduction targets set out in our Environmental Strategy.

The national electricity grid is moving towards a greater proportion of renewables such as wind and solar power, and becoming less reliant on fossil fuels such as coal. This change is reducing carbon emissions generated by production of electricity that we buy from the grid, supporting our progress towards this target.

We purchase our electricity through a green tariff, backed by Renewable Energy, supporting the transition to a greener UK energy supply.

For further information about how we calculate our carbon emissions, please see page 62.

Carbon emissions reduction: tracking our progress (Scope 1 and 2 emissions)



1 CO₂e = Carbon Dioxide (CO₂) Equivalent; our carbon emissions include other greenhouse gas emissions expressed in terms their global warming potential relative to CO₂.
 Scope 1 = Direct emissions from our owned or controlled sources (such as from our boilers).
 Scope 2 = Indirect emissions from the generation of the electricity we purchase.
 Scope 3 = Indirect emissions from our value chain (e.g. staff and student travel and disposal of waste).

Indirect emissions

Achieved

Objective and target: Measure and report our Scope 3 (indirect) emissions.

Progress: We have established baseline years and targets for our Scope 3 emissions by source – outlined in the University Scope 3 emissions report – and provide a breakdown of our progress in the Scope 3 carbon emissions dashboard (please see the appendices for further information).

Where our emissions come from

Our total emissions (Scope 1,2,3) in 2017-18

74,199 tonnes

Direct Scope 1 and 2 emissions in 2017-18 were 12,957 tonnes CO₂e, accounting for 17.5% of total carbon emissions.

Fleet vehicles (Scope 1)

24.4 tonnes

Gas consumption (Scope 1)

5,091 tonnes

Electricity consumption (Scope 2)

7,766 tonnes

Fugitive emissions* (Scope 1)

76 tonnes

Renewable and low carbon energy

Since 2013, the proportion of electricity consumption met through renewable and low carbon on-site generation has increased.

0.8%
2013-14

3.8%
2017-18

Indirect Scope 3 emissions in 2017-18 were 61,242 tonnes CO₂e, accounting for 82.5% of total carbon emissions.

Employee commuting

2,044 tonnes

Student commuting

10,667 tonnes

Purchased goods and services

36,747 tonnes

Business travel

1,638 tonnes

Student travel home

5,330 tonnes

Transmission and distribution of electricity

1,987 tonnes

Waste disposal

43 tonnes

Water

167 tonnes

Leased assets and franchises

2,619 tonnes

*Fugitive emissions are on-site leaks of gas, such as refrigerants from our air conditioning systems.

Energy use: gas

On track

Objective and target: Reduce gas consumption by 50% by 2020-21 from a 2005-06 baseline.



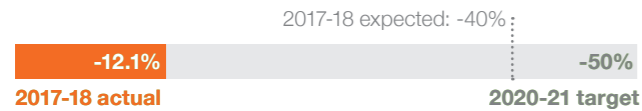
Progress: Although we are slightly behind our target trajectory for 2017-18 we are on track to meet our longer-term target for 2020-21. We have already made upgrades to inefficient boilers and improved building management systems. To support progress towards this target in 2018-19 we plan to:

- Implement an estate-wide Thermal Comfort Policy.
- Replace our oldest, least efficient boilers with newer, more efficient boilers.
- Improve heating controls in student halls and academic buildings.

Energy use: electricity

Behind

Objective and target: Reduce electricity consumption by 50% by 2020-21 from a 2005-06 baseline.



Progress: Unfortunately, this year we are not making enough progress to meet our challenging 2020-21 target.

As we are growing in size as a university, achieving this target is challenging. Electricity use this year has also increased, in part due to technical issues with our combined heat and power unit at Birley, which has increased our reliance on the national electricity grid.

We are also moving towards building systems that use electricity because the carbon intensity (the amount of CO₂e per kWh) of electricity from the national grid is decreasing.

Despite this, we continue to implement electricity saving campaigns. In 2017-18 we replaced two minus 80 degree freezers with modern low-energy alternatives. The new freezers use 60% less electricity than the old units. We are working to achieve a further reduction in consumption in our labs by running an equipment switch off campaign.

We have recently commissioned energy audits in every Manchester Met building to identify the best interventions to reduce electricity consumption going forward.

Building energy efficiency

Achieved

Objective and target: Improve Display Energy Certificate (DEC) rating of University buildings, achieving an average 'C' rating or above.

Progress: In 2017-18 we've maintained an average rating for Manchester Met buildings at 'C' or above. Improvement projects include LED lighting replacements, the installation of new highly efficient boilers in three of our buildings, improving building management control systems, and replacing energy intensive and inefficient laboratory equipment with newer, more efficient equipment.

Energy consumption and intensity

Energy consumption is calculated using information provided by the University's energy suppliers, and is verified against the University's own monitoring systems.

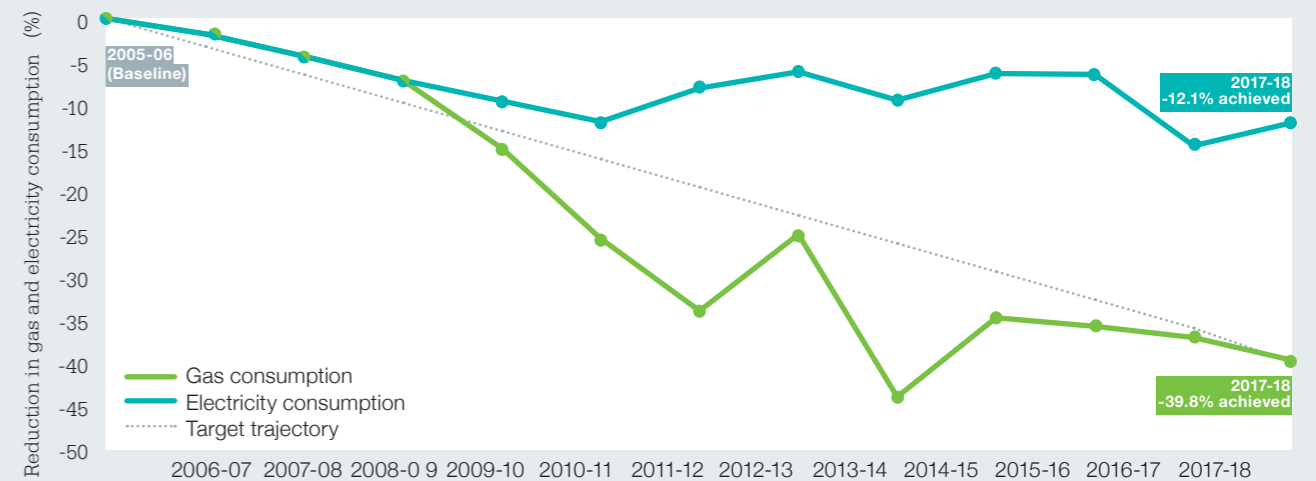
The baseline year of 2005-06 for energy consumption and intensity is aligned to the Higher Education Funding Council for England's (HEFCE) target. Our carbon reduction target is a 50% reduction by 2020-21 – a higher figure than the 43% target for the Higher Education sector overall.

Our energy intensity is decreasing per m² of building area and per number of student and staff at the University. This demonstrates we are using energy more efficiently across our estate.

Energy emissions intensity data is calculated based on two different factors:

- energy (kWh) per full time equivalent (FTE¹) student and staff member; and
- energy (kWh) per m² (gross internal area) for the University's owned estate.

Percentage reduction in gas and electricity consumption



Gas and electricity consumption and energy intensity rates

	2015-16	2016-17	2017-18
Electricity consumption renewable (kWh)	198,513	186,184	308,911
Electricity consumption non-renewable (kWh)	26,483,218	24,129,388	24,776,925
Total gas consumption (kWh)	29,472,918	28,889,776	27,665,459
Total electricity consumption (kWh)	26,681,731	24,315,572	25,085,836
Energy intensity (gas and electricity) per FTE (kWh/FTE)	1,856	1,734	1,675
Energy intensity (gas and electricity) per m ² (kWh/m ²)	204	194	193

¹ FTE: Full Time Equivalent staff members and students.

We've achieved a 39.8% reduction in gas consumption and are on track to achieve our 2020-21 target.



Case study: Triangulum

Manchester Met is participating in Triangulum, a five-year project funded by the European Commission to demonstrate the possibilities of using technology to cut carbon emissions. Manchester, Eindhoven and Stavanger are all taking part in the scheme, which runs until 2020.

The Triangulum project sees Manchester Met working with the University of Manchester (UoM), Manchester City Council, Siemens and other partners. This project will deliver significant energy savings, while demonstrating the power of the new innovations to help create economic growth.

