

# Striving for a Sustainable Salford



**Environmental Sustainability Plan 2018-2030**

**Annual Report 2020-2021**

February 2022 version 1.0



University of  
**Salford**  
MANCHESTER

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# Our Mission

By pioneering exceptional industry partnerships we will lead the way in real world experiences preparing students for life.

As a civic institution, our mission is to:

- / Educate the next generation of modern industrialists, innovators, creators, entrepreneurs and leaders
- / Develop the skills and knowledge needed to capitalise on the next industrial revolution
- / Work in collaboration with public and private sector partners to address local and global economic and societal challenges

# Our Vision for Sustainability

By embedding sustainability in all aspects of University life, we will enable our University community to have maximum beneficial impacts for society and environment.

# The Sustainable Development Goals

The Sustainable Development Goals, or Global Goals, are a call for action by all countries to promote prosperity while protecting the planet. We are aligning our Environmental Sustainability Plan to the Global Goals by mapping each area to the relevant goals.



# Executive Summary

This year we launched our new [Environmental Sustainability Plan](#) which consolidates our existing action towards environmental sustainability and focuses on our target to become Net Zero Carbon (NZC) by 2038. Through this we will seek to build on our current progress and challenge ourselves more.

At the University of Salford we recognise our responsibility, and our opportunity, to have a positive impact on society. We've always played a major role in improving the lives of our local communities, and today we take this challenge more seriously than ever. Our research is focused on meeting the four grand challenges of the Industrial Strategy: Data and AI; Clean Growth; Future of Mobility; and Ageing Society.

As demonstrated by our signatory to Race To Zero, we advocate for a healthy, resilient, zero-carbon recovery that prevents future threats, creates decent jobs, and unlocks inclusive, sustainable growth.



This report summarises our environmental sustainability performance while giving the context and narrative along with our future plans. Our environmental performance in 2020-21 continues to be affected by the impacts of Covid-19 with less than expected energy consumption and waste generation. We continue to take forward learning and good practice in our identification of opportunities to drive towards environmental sustainability. We also continue to deliver projects that will reduce carbon emissions and advance us towards net zero carbon such as improved energy management controls, waste reduction, increasing the use of electric vehicles in our fleet and improving energy efficiency in lighting and equipment. We maintained ISO 14001 and ISO 50001 certification for our Environmental and Energy Management System and were re-awarded a Green Flag Award for our campus. We launched our participation in the Hedgehog Friendly Campus scheme this year, receiving a bronze award.

This year we completed the installation of our Nature-based Solutions (NBS) Living Lab on campus as part of the Greater Manchester Ignition project. The Living Lab provides a 'live' space that showcases a wide variety of NBS technologies and climate mitigation solutions using real time data as evidence for the environmental and economic benefits. The Living Lab is located on the University's main campus at Peel Park and includes: a rain garden, living wall, green/blue roof and sustainable urban drainage system (SuDS) for street trees.

In 2020 we joined the COP26 Universities Network, the primary engagement route for UK universities into the UN Climate Change conference in Glasgow in November 2021. Work has focused on maximising this engagement in the build up to COP26 resulting in us securing high-profile participation in international forums, discussion panels, and multiple seminars and conferences. We aim to use this platform to increase the profile of the excellent contributions the University is making through research and knowledge exchange around climate change but also to increase awareness and support sustainable behaviour change at the University in the build up to COP26 and beyond.

Post-COP26 and longer-term, we have the opportunity and potential to deliver real-world solutions for climate change mitigation and adaptation, building on both our well-established and developing areas of expertise including energy efficiency, Nature-based Solutions, environmental research, disaster resilience and sustainable homes. Our focus on industry and strategic partnerships is attracting both industry leaders and start-ups to work with us.

'Green Recovery' is a core theme of our new Innovation Strategy and provides a structure with which to pro-actively develop and pursue opportunities arising from the global focus on climate change.

Our aim is to practice what we preach. We have some incredibly impactful research going on at Salford in climate change mitigation and adaptation. We want to ensure we reinforce that through a sustainable campus operation and empowering our colleagues and students and contribute to a more sustainable Salford, Greater Manchester and beyond.

Our commitment to NZC requires us to substantially improve the energy efficiency of our buildings, increase the generation of renewable energy onsite and invest in off-site renewable energy. Our Campus Masterplan, a 240-acre major regeneration project created jointly in collaboration with Salford City Council and 5plus architects which will be delivered over the next 20 years, has sustainability at its core with a clear defining vision for Salford Crescent to be an exemplar showcase for sustainable design. We have already started to realise this vision with our new School of Science, Engineering and Environment Building, due to open in 2023, being all-electric with roof mounted photovoltaic panels providing renewable energy. We have also initiated the move to zero carbon in our University vehicles with over 20% of our fleet of vans now fully electric and an electric replacement plan in place. Over the next two years we will be developing and initiating a heat decarbonisation plan and updating our energy efficiency plan for our entire estate.

The University's Net Zero Carbon ambition will not just be achieved through our buildings and infrastructure; our people are essential for success. We need to embed consideration of carbon and environmental issues within University decision making at all levels. We recognise that scope 3 emissions form a significant proportion of the University's carbon impact. We have recently begun formally reporting on our scope 3 emissions and implementing measures to reduce these in sustainable travel, both commuting and business travel, as well as in sustainable purchasing.

# Environmental Management



## Our goal

To meet our environmental compliance obligations, protect the environment in which we operate our estates and facilities, and prevent pollution by reducing and eliminating pollution sources

## Progress

We have maintained our certification for EcoCampus Platinum, ISO 14001:2015 and ISO 50001:2018 standards with a successful surveillance audit on our Environmental and Energy Management System. A major nonconformity was identified through internal processes related to a potential breach in waste management legislation; however, the breach in legislation was avoided and corrective action implemented to prevent a reoccurrence. No pollution incidents have occurred on campus. Further details on progress towards our EEMS objectives can be found in this report.

