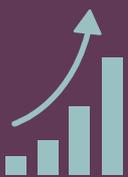




Sustainability Annual Report

2019/20



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What an exciting year 2019/20 has been for sustainability.

On the back David Attenborough's *Blue Planet* and Greta Thunberg's climate action strikes we saw a global commitment to reducing single use plastics and international recognition that global warming is reaching crisis point. UK government, local authorities and other universities started to declare a climate emergency setting themselves targets of reaching net zero emissions before 2050 (or earlier in some instances). At the University we seized the opportunity that came with this raised individual awareness to raise the profile of sustainability across the Institution, seeing a reemphasised focus and drive for sustainability from the Senior Leadership team, across professional services, through Faculties and down to students. Through changes to the existing sustainability governance structure there have been more opportunities for staff and students to engage and shape the University's sustainability agenda.

When the COVID-19 pandemic struck the University's operations changed overnight and we have had the opportunity to reap many environmental benefits. With staff working from home and students learning online the reduced presence on campus has resulted in lower energy consumption, a rare orchid emerging on north campus, roads being less congested and the introduction of segregated cycle infrastructure across the City.

The Sustainability team have pushed hard and through collaboration and partnership working have established a framework of policy, strategy and governance which sets the ambitions for delivery high, firmly establishing the University as an anchor Institution across the region and nationwide.

What the pandemic has taught us is that with changes in operations (some small, some significant) we have been able to deliver a more sustainable campus and our role as we move towards a more normal future is to look at how we can maintain this progress. The need to ensure that sustainability is embedded into our choices and decisions as we move forward is more important than ever and we now have the opportunity to ensure that these benefits are not short lived and form part of the University's recovery.

Acknowledgements

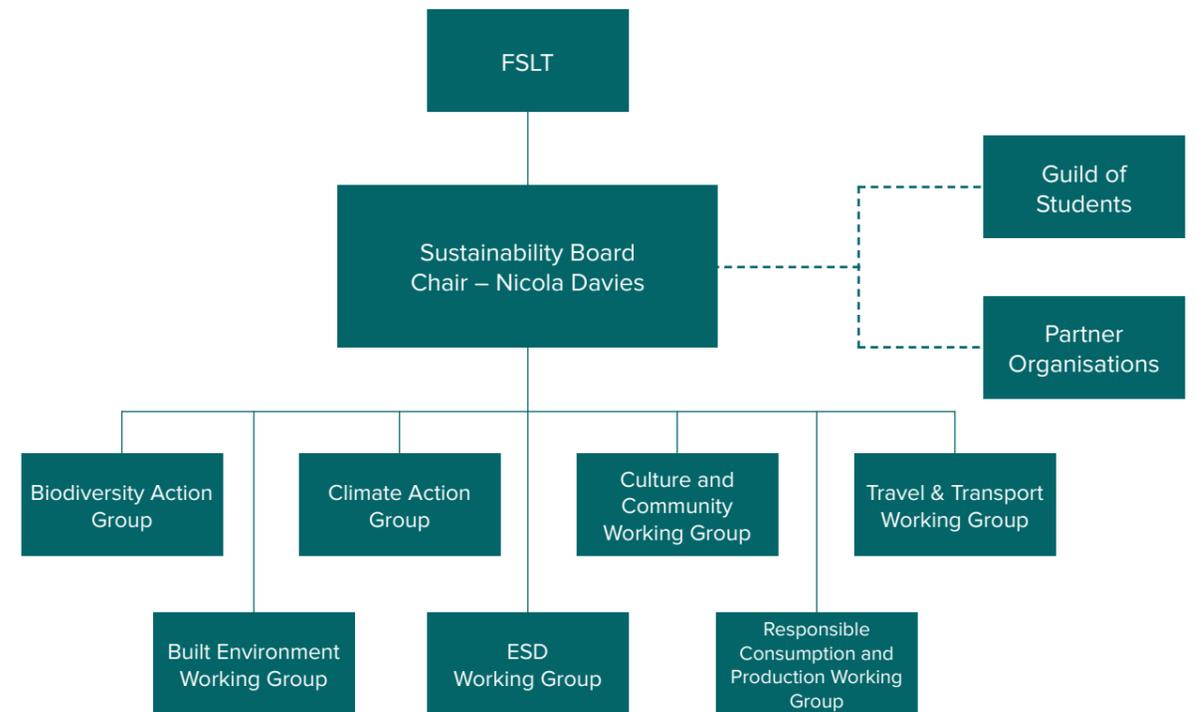
We would like to thank:

The Sustainability team, members of the Sustainability Board and providers of case studies for their contribution to the 2019/20 Sustainability Annual Report.