Triangulum brings together academics and the Estates Department at Manchester Met using the Oxford Road Corridor district as a demonstrator 'Smart City'. This will be achieved by harnessing information and communication technology (ICT), distributing renewable energy resources, battery energy storage system trials and deploying electric vehicles (EVs) to study green mobility and sustainable energy management.

Manchester Met added two 30kW electric cars to our pool car scheme, and two electric vehicle charging points – allowing more staff to use low-carbon transport options for business journeys and leave their own car at home.

We also installed 580 solar panels on the roof of our Brooks building. These are linked to a new on-campus Siemens lithium-ion (Li-Ion) battery controlled by an intelligent central system to store electricity and reduce reliance on more expensive energy used at peak times.

The battery is controlled by Siemens Microgrid technology to actively manage and improve energy storage on campus. The battery will be primarily charged with electricity overnight when there is reduced demand, providing cheaper and greener power. The battery has a 516 kWh storage capacity – equivalent to around 50% of the Birley Campus peak electricity demand.

The Microgrid controller covers many different University and Council buildings enabling the management of different energy sources across the Oxford Road Corridor district, including Birley Campus, as well as enabling data visibility and energy consumption optimisation across a range of buildings.

This commitment and investment exemplifies what practical steps can be taken by organisations to reduce their carbon footprints and invigorate their local economy with knowledge-led solutions at the core.

To find out more and watch a short film about the project's work in Manchester, go to triangulum-project.eu

We installed 580 solar panels on the roof of our Brooks building.



Environmental management systems



Aim:

Maintain ISO 14001:2015 certification and continually improve our Environmental Management System (EMS).

EMS certification

Achieved

Objective and target: Maintain certification to the ISO 14001:2015 standard.

Our management system has ensured we continually evaluate our environmental compliance obligations.

Progress: We've already achieved ISO 14001:2015 certification and were the first UK university to achieve the new and more challenging standard. We successfully completed our surveillance audits in 2017 and 2018, where zero major non-conformances were raised.

We delivered a robust internal auditing schedule to make sure we remain compliant with our written practices and procedures.

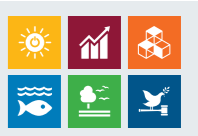
We've continually improved our environmental performance and our management system, and have implemented a number of new objectives and targets, particularly under sustainable transport, which are reported in this document for the first time.

Since achieving the ISO certification, we have been sharing our experiences, by delivering workshops at sector events and conferences, through publication, and by providing advice to other universities and public sector organisations.

Our management system has ensured we continually evaluate our environmental compliance obligations.



Ethical investment



Manchester Met has an Ethical Investment Policy that is part of the University's Treasury Policy. The policy outlines our commitments and responsibilities to ensure we are an institution that invests responsibly.

We are proud to have joined an international divestment movement to demonstrate climate leadership along with a number of other universities, organisations and cities.

Aim:

When investing our funds we will give due consideration for ethical, environmental, corporate governance and social issues in line with our Ethical Investment Policy.

Policy commitments

Achieved

Objective and target: Adhere to the commitments in the University's Ethical Investment Policy.

We were also proud to join the 'Fossil Free' divestment movement in 2016. We do not invest directly (or through collective funds) in fossil fuel and arms companies, or corporations complicit in violation of international law.

Progress: We've continued to adhere to the commitments set out in the policy, demonstrating our commitment to progress ethical investment at the University.





Pollution prevention and legal compliance

Aim:

Prevent pollution by minimising local discharges to air, land and water, and ensure compliance with all relevant environmental legislation and other mandatory obligations.

Pollution incidents

Achieved

Objective and target: Reduce the number of pollution incidents to land, surface and groundwater, aiming to achieve zero pollution incidents.

Progress: There were zero pollution incidents for the reporting year, and we have continued to implement our emergency spill response procedure when required.

Environmental compliance

Achieved

Objective and target: Determine and understand the University's environmental compliance obligations and ensure zero major non-conformances due to compliance obligation breach.

Progress: No major non-conformances were identified in 2017-18.

We continued to understand our compliance requirements through using our legislation update service.

Zero pollution incidents for the reporting year.



Sustainability Trail and wetland area school session

Resilience to climate change



It is important that we are able to make changes and take the necessary steps to prepare for the effects of climate change. Doing this will reduce our vulnerability, meaning we are better able to cope with the effects of climate change and increase our organisational resilience and sustainability.

Resilience to climate change aims to examine how we can adapt our policies, procedures and infrastructure to respond to the challenges presented by climate change. Our objectives and performance indicators measure and track our progress towards building resilience to weather and climate change risk.

Climate change will impact our estate and supply chain. We are focusing our efforts on the immediate and future impacts of climate change on our estate with good emergency planning and designing our new buildings for future climates.

Aim:

Ensure the University builds resilience to weather and climate change risk.



Emergency planning

On track

Objective and target: Ensure the University is testing its Emergency and Business Continuity Plans to respond to the impacts of severe weather and flooding. Plans to be tested every 18 months.

Progress: Incident Response and Crisis Management Plans were launched in 2017 by the University Business Continuity Steering Group, and approved by the University Executive Group in 2017. The plans set out the University's response and procedures for a range of crisis situations, including our procedures for disruption to University operations because of severe weather and flooding.

The Incident Response and Crisis Management Plans were tested in 2016-17. The exercise resulted in an improved understanding of roles and responsibilities under the plan, an evaluation of the effectiveness of the Crisis Management Team, the processes in place as part of our response, and the effectiveness of University business continuity plans. The next test is planned for the 2018/19 academic year.

Staff development

Achieved

Objective and target: Develop and deliver training to staff ensuring the University is prepared for climate change risks.

Progress: The Security and Business Continuity Team delivered an on-scale validation training exercise at the University in 2016/17.

In 2017-18, the Security and Business Continuity Team delivered level 5 of the 'Corporate risk in crisis management' course to four further members of key staff across the University.

We have continued our engagement with the Manchester Business Continuity Forum.

Sustainable buildings



Developing sustainable buildings is a key component in achieving many of our ambitious targets and improving our environmental performance. Designing, building and refurbishing buildings that are efficient and enable sustainable behaviours will contribute towards our energy, carbon and water targets. It will also help us to incorporate wider benefits such as increased biodiversity and improved student and staff wellbeing.

Aim:

Embed principles that will minimise the environmental impact of the University estate from design to occupation.

Achievements:

£378.8m Our Estates Masterplan Investment Programme spend projected over the next five years.

Energy efficiency

On track

Objective and target: Improve our Energy Efficiency Performance Certificate ratings for new builds and achieve 'B' rating or above.

Progress: Over the course of the year, no new builds were completed. However, all new builds in development are on track to achieve 'B' rating.

BREEAM sustainability assessment

Behind

Objective and target: Achieve BREEAM 'Excellent' rating or above for new builds.

Progress: Over the course of the year, no new builds were completed.

Unfortunately, the Arts and Humanities building and Plot E residential developments are no longer on track to achieve the BREEAM 'Excellent' rating, but are likely to achieve 'Very Good'. However, a sustainability advisor continues to be an integral part of the design process and ensures that the University's Environmental Design Principles (EDPs) are embedded at all stages of the design process, to minimise any environmental impacts.

The new School of Digital Arts, currently in design phase, is on track to achieve BREEAM 'Excellent'.

Refurbishment projects

On track

Objective and target: Achieve SKA Silver certification for appropriate building refurbishment projects.

Progress: This year, we opened our new 6 Great Marlborough Street Building. The building is on track to meet the requirements for SKA Silver, and is due to be certified in 2018-19. This was the only building refurbishment project completed in 2017-18.



Sustainable and ethical procurement



Climate change and resource use are key global issues. It's important to make decisions to lessen our contribution towards climate change, while at the same time utilising resources more effectively. Procuring goods and services in a way that achieves value for money on a whole-life basis generates benefits for the University, for society, the environment, and the economy as a whole.

Aim:

Consider the economic, social and environmental impacts and whole-life costs of purchasing decisions and take appropriate action.

47% of the University's products and services were procured within Greater Manchester, with 63% in the North West.

3,179 suppliers provided goods, services or works to the University with an expenditure of over £95 million.

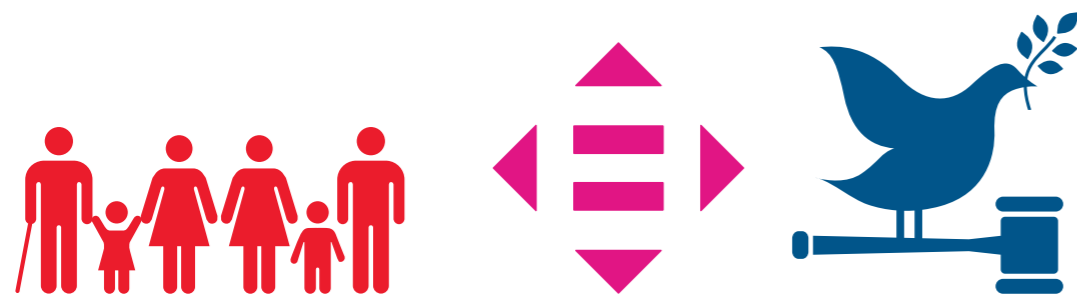
Sustainable Procurement Practice

On track

Objective and target: Improve the sustainable procurement practice at the University, by achieving Level 4 of the Flexible Framework by 2018-19.