## Performance

- EcoCampus Platinum, ISO 14001:2015 and ISO 50001:2018 certification maintained (October 2020)



- One major non-conformity related to a breach in compliance obligations
- Zero pollution incidents

## Future Plans

- Maintain EcoCampus Platinum, ISO 14001 and ISO 50001 certification with successful surveillance audit in November 2021



# Energy & Water

## Carbon



### Our Goal

To reduce the energy and water consumption of our buildings to meet the targets as established in the Energy, Water and Carbon Management Plan and overall aim of Net Zero Carbon by 2038

### Progress

This year our energy consumption continued to be impacted by Covid-19 with less than expected electricity consumption due to reduced activity on campus, particularly during the lockdowns in 2020 and 2021; however we have seen an increase in gas consumption partly due to lower temperatures but also due to increased heating demands as a result of increased ventilation for Covid safety measures. The result of this has increased energy consumption overall slightly compared to the previous year. We have continued to identify and eliminate areas of energy wastage and determine opportunities for efficiency improvements. We have completed comprehensive energy surveys on the majority of our significant energy using buildings. This information will help inform our net zero carbon plan.

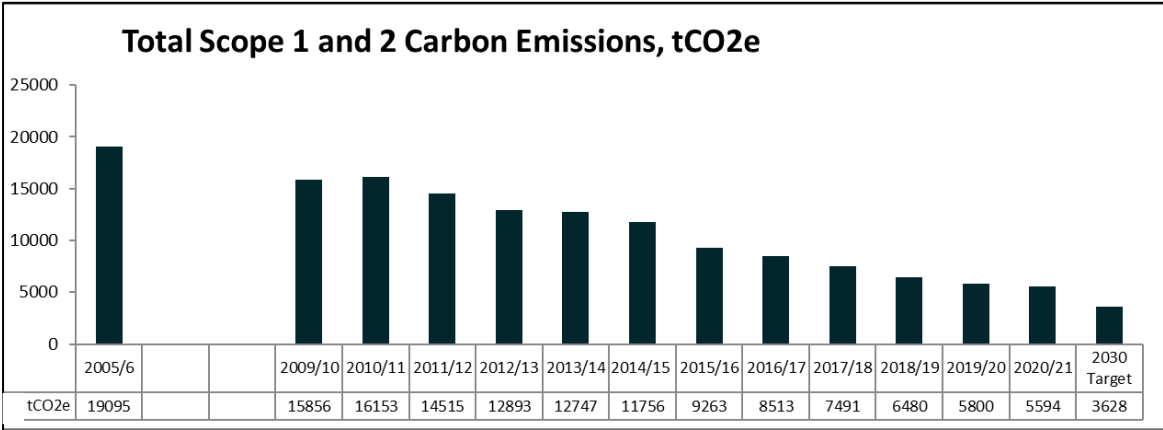
A key project implemented this year was to further improve monitoring of energy through an upgrade on the front-end of our Building Management System (BMS). This will enable significant improvements for optimising building controls as well as provide better monitoring data to support energy management. This has been delivered alongside recommissioning of the BMS and control improvements in a number of buildings. Lighting and control upgrades also continue to be rolled out across campus.

Although overall energy consumption has increased slightly, due to grid decarbonisation and reductions, scope 1 and 2 carbon has decreased since the previous year. We continue to monitor and report on scope 1 and 2 but have also this year published our first scope 3 emissions report (updated for 2020/21). This acknowledgement and monitoring of these emissions is an important step on our journey to Net Zero Carbon.