Progress: In 2017-18 we continued to work towards Level 4 of the Flexible Framework and improve our procurement practice by:

- Developing a campaign for the reduction of single-use plastics across the University. We no longer use plastic cutlery and straws in campus catering units and we are installing more drinking water fountains across campus and have handed out reusable drinking bottles to staff and students.
- Commissioning a Flexible Framework gap analysis with NETpositive futures and are implementing actions to improve our sustainable procurement processes.
- Maintaining our Fairtrade University Status.
- Affiliating with Electronics Watch and developing tenders to include requirements for our IT suppliers to provide transparency on worker rights through their supply chains.



Travel management



Manchester Met's contribution to reducing local congestion, air pollution, and enabling sustainable, safe travel choices for our students and staff are essential in supporting Manchester's efforts to create a healthier and cleaner city.

We've shown strong performance against our targets, delivering a reduction in single occupancy vehicle trips and increasing cycling journeys. This year we've updated our objectives and targets, making them more challenging and placing a stronger focus on walking, running and cycling.

Aim:

Minimise the impact of staff and student travel and encourage the use of efficient modes of transport that reduce environmental impact, traffic congestion and air pollution.

2017-18 highlights:

54% of the University vehicle fleet is now a low emission or electric vehicle.

181 staff are now registered for the University Pool Car Scheme – up 27% on 2016-17.

140 cycle to work loans administered.

9.3% of staff cycle into work – supporting TfGM's vision to increase journeys made by bike to 10% by 2025.

Gold standard Travel Choices Accreditation Scheme (TfGM) re-awarded for 2017-18.

36 electric charging points hosted on campus.



Low emission fleet

On track

Objective and target: Increase the proportion of low emission vehicles in the University core vehicle fleet to 75% by 2020-21.

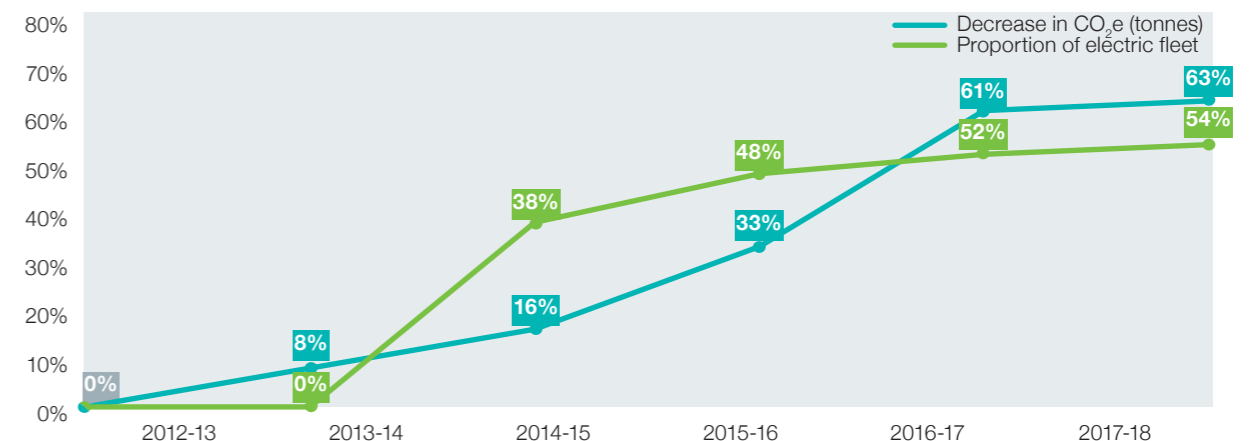


Progress: We are confident that we are on track to meet our 2020-21 target for low emission vehicle fleets, although we have fallen slightly behind our target trajectory for 2017-18. During 2017-18 we have delivered initiatives to promote and increase the use of low emission vehicles across the city.

2017-18 highlights:

- By replacing our inefficient petrol and diesel fleet vehicles with low emission alternatives we have reduced carbon emissions by 63% since our 2013-14 baseline.
- We delivered a number of electric vehicle (EV) roadshows, with demonstrations and test drives.
- During the year, our 13-vehicle electric/hybrid pool vehicle fleet clocked up over 65,661 business travel miles, costing just £2,612 in electricity. This saved the equivalent fuel costs of £15,840 and 15.29 tonnes of CO₂e.
- We have installed capacity for 34 electric vehicles to charge on campus.

Carbon savings as a result of our electric and low emission vehicle fleet



¹ Source: Manchester Metropolitan University biennial travel and sustainability survey (2017-18). Average figures presented for Manchester and Cheshire campuses.

Single occupancy journeys

Achieved

Objective and target: Manage the number of Manchester-based Single Occupancy Vehicle (SOV) journeys direct to campus by maintaining SOV rate of less than 20%.¹



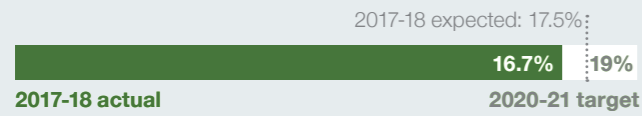
Progress: In 2017-18 we introduced a more challenging SOV target after achieving our previously set 2020-21 target (to reduce SOV rate below 25%).

Our city centre Manchester campus is widely accessible by public transport, cycling or walking. In light of changes to the University estate we are currently reviewing our car parking policy to further encourage car sharing and alternative, sustainable transport options.

We're also working to reduce the impact of staff business travel. The number of frequent business travellers has decreased – in 2017-18 only 16.1% of staff travelled for business once a week or more, down from nearly 20% in 2016-17.

NEW Staff Active Travel **On track**

Objective and target: Increase the uptake of staff journeys to work (Manchester Campus) by active travel modes (cycling, walking and running) to 19% by 2020-21.



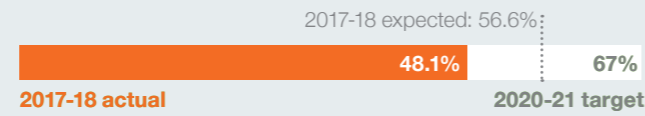
Progress: Our new target reflects the increasing importance of walking and cycling in the city, with the publication of Greater Manchester's Made to Move Strategy. We are slightly behind in delivery of our ambitious target, so more focus will be placed on the development of actions that will increase active travel amongst our staff, supporting an improved rate in 2018-19.

Activities to date:

- Over the past three years 224 bicycles worth £215k have been purchased through the cycle to work scheme.
- Increased the number of cycle parking spaces by 18% (against 2013/14 baseline).

NEW Student Active Travel **Behind**

Objective and target: Increase the uptake of student journeys to University (Manchester campus) by active travel modes (cycling and walking) to 67% by 2020-21.

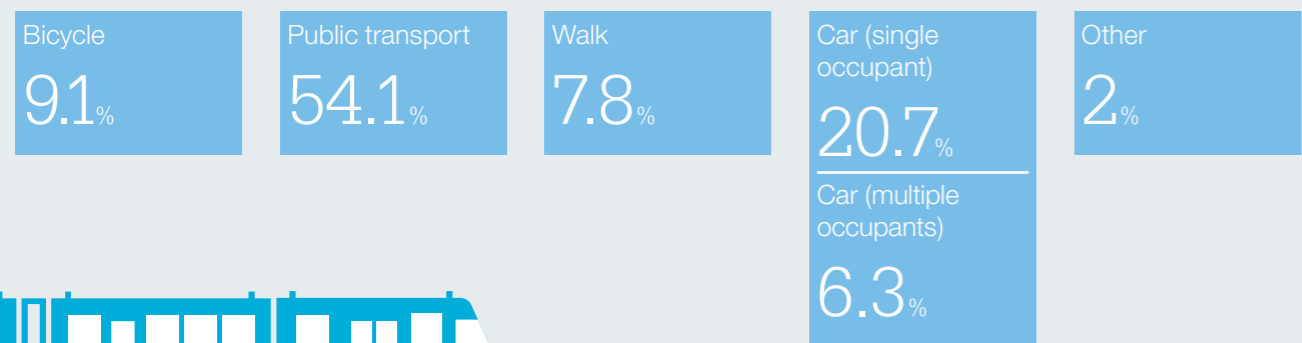


Progress: This ambitious target has a dual outcome of both reducing the carbon footprint of student commuting, and supporting health and wellbeing through improving levels of activity. This is the first time we've promoted active travel options to students. Our stretch target has proved challenging in 2017-18, but we are lining up activities to increase progress towards our 2020-21 goal.

Activities to date:

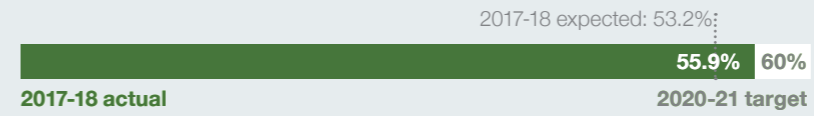
- We give away bikes and trainers to students as prizes in competitions we run annually, providing an incentive for students to try a new mode of transport.
- We provide bicycle security marking and providing reduced price 'gold standard' locks for bicycles through the Manchester Met Security Team.
- We are developing a cycle hire scheme for students, to allow them to rent a bike per academic year while they're in Manchester.

How our staff travel to work (2017-18) – Mode of transport*



NEW Staff Public Transport **On track**

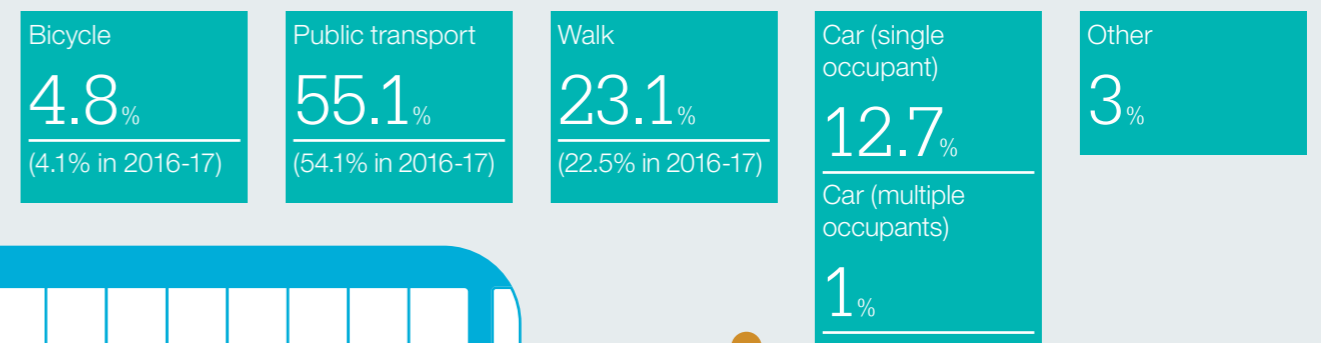
Objective and target: Increase the uptake of staff journeys to work (Manchester campus) made by public transport to 60% by 2020-21.



Activities to date:

- We provided interest free loans for annual public transport tickets for staff.
- In 2017-18, we subsidised two bus services to improve the accessibility of the estate (bus numbers 141 and 147).
- The Oxford Road Bus Priority works were completed in 2017 and highlight wider investment in sustainable travel options, seeing the University work with both Manchester City Council and Transport for Greater Manchester.

How our students planned to travel to university (2017-18) – Mode of transport*



* Source: Manchester Metropolitan University biennial travel and sustainability survey (2017-18). Average figures presented for Manchester and Cheshire campuses.

* Source: Manchester Metropolitan University online enrolment survey (2017-18). Average figures presented for student mode of transport to university for Manchester and Cheshire campuses.

Waste and resource management



Our waste and resource use has a number of environmental, social and economic implications. We are operating in ways to reduce our negative impacts to combat the limited availability of landfill, finite resources, climate change and environmental degradation. We are looking beyond the current 'take-make-dispose' model, contributing towards waste minimisation, product and material repurposing and reuse, and efficient resource use.

Aim:

Embed the principles of the waste hierarchy to prevent, reduce, reuse, recycle and dispose of our waste.

2017-18 highlights:

4 Our Give it Don't Bin It campaign won four awards during 2017-18 and has raised over £1.3 million across the city since inception, and over £500,000 in 2017-18.

- Reaching Higher Award at 2018 AUDE Awards.
- Best reuse and waste prevention project of 2017 at the Chartered Institute of Waste Management Awards 2017.
- Innovation in Student Experience, Cubo Awards 2018.
- 2018 Heart Hero Award for Retail Partner of the Year.

To reduce single use plastics we've been **promoting drinking water fountains and reusable bottles across campus**. We will develop objectives and targets related to this outcome during 2018-19. For more information see the sustainable procurement section on page 38.



Reuse and recycling

On track

Objective and target: Increase reuse and recycling to 60% by 2020-21.



Progress: Our recycling rate has been achieved by:

- Providing food caddies in kitchens in all campus buildings to ensure staff are able to recycle leftover food and unavoidable food waste (e.g. tea bags, banana skins).
- Refreshing waste communications to make it easy for staff and students to recycle.
- Continuing to promote our award winning Give It Don't Bin It partnership with the British Heart Foundation, through which over 5,151 bags (equivalent to 41 tonnes) of clothes, books and unwanted items worth up to £72,114 were donated in 2017-18.
- Working with Manchester Central Food Bank to ensure any dried/non-perishable food left in halls at the end of the year are not wasted but redistributed into the local community.
- Ongoing awareness raising with students including recycling competitions in halls to recognise and reward those taking responsibility for their rubbish and recycling.

- Hosting two 'Pop Swap' events to promote sustainable fashion.
- Waste is diverted from landfill, and is reused, recycled or recovered (using the waste disposal hierarchy as a guide).

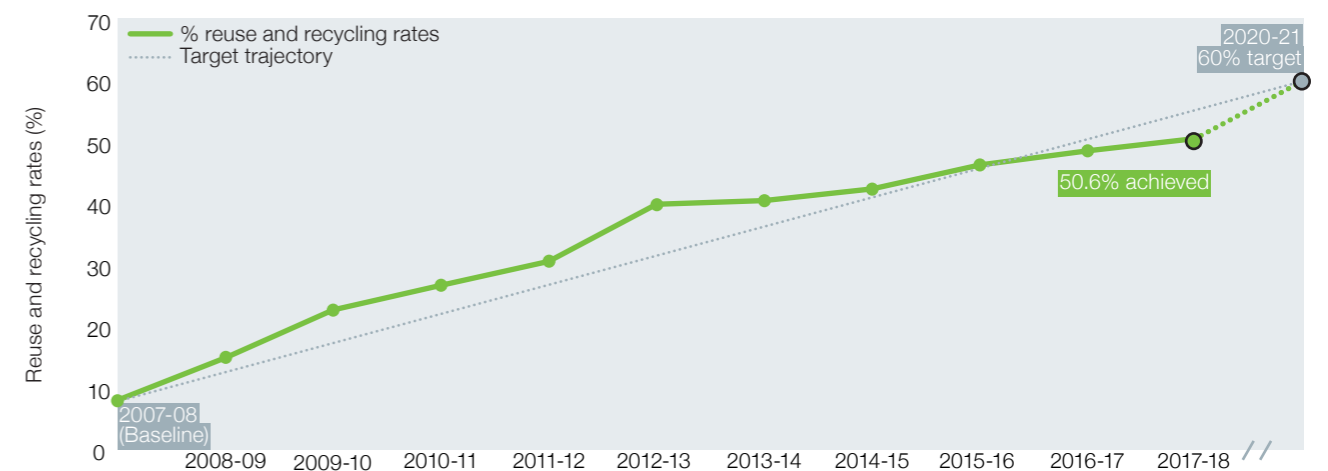
Our recycling and reuse rate is going in the right direction, but the rate at which it is increasing is continuing to slow. Our successes so far have helped us to increase our recycling, delivering 'quick wins' and now more targeted effort must be made to increase this rate further.

Student headcount is projected to increase by 10% by 2020-21 and there are ambitious development plans for the University's estate. With these challenges in the pipeline we understand the interventions we must take to ensure we meet our 2020-21 target.

We plan to tackle this in a number of ways including:

- Introducing Warp It, an internal furniture re-use scheme to ensure as much of our furniture as possible stays on campus.
- Working closely with our main waste contractor to understand what recyclable items people are throwing away as general rubbish, and so tailor our interventions accordingly.
- Review where we can improve waste and recycling provision as part of ongoing improvements to our public realm.

Reuse and recycling rates (excluding all building projects) (on-site) (%)



Less landfill waste (excluding building projects)

Achieved

Objective and target: Divert at least 95% of waste from landfill, excluding waste from all building projects.



Progress: Our waste is either reused, recycled, or energy is recovered from non-recyclable wastes.