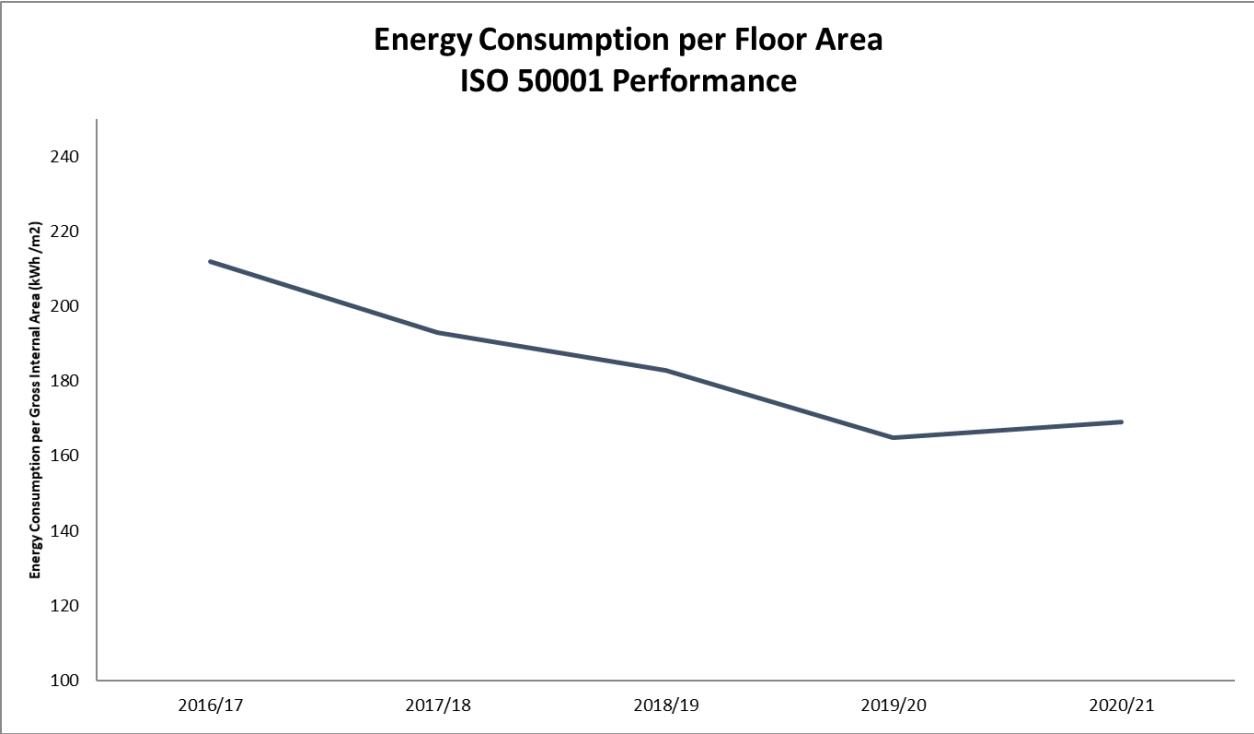
### Performance

- By the end of academic year 2020/21 our scope 1 and 2 carbon emissions had reduced by 71% compared to our baseline in 2005/6.

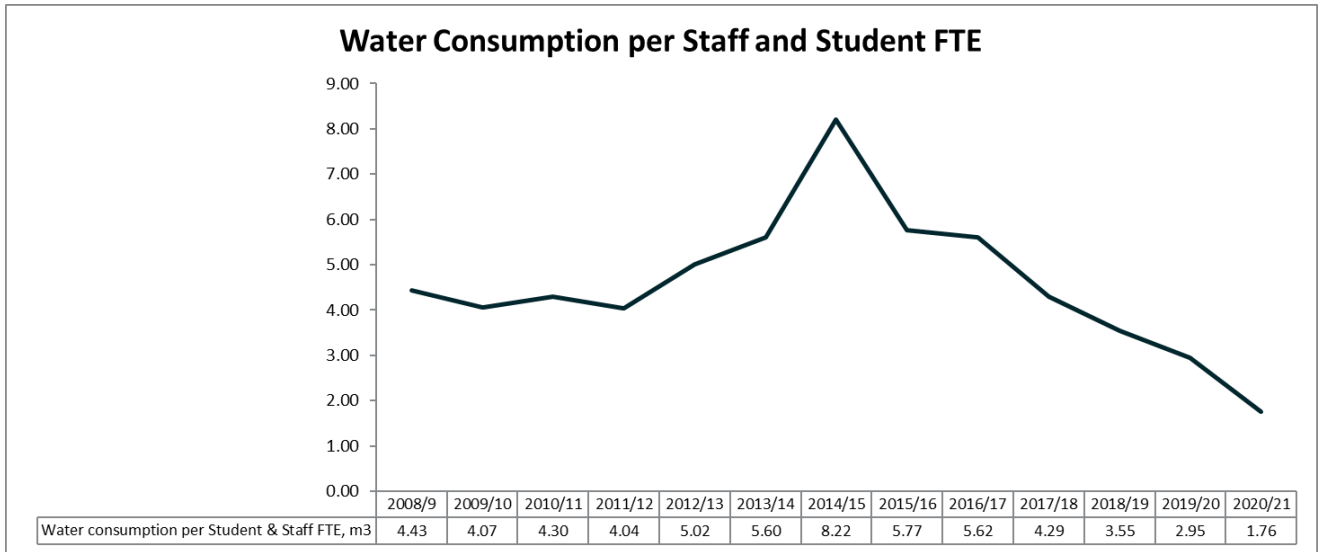




- Energy consumed by gross internal floor area (this is from metering data and excludes construction and smaller supplies) - improved by 20% compared to our baseline in 2016/17 which is very close to our 2030 target. Over the next 12-18 months we will review this target in the context of our Net Zero Carbon plan and forecasted consumption.



- Percentage reduction in water use (per staff and student FTE) from baseline - decrease due to reduced activity on campus



- Publication of a [scope 3 carbon emissions report \(update for 2020/21 in progress\)](#)

## Future Plans

- Develop our initial Net Zero Carbon Roadmap and Buildings Decarbonisation Plan
- Implement further water submetering and monitoring
- Update our Scope 3 Carbon Emissions Report and explore targets

**6** CLEAN WATER AND SANITATION



**7** AFFORDABLE AND CLEAN ENERGY



**13** CLIMATE ACTION



# Waste Management



## Our Goal

To apply the principles of the waste hierarchy to prioritise reduction, reuse and recycling to reduce the impacts of waste management and eliminate avoidable single use plastics on campus

## Progress

Our waste generation continued to be impacted by Covid-19 with less than expected waste generation due to reduced activity on campus, particularly during the lockdowns in 2020 and 2021. The total operation waste sent for disposal was 65% less than the baseline year of 2018/19.

The closing of Technology House provided an opportunity to reuse, directly by the University but also the demolition contractors. A total of just over 3 tonnes of items were reused amongst local community and organisations including the original street signs which were donated to the Street Museum. In preparation for the move from Newton to the new School of Science, Engineering and Environments Building, a variety of technical equipment has also been donated or reused through partners.

The amount of waste recycled increased slightly to 44%. The implementation of food waste recycling was delayed due to the decrease in food provision on campus due to lockdowns. This is expected to be implemented in 2021/22.

Our construction waste varies significantly dependent on the capital projects in progress on campus. This year we have three major projects underway, including the demolition of a building so construction waste is relatively high. Separate targets for diversion from landfill are set for each project but the overall diversion from landfill and recycling rates for all projects are shown below.