2017-18 highlights:

Zero waste to landfill through our main waste contractor.

Less landfill waste (including building projects)

Achieved

Objective and target: Divert at least 85% of waste from landfill, including waste from all building projects.



Progress: This level of waste diversion has been achieved through supporting better understanding and awareness of the University's waste design guide. Wherever possible, our contractors do not send waste to landfill, and minimise on-site waste generation during construction.

2017-18 highlights:

Only 19.3 tonnes (including building projects) goes to landfill through other waste disposal methods across the University.

What happens to our waste (excluding building projects)

The majority of our waste data is provided by our contractors or by estimation based on conversion factors used for calculations taken from the UK Waste Classification Scheme and Furniture Reuse Network if weight data is unavailable.

Manchester Met produced approximately 10% less total waste during 2017-18 compared to 2016-17 (excluding building projects).

Recycling and reuse – 50.6%

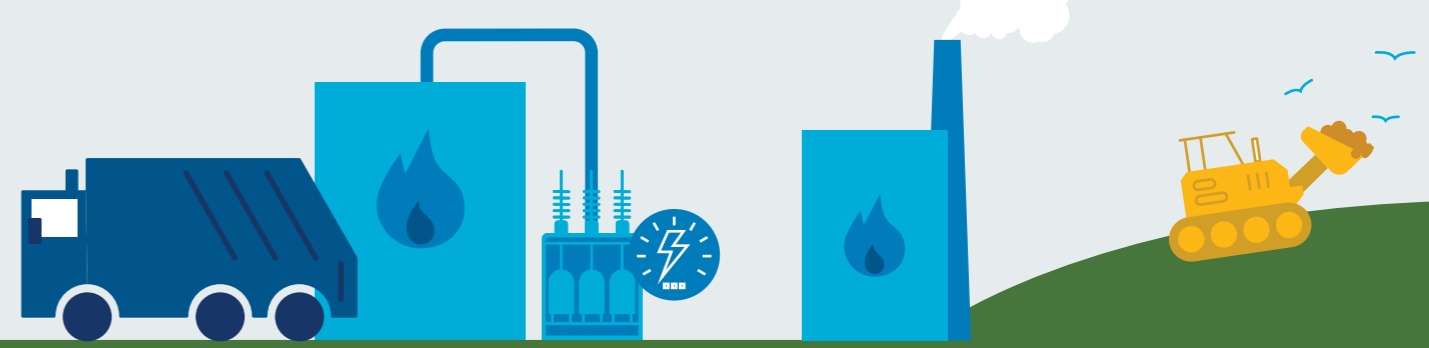
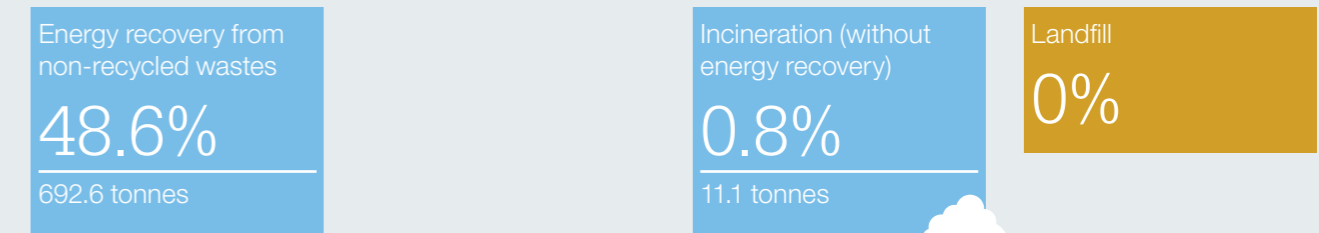
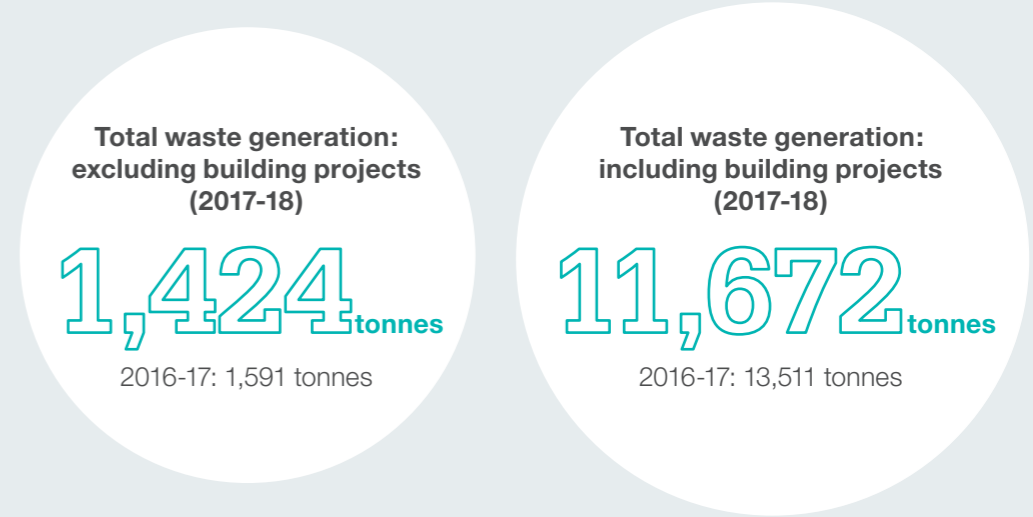


Case study: Waste to Resource Innovation Network

Our Waste to Resource Innovation Network (W2RIN) is a cross-faculty network encompassing the whole University (faculties, departments and research centres) working on the development and embedding of the circular economy principles into business models, through systems approaches, via educational practices and also as part of the product design stage.

W2RIN also founded the Circular Economy Club – Manchester in 2018, which is a global professional networking platform for circular economy experts, supporting Greater Manchester's transition from a linear to a circular economy.

Everything that W2RIN does fits into the Greater Manchester Mayor's strategy of making Manchester one of the leading green cities in Europe. Our current projects include research to assess the change in waste streams to provide future proofing for Viridor; Erasmus-funded work to develop teaching guides and hold workshops to engage with key stakeholders at government level to drive recycling rates up; and researching applicability of up-cycling plastic to provide a more circular economy approach.



¹ WEEE Waste Electrical and Electronic Equipment

Water management



Of all the water in the world, only 3% is fresh, and only around 0.3% of this fresh water is available for human use. Water is a limited resource; the more that is consumed, the less that is available for other means, such as agriculture, healthy rivers, and wetlands.

It is important that we work to reduce our water consumption, through the use of efficient systems; facilitating behaviours that support efficient water use; reusing more water; making continued efforts to collect and recycle rainwater; and ensuring the deployment of sustainable urban drainage systems.

Aim:

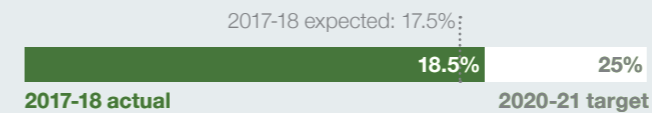
Effectively manage and reduce our water consumption across our estate and increase the deployment of sustainable drainage and flood prevention measures.



Total water consumption

On track

Objective and target: Reduce total water consumption by 25% by 2020-21.¹



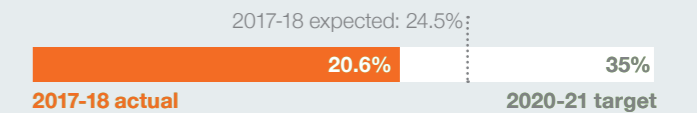
Progress: Over the year, a number of actions were taken to reduce our water consumption and associated costs. We implemented water saving opportunities identified during campus-wide water audits and have invested in loggers on our water meters. These provide real-time data on water use, significantly improving our control and response to leaks.

In June 2018, an external water leak was identified with the help of the University's water monitoring system. The location of the leak was identified using sophisticated leak correlator equipment and repaired. In carrying out the repair, the University prevented 9,000 litres of water being wasted each day (over the course of a year, this equates to 1.3 Olympic sized swimming pools).

Mains water consumption

Behind

Objective and target: Reduce mains water consumption by 35% by 2020-21.



Progress: This year our mains water consumption is higher than expected due to operational issues with water treatment from the borehole system at Birley.

In 2017-18 we began to replace high water consuming lab equipment in our Faculty of Science and Engineering with zero water alternatives. A closed loop chiller was trialed to reduce the need for tap water when using rotary evaporators and a waterless vacuum pump system was purchased. These trials proved successful and further replacements are scheduled for 2018-19.

In total, our non-mains water consumption (provided by borehole water extraction, rainwater and greywater sources) was 4,101m³ in 2017-18, accounting for approximately 2.6% of our water needs.

Water consumption – tracking our progress

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Total Water Consumption								
Reduction (%)	0	-6.0	-11.8	-12.9	1.9	21	-9.4	-18.5
Consumption (m³)	196,896	184,991	173,731	171,514	200,589	238,257	178,378	160,441
Mains Water Consumption								
Reduction (%)	0	-6	-11.8	-16.4	-4.1	17.4	-13.3	-20.6
Consumption (m³)	196,896	184,991	173,731	164,609	188,831	231,224	170,657	156,340

Water consumption is calculated using data provided by the University's water supplier, and is verified against the University's own monitoring systems.

¹ Total water consumption includes all water sources including mains water; water drawn from our borehole at Birley; rainwater and greywater that we have collected for use/reuse.

Management and governance

All of the Environmental Sustainability Policy areas reported in this annual report are identified as a 'material topic' to Manchester Metropolitan University.

Each reflects our significant environmental or social impacts, or can substantively influence the assessments and decisions of our stakeholders.

Each material topic and its boundary were identified in the development of the University's Environmental Management Framework, and prioritised using the stakeholder inclusiveness and materiality principles.

The policy areas are managed through our Environmental Management System – ISO 14001:2015 standard. We deliver, monitor, annually review and evaluate each of the policy areas using the ISO 14001 framework.

Each policy area has an overarching aim, objective(s) relevant to the delivery of that aim, and time bound targets.

In order to maintain and comply with the requirements set out in ISO 14001:2015, we undertake an annual management review with the key responsible person for each policy area. The management review assesses our performance by understanding our progress towards the objectives and targets, the adequacy of resources allocated to that policy area, and relevant communications from interested parties. The review also identifies opportunities for continual improvement, changes to external and internal issues relevant to the policy area, risks and opportunities, and actions to manage or mitigate the risks and opportunities.

The management review may result in proposed changes to the relevant policy area (e.g. target date, baseline year, data source and methodology). In these cases, a performance summary and proposed changes are presented to the Estate Strategy Group and approved by the University Executive Group

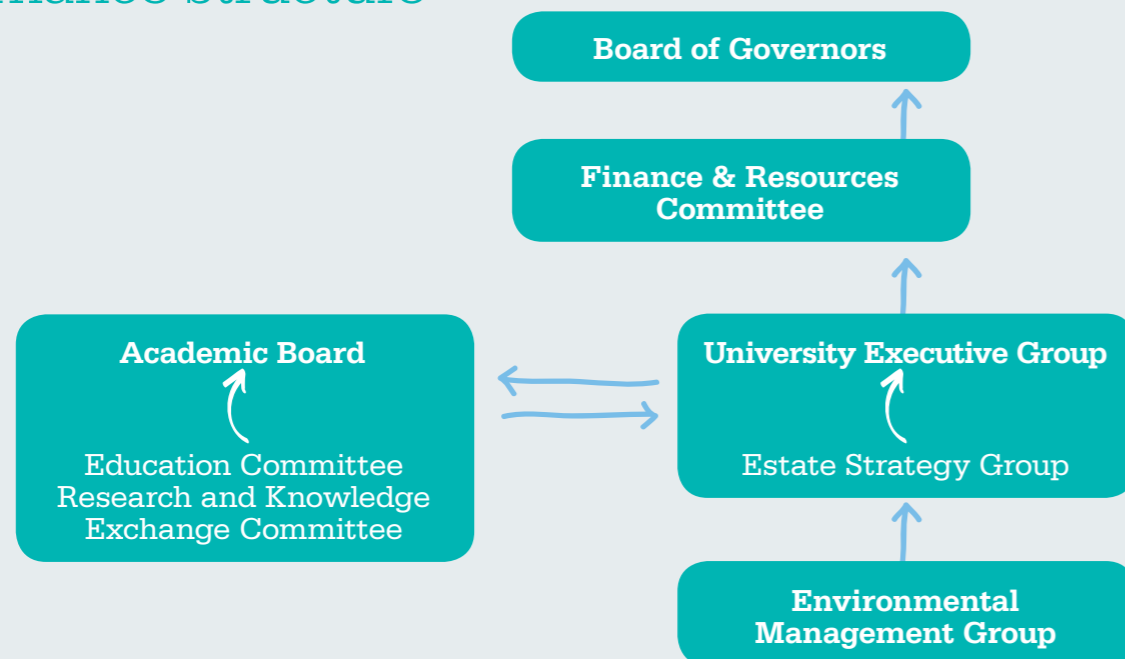
Each year, the effectiveness and management systems that form the ISO 14001:2015 Environmental Management System are externally assessed by NQA.

Leadership and governance

Leadership and governance for sustainable development is critical if the University is to integrate a wide range of related issues into its values, culture, learning, teaching, research and other business activities.

A range of University boards and committees are responsible for strategic direction and support, oversight and implementation of the Environmental Sustainability Policy, Strategy and initiatives relating to sustainable development.

Governance structure



About the statement

Scope

This report covers the policy areas as set out in the University's Environmental Sustainability Policy, and reports on our progress towards meeting policy aims and objectives, laid out in our Environmental Sustainability Strategy (2014-2020). The report covers information relating to our business activities and associated impacts, including our estates and operations, education for sustainable development (including the formal and informal curriculum), and an overview of the University Research and Knowledge Exchange Centres (URKECs) where identified as significant contributors towards sustainable development.

Data and information

Data and information provided within this report relates to the academic year 2017-18 (1 August 2017 to 31 July 2018), unless otherwise stated.

Target completion dates are stated by the year 2018 or 2020-21, which refers to the end of academic year (31 July 2018 or 2021). Where relevant, data is measured against a baseline year, which are provided in the key performance indicator table in this report.

We will always highlight where commitments and data have been amended and explain the reasons why; for example change of baseline years and measurement methods.

Reporting cycle

The Environmental Sustainability Statement is produced annually and reports on progress towards the University's Environmental Sustainability Policy and Strategy for the defined academic year. Our most recent previous report was produced for the academic year 2016-17, and was published in March 2018.

Stakeholder engagement and relationships

Understanding our stakeholders' needs, expectations and interests is essential in maintaining our environmental sustainability performance, as well as our ability to continue to reduce our negative external impacts and build on our positive ones.

As part of the University's Environmental Management System, ISO 14001:2015, ensuring that we are aware of our key stakeholders' needs and interests means we are able to prioritise and address our significant organisational external impacts, and address issues that are important to our stakeholders, which also satisfies the requirements of the ISO standard.

In 2017-18, we have engaged directly with some of our stakeholders, and reviewed the needs, expectations and interests of others as part of the Environment Management System annual review with regards to environmental sustainability.

We use feedback from stakeholders to develop our strategy and activities.

Our students, the NUS, and Greater Manchester Combined Authority were all keen to see Manchester Met support the campaign to reduce reliance on single-use plastics. We have developed an action plan to tackle single-use plastics. Our catering team have removed plastic cutlery and straws and provide a discount for hot drinks served in reusable cups. In 2018-19 we are installing more drinking water fountains across campus to reduce use of single-use plastic bottles.

Staff and students were concerned that recycling information was not clear enough on our bins. We updated all our labelling to help students do the right thing with their wastes.

Read on to learn how we have engaged our stakeholders over the year.



Stakeholders

We have engaged a range of stakeholders in a several ways:

Students

- Enrolment surveys (all students)
- Social media
- Workshops, campaigns and events
- Training and development

Concerns, topics raised and our response:

- 83% of students think that Manchester Met is an environmentally sustainable university.
- 68% of returning students tell us they are gaining the skills and knowledge to help them understand key global sustainability issues – we are working to deliver more related activities through the formal and informal curriculum.

Employees

- Staff surveys (travel and sustainability)
- Training and development
- New staff inductions and events
- Internal communications channels
- Social media
- Workshops, campaigns and events

Concerns, topics raised and our response:

- 84% of staff think that Manchester Met is an environmentally sustainable university – an increase from 75.8% in 2016-17.
- We are working to develop a staff development scheme for sustainability and are communicating about existing courses to staff.
- Requests for information relating to incentives, schemes and loans – we respond directly to enquiries and provide information on the University webpages.

Employees relevant to the implementation of the Environmental Sustainability Policy, Strategy and development of the annual Environmental Sustainability Statement

- Progress and management review meetings
- Management group consultation

National and local government

- Responses to consultation
- Meetings and workshops
- Supporting local governmental initiatives

Regulatory bodies

- Submissions of data and compliance obligations
- Responses to consultations

Local communities/residents

- Community forum meetings
- Community projects
- University enquiries

Sector advisory groups, networks and bodies

- Conferences and events
- Webinars
- Workshops
- Sector mailing lists

Suppliers

- Tender submissions and interviews
- Supplier engagement tools (sustainability action planning)

Research councils and funding bodies

- Research symposiums
- Publications
- Funding submissions

Unions and campaign groups

- Involvement in National Union of Students initiatives
- Information submissions

Concerns, topics raised and our response

- People & Planet University league assessment – information is publicly available on our website.