Our goal to eliminate single use plastics on campus by 2022 has also been impacted by Covid-19 with an increase in disposable use for some items across campus. However, towards the end of 2021 this was reduced as things started to return to normal. For example, in catering which is outsourced (managed by Chartwells), they have switched from plastic cutlery and straws to wooden or paper based. We have continued to work with colleagues across the University to map the consumption of single use plastics. From laboratories and workshops to catering and offices, our colleagues are finding different ways to eliminate any unnecessary use; even our Art Collection Team have found a way to reduce the use of single use packaging and championing this with our students. We have increased engagement through our campaign

**Plastic Free UoS**

Did you know that, on average, single use plastic items such as straws and coffee cups are for around 20 minutes, but can take over 400 years to degrade? Single use plastic harms our health, our planet, and our wildlife.

**That is why, the University of Salford has committed to eliminating all avoidable single use plastics from our campuses by 2022, in support of the PlasticFreeGM campaign.**

As part of that commitment, we're working with Surfers Against Sewage to become a Plastic Free Community.

#PlasticFreeUoS

**Want to find out more or get in touch?**

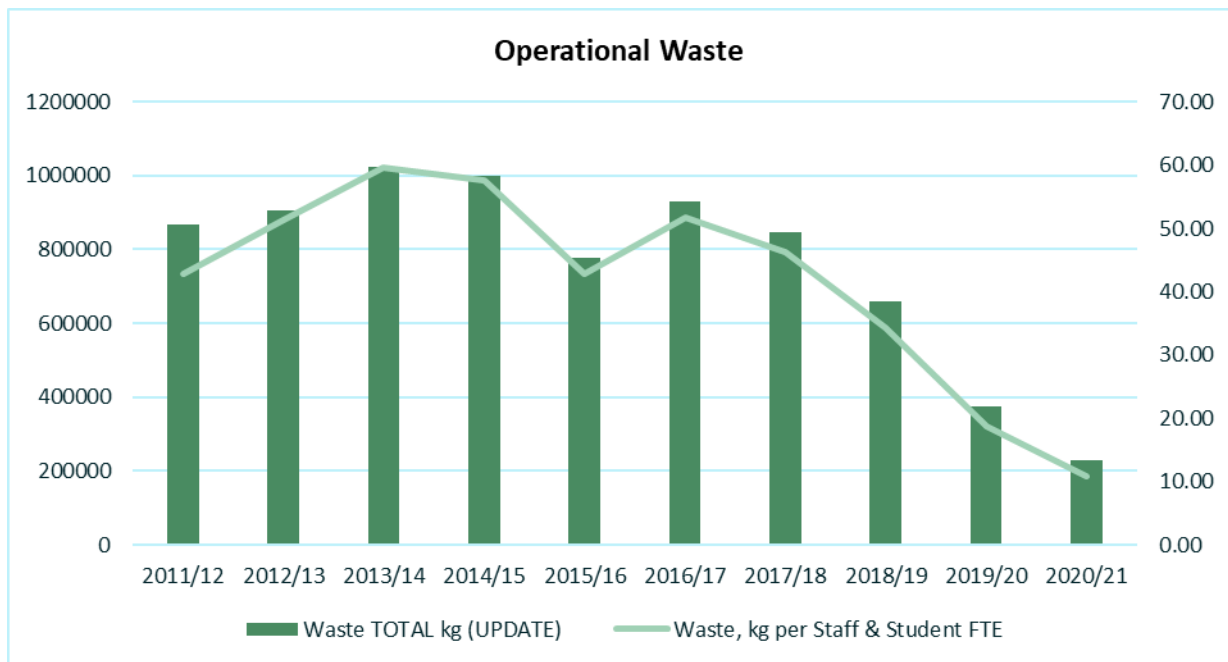
Twitter: [PlasticFreeUoS](#)  
Instagram: [PlasticFree\\_UoS](#)  
Email: [eps-sustainability@salford.ac.uk](mailto:eps-sustainability@salford.ac.uk)

**PLASTIC FREE**  
**UNIVERSITY OF SALFORD**  
**SURFERS AGAINST SEWAGE**

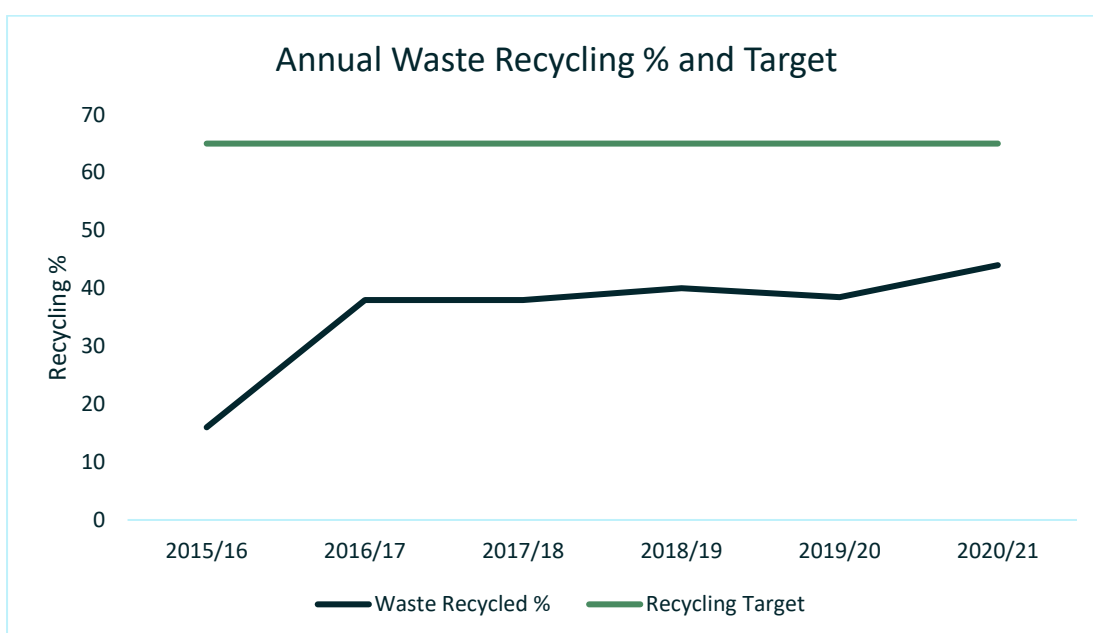
activity and continue to align with the Surfers Against Sewage Plastic Free Communities campaign which our participation in was initiated by one of our students.

## Performance

- Percentage reduction in waste from baseline – decrease by 39% compared by previous year (65% from baseline 2018/19)



- Percentage waste recycled – increase to 44%



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## Future Plans

- See our Waste Management Plan
- Further progress with eliminating avoidable single use plastics on campus



# Sustainable Procurement



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## Our Goal

To develop and apply an ethical and sustainable procurement system to ensure social and environmental impacts of purchases are appropriately considered

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## Progress

Despite limited progress in University level strategy development due to the impacts of CV-19, opportunities for action such as training and awareness raising (via the Community of Practice for Project Management) and consideration of sustainability within purchasing within Estates and Facilities has continued. All major purchases within Estates and Facilities include consideration of environmental sustainability and we are working to go further so that all purchases include this consideration.

The University's Scope 3 carbon emissions report shows that over half of the University's carbon emissions are from procurement. In line with our commitment to minimise scope 3 carbon emissions as much as possible in the drive towards net zero carbon, we know there is significant opportunity to address this and to obtain more social value through our procurement processes. We are currently using the UK Government Flexible Framework to guide our action; however, will be reviewing this going forward in context of higher education sector and private sector progress in this area.

We continue to work with our catering partners, Salford operated by Chartwells, in delivering our Sustainable Food Policy. In September 2021 Chartwells at University of Salford were finalists in the Waste 2 Zero Food Service Waste Management and Prevention Awards for their work to reduce food waste during lockdown including donations to local charities of food that would have been wasted over lockdown, implementing the Too Good Too Go App, their partnership with Growing Togetherness, a local community garden and allotment and providing free herbs to snip and takeaway on campus.

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## Performance

- Flexible Framework Self-Assessment – no change
  - Reviewing Estates & Facilities Invitation to Tenders for sustainability - ongoing
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## Future Plans

- Sustainable Procurement Strategy and Plan development
- Sustainable Food Policy development



# Sustainable Construction



## Our Goal

To ensure sustainability is a core principle of the Estate Masterplan by embedding sustainable construction practices and performance specifications into plans for new buildings and refurbishments

## Progress

Significant progress has been made this year on the construction of three new buildings at University of Salford as part of the Salford Crescent Masterplan.

The four-storey, 15,550 square metre Science, Engineering and Environmental Building will be occupied by the University's departments of Robotics, Built Environment, Civil, Aeronautical and Mechanical Engineering, Computer Science and Networking, Human and Natural Science and The Morson Maker Space. The SEE building will serve as an exemplar model of the University's commitment to its industry collaboration strategy, which is designed to facilitate students, academics and industry partners working together on cutting edge industry facing projects. The building will incorporate high sustainability credentials; it will be fully electric powered, supported by 154 roof mounted photovoltaic panels which will provide renewable energy. This will support the University's transition to net zero carbon. SEE building is due to be completed in 2022.

Energy House 2.0 is a new £16M facility will investigate the future of housing, looking at issues such as off-site construction, smart homes, and energy use. It builds on the work Salford has already done with Salford Energy House, a project which has enabled key changes to UK housing stock to save energy. The laboratory will contain two environmental chambers with the ability to achieve temperatures of between -20°C to +40°C and simulated wind, rain, snow, and solar light. The facility will target a global market, with environmental conditions of 95% of the world's population able to be replicated in the facility. Energy House 2.0 is due to open in 2022, will be a major research facility for the UK helping homes of the future bring the UK to net zero carbon quicker and help alleviate fuel poverty. Energy House 2.0 is on track to meet BREEAM Excellent.

The new North of England Robotics Innovation Centre (NERIC) is a £16 million facility serving as a hub for small to medium-sized industries (SMEs) looking to design, test and validate innovation in robotics and automation specialisms. The centre will offer SME's a one-stop-shop for developing and applying robotics and automation alongside other innovative digital technologies into their business. It will offer access to a purpose-built facility, specialist equipment and innovation support services that support new and improved applications and products to be taken forward. Focus areas for the facility will include robotics for intelligent infrastructure, digital automation and supply chain improvement. Working across a range of sectors including robotics and automation, the requirements of net zero, healthcare technologies, vehicle automation and the development of smart cities. NERIC is due to open in late 2022. This year the site has been prepared with the demolition of our vacant Technology House building. During the demolition 96% of materials were recycled. We also donated over 3 tonnes (over 100 items) to local charities and small businesses.



This included some of the original street signs to the historians at the Street Museum. NERIC is on track to reach BREEAM Excellent including low carbon and energy efficient design features and enhancements to the ecology of the site.