Other Higher Education Institutions

- Meetings/fora
- Best practice sharing
- Manchester-specific shared initiatives such as 'Give It Don't Bin It'

Key performance indicators

– summary

Refer to the relevant sections in this report for further information

Objective	Key performance indicator	Baseline year	2016-17	Progress 2017-18	Target and date achieved by	On-track to meet target?
Learning for a Sustainable Future, page 12						
Deliver, embed and enhance activities that develop knowledge, skills and attributes for sustainable development amongst students	Percentage of students that perceive they are gaining the skills and knowledge that are helping them understand key global sustainability issues	2015-16	65.3%	67.6%	80% by 2020-21	On track
Support professional development opportunities that equip staff with the knowledge and skills to embed Education for Sustainable Development, and support the sustainability commitments of the University	Percentage of staff who feel that the University has provided professional development opportunities that increase awareness and understanding of environmental sustainability	2016-17	39.7%	45.8%	50% by 2020-21	On track
Deliver effective communications that support knowledge, skills, and attributes for sustainable development and promote our reputation as a leading sustainable university	Student perception of Manchester Metropolitan as an environmentally sustainable university	N/A	83.3%	84.0%	Maintain score of 80%	Achieved
	Staff perception of Manchester Metropolitan as an environmentally sustainable university	2015-16	75.8%	82.5%	Maintain score of 80%	Achieved
Biodiversity and growing systems, page 20						
Undertake university-wide biodiversity audits to monitor priority habitats and species, and inform the development of appropriate management, maintenance and conservation plans	Number of different habitat types and/or number of different species	2013-14	96 Species 13 Habitats	96 Species 13 Habitats*	Measure and maintain habitat and/or species diversity	On track
Evaluate and promote the multifunctional benefits from the University's green infrastructure	Number of different opportunities for engagement	2013-14	35	8	Measure and increase engagement opportunities	Not achieved
Promote the use of university buildings to enhance habitat connections within and between campuses	Number of physical connections between habitats	2015-16	72	72*	Measure and maintain habitat connectivity	On track
Carbon and energy management, page 22						
Reduce Scope 1 and 2 carbon emissions	Percentage reduction of Scope 1 and 2 CO ₂ e emissions	2005-06	-34.3%	-41.6%	50% reduction by 2020-21	On track
Measure and report Scope 3 emissions	Total Scope 3 emissions (including purchased goods and services, business travel, employee and student commuting, waste disposal, leased assets and franchises, transmission and distribution of energy)	N/A	61,903 tonnes	61,242 tonnes	Measure Scope 3 Emissions	Achieved
Reduce energy consumption	Percentage reduction gas consumption (kWh)	2005-06	-37.1%	39.7%	50% reduction in gas consumption by 2020-21	On track
	Percentage reduction electricity consumption (kWh)	2005-06	-14.8%	-12.1%	50% reduction in electricity consumption by 2020-21	Behind
Improve Display Energy Certificate (DEC) rating of university buildings	Average DEC rating	2007-08	74	68	Achieve average DEC rating of C or above (51-75)	Achieved
Environmental management systems (EMS), page 30						
Maintain ISO 14001:2015 certification	Certification to ISO 14001:2015 standard	N/A	Maintained certification	Maintained certification	Maintain certification and continually improve EMS	Achieved
Ethical investment, page 31						
Adhere to the commitments in the University's Ethical investment Policy	Compliance with the Ethical Investment Policy	N/A	Maintained compliance	Maintained compliance	Maintain compliance with the Ethical Investment Policy	Achieved

*Data taken from 2016 BioBlitz Survey.

Objective	Key performance indicator	Baseline year	2016-17	Progress 2017-18	Target and date achieved by	On-track to meet target?	
Pollution prevention and legal compliance, page 33							
Reduce number of pollution incidents to land, surface and groundwater	Number of pollution incidents	N/A	0	0	Zero pollution incidents	Achieved	
Determine and understand the University's environmental compliance obligations and evaluate our compliance status	Number of major non-conformances due to a breach in our compliance obligations	N/A	0	0	Zero major non-conformances related to a breach in our compliance obligations	Achieved	
Resilience to climate change, page 34							
To ensure the University is testing its Emergency Plans to respond to severe weather and flooding	Emergency plans developed and tested	N/A	Plans developed	N/A Test planned in 2018-19	Plans to be tested every 18 months	On track	
Develop and deliver training to staff ensuring the University is prepared for climate change risks	Training delivered	N/A	Training delivered	Training delivered	Training delivered by 2018-19	Achieved	
Sustainable buildings, page 36							
Improve Energy Performance Certificate (EPC) ratings for new builds	EPC rating	N/A	Zero new builds completed	Zero new builds ; 2 builds on track to achieve B rating	Achieve B Rating or above	On track	
Achieve BREEAM 'excellent' rating for new builds	BREEAM rating	N/A	Zero new builds completed	Zero new builds; 2 buildings not projected to meet Excellent rating	Achieve Excellent rating or above	Behind	
Achieve SKA Certification for appropriate building refurbishment projects	Level of SKA Award	N/A	Zero refurbishment projects	6GMS building refurbishment is on track to achieve SKA 'Silver' Rating	Achieve Silver SKA Award	On track	
Sustainable and ethical procurement, page 38							
Improve sustainable procurement practice at the University	Level of Flexible Framework	N/A	Level 3	No assessment	Achieve Level 4 by 2018-19	On track	
Travel management, page 40							
Increase the proportion of low emission vehicles in the University's core vehicle fleet	Percentage of low emission vehicles	2013-14	52.0%	54.0%	75% by 2020-21	On track	
Reduce number of Manchester based Single Occupancy Vehicle journeys direct to campus	Percentage Single Occupancy Vehicle	2013-14	25.9%	19.4%	Maintain rate of less than 20%	Achieved	
New for 2017-18	Increase the uptake of staff journeys by active travel modes (cycling and walking)	Percentage of staff journeys to Manchester campus made by cycling or walking	2013-14	17.7%*	16.7%	19% by 2020-21	On track
	Increase the uptake of student commuting journeys by active travel modes (cycling and walking)	Percentage of student journeys to Manchester campus made by cycling or walking	2013-14	26.6%	48.1%	67% by 2020-21	Behind
	Increase journeys to Manchester Campus made by public transport	Percentage of staff journeys to Manchester campus made by public transport	2013-14	49.2%*	55.9%	60% by 2020-21	On track
Waste and resource management, page 44							
Increase reuse and recycling (on-site)	Reuse and recycling rate	2007-08	48.6%	50.6%	60% by 2020-21	On track	
Divert waste from landfill (excluding waste from all building projects)	Percentage of waste diverted	N/A	99.9%	100%	Maintain 95% waste diversion	Achieved	
Divert waste from landfill (including waste from all building projects)	Percentage of waste diverted	N/A	98.4%	99.8%	Maintain 85% waste diversion	Achieved	
Water management, page 48							
Reduce total water consumption	Percentage reduction of total water use	2010-11	-9.6%	-18.5%	25% reduction by 2020-21	On track	
Reduce mains water consumption	Percentage reduction of mains water use	2010-11	-13.3%	-20.6%	35% reduction by 2020-21	Behind	

*From biennial staff survey undertaken in 2015-16.