The University recognises the opportunity for sustainable development through the Campus Masterplan and has strongly supported the development of the Salford Crescent Masterplan Sustainable Development Strategy. This Strategy details how the Masterplan will lead the way to carbon neutrality with sustainability placed at the heart of new development proposals, creating sustainable transport and infrastructure, ensuring climate resilience, increasing biodiversity, creating healthy streets and public realm and developing highly sustainable and environmentally friendly buildings. Our focus is now to ensure that any development under the Masterplan is delivered in line with the aims of the Sustainable Development Strategy and that our own Sustainable Construction Policy, supporting processes and project management facilitates this. We recognise we cannot rely on a commitment to BREEAM alone to achieve this.

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## Performance

- The new School of Science, Engineering and Environments building, Energy House 2.0 and North of England Robotics Innovation Centre all on target for BREEAM Excellent rating.



## Future Plans

- Review and update of the University Sustainable Construction Policy
- UoS Energy Design Standard Review
- Consideration of Masterplan and existing estate within our Net Zero Carbon Roadmap and Buildings Decarbonisation Plan

**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



**11** SUSTAINABLE CITIES  
AND COMMUNITIES



**13** CLIMATE  
ACTION



# Travel & Transport



## Our Goal

To develop a travel plan which encourages alternative methods to single-occupancy car journeys and minimises the environmental impact of the University fleet and business travel

## Progress

In Autumn 2020 an E-scooter trial was launched in Salford, running initially for one year. The trial involved the provision of Lime e-scooters for hire, starting with a spatial focus on the University campus and MediaCityUK, and subsequently expanding to cover a larger area of Salford.

In late 2020 we launched an E-bike Hire Scheme. This scheme which offers an initial 4 week free hire of an electric bike for University of Salford staff. By the end of July 2021 the scheme has had over 20 hires despite being impacted by the CV-19 lockdowns.

During 2020/21, the Estates and Facilities invested in electric vehicles as replacements for existing fleet at the end of its useful life. The Division now has 5 electric vans and a low carbon vehicle purchasing policy in place.



The provision of electric charge points in University car parks decreased slightly this year due to decommissioning of one of the charging stations for technical reasons; however, it is planned to increase the number of charging stations in 2021/22 and an Electric Vehicle Strategy to be developed which will include review and planning for charging.

The Covid pandemic has significantly impacted how students and staff commute to the University. While we are yet to determine exactly how these changes will impact long term, we anticipate that

reductions in commuting will be realised through increased agile working. We plan to complete a Travel Survey within the next two years to evaluate. During the pandemic the country has seen increases in cycling. At the University we have seen a large increase in membership of our Cycle User Group and ad hoc information suggests an increase in the numbers cycling to campus.

Business Travel has also been significantly impacted by the pandemic. The scope 3 carbon emissions from business travel have reduced by 10 times from pre-pandemic 2018/19. Further information can be found in the University 2020/21 Scope 3 Carbon Emissions Report.

In summer 2021 we completed the review and update of our Sustainable Travel Plan, an enabler for our Environmental Sustainability Plan, Net Zero Carbon target and our Campus Masterplan. Its package of measures, initiatives and targets will help us to reduce the environmental impact of the travel we generate from all modes of transport. As we move to new ways of working from the Covid-19 pandemic the plan will support our staff, students and visitors to choose sustainable travel modes.

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## Performance

- Published Sustainable Travel Plan
- Number of cycle parking spaces current levels maintained
- Number of electric vehicle charge points on campus current levels slight decrease
- Percentage of electric vehicles in Estates & Facilities fleet increased (20%)

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## Future Plans

- Sustainable Travel Plan Implementation
- Support launch of GM Bike Hire Scheme provision on campus
- Increase percentage of University Electric Vehicles
- Increase Electric Vehicle Charging Points on campus
- Cycle Friendly Employer Gold Award

**3** GOOD HEALTH  
AND WELL-BEING



**11** SUSTAINABLE CITIES  
AND COMMUNITIES



**13** CLIMATE  
ACTION



# Biodiversity



## Our Goal

To protect and enhance the natural habitats and biodiversity on the University estate

## Progress

Despite the impacts of CV-19 and limited attendance on campus of some teams we have continued to manage the University campus to encourage natural habitats and biodiversity. We were delighted to achieve a Bronze Hedgehog Friendly Campus Award which included surveying the campus for hazards and habitats for hedgehogs, putting in actions to reduce and increase these accordingly such as litter picks and, with the help of our Maker Space team, even built and installed our very first Hedgehog House!

The Maker Space have also supported our Tree Trail initiative in partnership with the Peel Park Ranger Team with the design and supply of physical signage for the trails which makes them more accessible and visible.

We have also progressed with the installation of our community garden space on campus. We have now prepared the ground and ready for installation of some accessible planters. We are looking forward to engaging to the University community with the support of our Organisational Development team to start using and further develop the space.

Together with our campus Landscape Team we have worked hard to maintain our Green Flag Award during 2020. The Green Flag Award scheme recognises and rewards well managed parks and green spaces, setting the benchmark standard for the management of recreational outdoor spaces across the United Kingdom and around the world. Despite CV-19 impacting on resources, our Landscape Management Team have worked hard to ensure our campus green spaces remain accessible and attractive to our local community to support physical activity and mental wellbeing, the value of which has been particularly highlighted during the pandemic as well as encouraging biodiversity. Our Landscape Management Plan details our full approach.

This year has also seen the installation of our Nature-based Solutions (NBS) Living Lab on campus as part of the Greater Manchester Ignition project. The Living Lab provides a 'live' space that showcases a wide variety of NBS technologies and climate mitigation solutions using real time data as evidence for the environmental and economic benefits; it is open for both public and stakeholder engagement. The Living Lab is located on the University's main campus at Peel Park and includes: a rain garden, living wall, green/blue roof and sustainable urban drainage system (SuDS) for street trees. Using the facility, researchers and businesses can analyse the impact of green infrastructure in a real-world retrofit urban environment. One of the main deliverables of IGNITION NBS Living Lab is to inform innovation in green infrastructure through data. This is ensured through the inherently



Figure 1 Hedgehog House in undergrowth on campus



designed monitoring system integrated within the installation and includes monitoring for elements of biodiversity. The green wall includes bird and insect boxes as well as a pollinator section.