Appendices

Brooks building at Birley Campus,
home of Manchester Metropolitan's
Sustainability Trail

Appendices

Habitats and species page 20

	2014-15	2015-16	2016-17	2017-18
Species (count)	207	279	96	No survey
Habitats (count)	12	13	13	13

Biodiversity and engagement opportunities page 21

	2014-15	2015-16	2016-17	2017-18
Engagement opportunities (count)	18	22	35	8

Carbon emissions page 22

	Baseline Year	Baseline (tonnes CO ₂ e)	Last year 2016-17 (tonnes CO ₂ e)	This year 2017-18	Reduction on baseline (tonnes CO ₂ e)	Reduction on baseline
Scope 1 emissions (gas consumption, fugitive emissions, fleet vehicles)	2005-06	8,510	5,460	5,191	-3,319	-39.0%
Scope 2 emissions (electricity consumption)	2005-06	13,658	9,109	7,766	-5,892	-43.1%
Total Scope 1 and 2 emissions	2005-06	22,168	14,569	12,957	-9,211	-41.6%
Emissions intensity: Total Scope 1 and 2 emissions kg/Full Time Equivalent (FTE) staff and students	N/A	N/A	474.7 kg/FTE	411.4 kg/FTE	N/A	N/A
Emissions intensity: Total Scope 1 and 2 emissions kg/m ²	N/A	N/A	53.4 kg/m ²	47.45 kg/m ²	N/A	N/A
Scope 3 emissions	Provided in 'Scope 3 carbon emissions dashboard'		61,903	61,242	Provided in 'Scope 3 carbon emissions dashboard'	

Scope 3 Carbon emissions dashboard

Emission Source	Baseline Year	Baseline (CO ₂ e)	Last year 2016-17 (CO ₂ e)	This year 2017-18	Target (2020-21)	Status (achieved, on track, behind, not achieved)
Total waste (inc. building projects)	N/A	N/A	65 tonnes	43	N/A	N/A
Operational waste residential	2015-16	4.4kg per occupant	5.4kg	4.1kg	Maintain baseline figure	
Operational waste non-residential	2015-16	0.9kg per staff and student FTE	0.8kg	0.7kg	-10% per annum	
Water	2010-11	207 tonnes	185 tonnes	167 tonnes		
		% reduction on baseline	-10.6%	19.24%	-30%	On track
Staff commuting	2012-13	2,457 tonnes	2,151 tonnes*	2,044 tonnes		
		% reduction on baseline	-12.4%	16.8%	-15%	Achieved
Student commuting	2010-11	11,576 tonnes	11,538 tonnes	10,667 tonnes		
		% reduction on baseline	0.3%	-7.8%	-10%	On track
Business travel	2012-13	1,274 tonnes	1,290 tonnes	1,638 tonnes		
		% reduction on baseline	+1.3%	79.0%	-20%	Behind
Student travel (home)	2015-16	5,684 tonnes	5,684 tonnes**	5,330 tonnes		
		% reduction on baseline	0%	6.23%	Monitor and reduce emissions	
Purchased goods and services	2010-11	65,123 tonnes	37,743 tonnes	36,747 tonnes	Achieve Level 4 in Flexible Framework	On track
Energy from leased residential accommodation	2010-11	920 tonnes	864 tonnes	2,619 tonnes		
		% reduction on baseline	-6.1%	203.1%***	Monitor and measure emissions	Achieved
Electricity transmission and distribution	2005-06	3,294 tonnes	2,382 tonnes	1,987 tonnes		
		% reduction on baseline	-27.7%	27.3%	-50%	Behind

*Based on the biennial staff travel and sustainability survey 2016.

**Data calculation based on 2010-11 international student travel.

***An additional residential accommodation was reported for the first time this year, significantly increasing emissions.

Carbon emissions (Scope 1, 2, 3) have been calculated using the 2017 and 2018 greenhouse gas reporting conversion factors (conversion factors full set for advanced users) provided by the Department for Business, Energy and Industrial Strategy (BEIS).

The baseline year of 2005-06 for Scope 1 and 2 carbon emissions is aligned to the Higher Education funding Council for England's (HEFCE) 43% carbon reduction target for the Higher Education sector, which is calculated from a 2005-06 baseline.

The baseline years chosen for Scope 3 carbon emissions are based on the availability of accurate and robust data.

Our carbon emissions intensity data is calculated based on two different factors:

- Carbon emission (kilograms) per full time equivalent student and staff member.
- Carbon emissions (kilograms) per m² (gross internal area) for the University's owned estate.

Organisational information¹

Information provided is accurate for the reporting year 2017-18.

Total employees	– 3,134 full time employees: (1,615 female, 1,519 male) – 861 part time employees: (591 female, 270 male)
Total employees by contract type	– Permanent employees: 3,488 (1,942 female, 1,546 male) – Temporary employees: 482 (255 female, 227 male)
Employees covered by collective bargaining agreements (e.g. Trade Unions)	– Numbers covered (FTE and PTE): 2,320 – UCU: 1,639 – Unison: 681 – GMB: Not available – Percentage of total employees covered: 58.9%
Net Revenue	http://www2.mmu.ac.uk/financial-statement/
Total assets	http://www2.mmu.ac.uk/financial-statement/

Professional associations and standards for sustainability

Initiative, association or standard	
BREEAM	Building design standard
Compassion in world farming, Good Egg	Award holder
EcoCampus	Member
Environmental Association for Universities and Colleges	Member
Equality Challenge Unit	Member
Fairtrade University Status	Certified
Fossil Free UK	Divestment commitment
Go Ultra Low Company Status	Award holders
Green Tourism	Award holders
Higher Education Statistics Agency (HESA)	Member
Inter-University Sustainable Development Research Programme (IUSDRP)	Member
ISO 14001:2015	Certified
PRIME	Member
NUS Responsible Futures	Certified
SKA	Building refurbishment standard
Sustainable Restaurant Association	Member
Transport for Greater Manchester Travel Choices Accreditation Scheme	Award holders

¹ – Employee information data obtained at the end of the reporting year on the 31 July 2018.
 – Full-time employees are defined as those individuals working 30 hours or more per week.
 – Part-time employees are defined as those individuals working less than 30 hours per week.
 – Total employee figures exclude casual staff, visiting academics and has aggregated multiple post holders into a single classification.
 – Temporary employees include staff members on fixed-term contracts and those undertaking apprenticeships.
 – Employee data is provided by the University Human Resources and Management Information department.
 – Collective bargaining data provided by the University main Trade Unions (UCU, Unison and GMB), data provided in 2016-17.

Assurance and verification

Scope

NQA have undertaken an independent verification for Manchester Metropolitan University's Environmental Sustainability Statement 2017-18, prepared in accordance with the core option of the Global Reporting Initiative (GRI) Sustainability Reporting Standards. The scope of NQA's verification covers the data and information associated with Manchester Met's sustainability performance for the period 1 August 2017 to 31 July 2018. The statement covers the University's commitments, and progress towards the aims and objectives in the Environmental Sustainability Strategy 2014-20.

Level of assurance and methodology

The evidence gathering process was designed to obtain a reasonable level of assurance as set out in the GRI external assurance of sustainability reporting guidance.

In order to understand the process that Manchester Met adopted to ascertain key information in the statement, the compilation process was discussed as part of the ISO 14001:2015 certification processes. Also, systems and processes for collecting, collating and reporting sustainability performance data were verified. The verification procedure included reviewing relevant documentation, interviewing responsible personnel with accountability for preparing the reporting contents, and verifying a selected representative sample of data and information. Raw data and supporting evidence of the selected samples were examined during the verification process.

Independence

NQA was not involved in calculating, compiling, or developing the Environmental Sustainability Statement. NQA's verification activities are fully independent from Manchester Metropolitan University.



Richard Walsh MIEMA, CEnv,
Principal Assessor Energy & Environment

GRI Sustainability Reporting Standard

This report has been prepared in accordance with the GRI Sustainability Reporting Standards: core option.

As a Higher Education provider, some of our sustainability impacts (identified policy areas) are not covered by the GRI Sustainability Reporting Standards, such as Education for Sustainable Development in teaching and learning, research, and extra-curricular and development activities, which have been reported on in the 'Learning for a Sustainable Future' section. At present, no sector specific guidance exists for the education sector. Also, some of the policy area material topics are not covered by the GRI standards; for example, sustainable buildings and resilience to climate change.

We recognise that a greater range of social and economic topics, considered 'material' to Manchester Metropolitan University, may exist. The development of a broader Environmental Sustainability Statement that identifies more of our significant social and economic topics is likely to evolve over the course of the next few years.

globalreporting.org/standards

The ten GRI Standards reporting principles have helped define report content and quality. These are:

Reporting principles for defining report content

- Stakeholder inclusiveness
- Sustainability context
- Materiality
- Completeness

Reporting principles for defining report quality

- Accuracy
- Balance
- Clarity
- Comparability
- Reliability
- Timeliness



GRI Sustainability Reporting Standard content index


GRI Disclosures	Page number	Omitted
GRI Universal Standards and topic specific standards: 102 General Disclosures		
1, 2, 3, 4, 6	2	
5	http://www2.mmu.ac.uk/legal/constitutional-legal-matters/	
7, 8, 12, 13, 41	62-63	
9	38-39	
10		No significant change to the organisation
11		Not currently applied
14	7	
16	https://www2.mmu.ac.uk/about-us	
18	2,50	
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45	Manchester Metropolitan University Financial Statement 2017-18	
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49	33	
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GRI Universal Standards and topic specific standards: 103 Management Approach		
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Emissions (305) 1, 2, 3, 4, 5	25-26	
Effluents and waste (306) 2	44-47	
Environmental compliance (307)	17	
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Environmental management systems	33	
Ethical investment	31	
Resilience to climate change	34-35	
Sustainable buildings	36-37	
Travel plan management	40-41	


If you would like more information, or have any questions about this publication, please contact us.

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