## Performance

- Green Flag Award achieved for 2020
- Bronze Hedgehog Friendly Campus Award



## Future Plans

- Silver Hedgehog Friendly Campus
- Green Flag Award 2021/22

**3** GOOD HEALTH  
AND WELL-BEING



**11** SUSTAINABLE CITIES  
AND COMMUNITIES



**15** LIFE  
ON LAND



**17** PARTNERSHIPS  
FOR THE GOALS



# Community Engagement



## Our Goal

To embed care for the environment in the culture of our organisation as part of our goal to be a sustainable University and empower and motivate the whole University community to support our policy and strategy through appropriate education and communication

## Progress

Despite the interruptions to on campus activity we have continued with our communication and engagement programmes for environmental sustainability.

We ran a successful Go Green Salford event (February/March 2021) – a sustainability themed month of online events and social media campaigns which resulted in over 1000 interactions. This included some fantastic events on sustainable fashion, single use plastics and wildlife and conservation. We used this opportunity to provide a platform for some of our students to host events and guest blog in areas they are passionate about.



We have also supported national campaigns including Hedgehog Awareness Week, Earth Week, Bike Month, Food Waste Action Week, Fairtrade Fortnight, Plastic Free July, It's Time and Cycle September.

This year we have had students directly involved in supporting our campaigns. In addition to Go Green Salford, student volunteers from across the University including the Wildlife Society, Environment and Geography and Fashion Image Making and Styling courses have contributed to our campaigns for our Hedgehog Friendly Campus programme and Plastic Free UoS.

We have also collaborated with colleagues in our Maker Space, School of Arts, Media & Creative Technology, School of Science, Engineering and Environment, Business School and Arts Collection as well as external partners such as the Friends of Peel Park and Ranger Team and Salford Museum and Art Gallery.

Since launching in 2020, 500 employees have completed our Environmental Sustainability e-learning induction module. We will continue to recommend this as part of the University induction package and encourage existing staff to revisit this as a refresher periodically.

In 2020 we joined the COP26 Universities Network, the primary engagement route for UK Universities into the UN Climate Change conference in Glasgow in November 2021. Work has focused on maximising this engagement in the build up to COP26 resulting in us securing high-profile participation in international forums, discussion panels, and multiple seminars and conferences. We will look to expand on this in the build up to COP26 towards the end of 2021.

This year also saw the launch of the Salford Climate Action Board which the University is an active member of. The climate action board was established to bring together stakeholders from across the council and external organisations to oversee projects and programmes associated with meeting the city’s carbon neutral target. There are several subgroups of the board to do more detailed work on various subject areas, including one for culture change and engagement which the University as a large employer and student body will have significant contribution to.

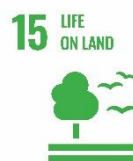
## Performance

- Number of staff/students influenced in Green Impact – on hold for 2020/2021
- Number of staff/students engaged with sustainability campaigns and events: 9% increase on previous year

Number of staff/students engaged with sustainability campaigns and events	2019/20	2020/21
	1378	1499

## Future Plans

- Re-launch Green Impact scheme in 2021/22
- Go Green Salford 2022
- Continue to support Salford Climate Action Board





# Teaching, Learning & Research



## Our Goal

To support our University Strategy in providing real world experiences preparing students for life and supporting our research to provide real world solutions to tomorrow's challenges

## Progress

The Environmental Sustainability Team has continued to deliver a number of guest lectures across the School of Science, Engineering and Environment, Salford Business School and School of Arts, Media and Creative Technology throughout 2020/21 sharing real world experience and challenges in environmental sustainability. The Environmental Sustainability Team has also provided and supported live briefs in several subject areas including the business, arts and media as well as environmental management. To support colleagues in embedding sustainability into curriculum an Educating for Sustainable Development Microsoft Teams site was created to share resources and enable discussion.

In March our Collaboration: Learning and sharing together project was Highly Commended in the Next Generation Learning and Skills category at the Green Gown Awards which took place virtually this year. Established in 2004, the Green Gown Awards recognise the exceptional sustainability being undertaken by colleges and universities and has become the most prestigious recognition of best environmental practice within further and higher education.



The environmental impacts of the fashion industry are enormous, and Fashion Image Making and Styling (FIMS) students were set the 'Caring Sharing' brief which addresses this and empowered students to have the confidence to stand up for the issues they believe in. The brief also equipped them with the capabilities they need to progress sustainable solutions within the fashion industry.

Students worked together in groups of 8 or 10 and were tasked with creating a full 'look', with zero-waste and ethical environmental consciousness at its core. Their work was exhibited for a month as part of 'Go Green Salford' and showcased everything from trainers with the soles carved into patterns to spread the message, to patchwork blankets made from boiler suits from oil rigs, and luxury sculptural dresses made out of plastic waste. The students also re-created the iconic Louis Vuitton logo as a green party collaboration. One group took it to the next level, making mini magazines and contacting

a local school, teaching schoolchildren how to reconnect to core skills such as sewing and dying, and spreading the environmental message beyond the University.

Also shortlisted in the same category was our Extinction Rebellion Takeover, where Salford School of Arts, Media and Creative Technology and Design Manchester 2019 joined forces with Extinction Rebellion's Art Group. The event saw a day of debates and practical workshops, focusing on current environmental topics and how creative thinkers can make a difference.

The Living Lab provides a 'live' space that showcases a wide variety of NBS technologies and climate mitigation solutions using real time data as evidence for the environmental and economic benefits; it is open for both public and stakeholder engagement. The Living Lab is located on the University's main campus at Peel Park and includes: a rain garden, living wall, green/blue roof and sustainable urban drainage system (SuDS) for street trees. Using the facility, researchers and businesses can analyse the impact of green infrastructure in a real-world retrofit urban environment.

The Living Lab has been welcomed by the business community who have used the facility to investigate and experiment how green infrastructure can be used in different environments. The Living Lab team is currently working with Barratt Homes and SEL Environment on a collaboration that involves developing innovative green infrastructure solutions for smart homes and commercial buildings. If successful, the roll-out will have a significant impact on the Greater Manchester residential and construction industry, as well as the retail sector, in particular that of superstores.



Post-COP26 and longer-term, we have the opportunity and potential to deliver real-world solutions for climate change mitigation and adaptation, building on both our well-established and developing areas of expertise including energy efficiency, Nature-based Solutions, environmental research, disaster resilience and sustainable homes. Our focus on industry and strategic partnerships is attracting both industry leaders and start-ups to work with us.

'Green Recovery' is a core theme of our new Innovation Strategy and provides a structure with which to pro-actively develop and pursue opportunities arising from the global focus on climate change.

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## Performance

- Four environmental sustainability guest lectures delivered, 450 students reached
  - Seven environmental sustainability live briefs/student projects supported, 13 students
  - Number of demonstrator environmental sustainability projects on campus – Ignition Living Lab (4 sites – living wall, tree pits, rain garden and living roof)
- 

## Future Plans

- Embed Sustainability into the University of Salford Strategy 2016-2021
- Further develop resources to support academic colleagues in embedding sustainable development into curriculum
- Further develop Green Recovery Innovation Strategy



We have the ability to contribute to all the Global Goals through our teaching, learning and research









# Appendix A



## Environmental Sustainability Performance



Objective	Key Performance Indicator	Baseline year	2018-19	2019-20	2020-21	Target/date	Performance 2020/21
<b>Environmental Management</b>							
Maintain ISO 14001 and ISO 50001 certification	ISO 14001 and ISO 50001 certification	N/A	Achieved certification	Maintained certification	Maintained certification	Maintain certification	Achieved
Reduce pollution risk (emissions & discharges) to land, water and groundwater	Number of pollution incidents	N/A	0	0	0	0 annually	Achieved
Maintain compliance with environmental legislation and other requirements	Number of major non-conformities related to a breach in compliance obligations	N/A	0	0	1	0 annually	Not Achieved
<b>Energy, Water &amp; Carbon</b>							
Reduce Scope 1 and 2 carbon emissions	% reduction of scope 1 and 2 carbon emissions	2005/06 19,095t	-66%	-70%	-71%	81% reduction by 2030	On Track
Improve energy efficiency	kWh energy consumed per m2 gross internal floor area	2016/17 212kWh/m2	183 kWh/m2	165 kWh/m2	174kWh/m2	155kWh/m2 by 2030	On Track
Reduce water consumption	L of water used per staff & student FTE (% reduction from baseline shown)	2018/19 3.55L/FTE	Baseline	-17%	-50%	NEW target 20% reduction by 2025 from 2018/19	Achieved
<b>Waste Management</b>							
Reduce waste disposal	% reduction in waste from baseline	2018/19 661t	Baseline	-43%	-65%	NEW target: 12% reduction by 2025 from 2018/19	Achieved
Increase waste recycled	% waste recycled	2016/17 38%	40%	39%	44%	New target: 65% by 2025	On Track
Eliminate avoidable single use plastics	Number of avoidable single use plastics removed	2019/20	N/A	Data not available	Data not available	Zero by end 2022	On Track

Objective	Key Performance Indicator	Baseline year	2018-19	2019-20	2020-21	Target/date	Performance 2020/21
<b>Sustainable Procurement</b>							
 Develop and embed sustainable purchasing policy in Estates	Flexible Framework Self Assessment All Estates tender evaluations to include sustainability	2016/17	N/A	65% complete	65% complete	Meet level 4 in all areas of the Flexible Framework	On Track
<b>Sustainable Construction</b>							
 Ensure sustainability considered within construction through implementation of the sustainable construction policy	% of construction projects meeting sustainable construction policy requirements	2018/19	N/A	100%	100%	100% of construction projects meeting sustainable construction policy requirements	Achieved
<b>Travel &amp; Transport</b>							
 Improve facilities for cyclists on campus	Number of cycle parking spaces	2016/17 410	410	362	362	500 cycle parking spaces on campus by end 2023	On Track
 Support use of Electric Vehicles by staff and students	Number of Electric Vehicle charge points on campus	2016/17 6	6	6	5	Increase number of EV charge points on campus by 2025	Behind Schedule
Increase use of Electric Vehicles on campus by Estates	% Electric Vehicles in estates fleet	2016/17 0%	0%	0%	20%	20% of Estates fleet by end 2025	Achieved
<b>Community Engagement</b>							
 Increase influence of Green Impact at the University	Number of staff/students influenced in Green Impact	2016/17	+156%	Programme deferred	Programme deferred	Increase in number of staff/students influenced	Behind schedule
Increase engagement with staff and students at the University with sustainability	Number of staff/students engaged with sustainability campaigns & events	2019/20 1,378	N/A	1,378	1,499 +9%	Increase in number of staff/students engaged	Achieved
<b>Biodiversity</b>							
 Maintain Green Flag Award	Green Flag Award	2018/19	Green Flag Achieved	Green Flag Achieved	Green Flag Achieved	Maintain Green Flag Award annually	Achieved