OUR FRAMEWORK

Enhanced governance

With growing momentum for responding to the global challenges of sustainability, and changes within the University's management structure the Sustainability team seized the opportunity to reshape the strategic direction of sustainability and engage with the wider University community. The new Sustainability Governance Structure includes a Formal Senior Leadership Team (FSLT) strategic lead for Sustainability and an FSLT lead, Sustainability lead, Guild Officer, and Academic Chair for each of the working groups. Strategic oversight of the delivery of our sustainability commitments is now provided by the Sustainability Board, which reports directly to the FSLT. The Board is chaired by the Director of Finance, who is the FSLT strategic lead for Sustainability, and its membership includes staff and student.





Our commitment

Alongside the change in governance the University committed to placing sustainability at the heart of its decision making. In early 2020, the Vice-Chancellor, Professor Dame Janet Beer, and President of the Guild of Students, Adnan Hussain reinforced this commitment by signing an accord committing to the UN Sustainable Development Goals (UN SDG's). However, whilst the global goals offer a clear direction for our efforts, achieving these goals demands collaboration on a global scale. The University will look to collaborate with regional, national and international partners in support of the goals and share best practice in this area.

By signing the UN SDG Accord the University demonstrates its commitment to sustainability and builds on existing activities and research and education strengths in this area. The case studies detailed in this report highlight the difference we are making across the SDG's. The *How do we contribute to the SDG's report* (due to be published later this year) will go into more detail on the University's impact across all areas. Staff interested in influencing what a fully SDG engaged University of Liverpool would look like and the steps we need to take to get there can see the University's bespoke SDG mapping toolkit for more information.



What's been delivered?

Work to deliver against the University's commitments on sustainability is led and coordinated by the Sustainability team within the Estate Management Division of Facilities, Residential and Commercial Services (FRCS).

The Sustainability team is responsible for the management of the University's ISO14001 accredited Environmental Management System; ensuring the University complies with relevant environmental legislation and continually reduces its environmental impacts and improves environmental performance.

Underpinning our activity, a new Sustainability Policy has recently been signed off by Council setting out the University's sustainability principles. The Sustainability Strategy, setting out our ambitions and how we will look to achieve them, is going through the approval process with a planned launch spring 2021. This will be followed by the Sustainability Action Plan which will detail how we will embed sustainability and deliver our core objectives and targets. There will be a number of key documents sitting underneath the Sustainability Strategy, including: the SDG Strategic Plan, Climate Adaptation Plan, Carbon Management Plan and Travel Plan.

The annual report provides a retrospective of our performance over the previous academic year and is a reflection of our achievements against the strategy, actions and targets that were in place at that time. As this 2019/20 report highlights, work in this area is not isolated to the Sustainability team and valuable contributions to improving the sustainability of the University are made by staff and students from across the Faculties and professional services.



Aquaponics system on Guild roof

SUSTAINABILITY IN A SNAPSHOT

<p>Zero Waste to landfill</p> 	<p>Student/Guild led SDGs and the Curriculum workshop at teaching and learning conference</p> 		
<p>Phase 1 Habitat Survey across all sites</p> 	<p>New Sustainability Governance Structure</p>	<p>Signed UN SDG Accord and submitted SDG Accord Report</p> 	<p>Commitment to be FOSS L FREE by 2022</p>
<p>Ran several events as part of Welcome Week and inclusion of SDG workshop at Making an Impact</p> 		<p>More than 400 student volunteers engaged in sustainable activities</p> 	

<p>Hedgehog Friendly Campus Bronze Award</p> 		<p>Hosted a youth summit event with over 200 young people (from primary to HE) which was filmed and shown at the First Liverpool City Region Environmental Summit</p> 	
<p>Living Wage Employer</p> 	<p>New Sustainability Policy approved by Council</p>	<p>SDG Student Curriculum audit</p> 	
<p>14 departments with Athena SWAN (Bronze to Gold)</p> 		<p>ISO14001 Accredited Environmental Management System</p> 	
<p>40% increase in active modes of transport</p> 		<p>Over 1,165 volunteering hours carried out by staff as part of</p> 	

Our commitment

Types of Emissions	Emission Sources	Carbon Emissions	
		Tonnes of carbon equivalent (tCO ₂ e)	
		2018/19	2019/20
Scope 1 Direct emissions from activities	Gas and fuels Used to heat and operate our buildings	33,776 tCO ₂ e	34,958 tCO ₂ e
		Scope 2 Indirect emissions from our electricity use	Electricity Used for lighting, IT equipment, ventilation etc.
Scope 3 Indirect emissions associated with our supply chain	Water consumed	331 tCO ₂ e	305 tCO ₂ e
	Waste generated • On campus	42 tCO ₂ e	27 tCO ₂ e
	Business travel Air and rail booked through Key Travel	4,648 tCO ₂ e	2,758 tCO ₂ e
▲ Emissions measured	Waste generated • Construction projects		
▼ Emissions not yet measured and reported	Business travel • All other eg expenses, taxis		
	Staff travel Commuting to campus		
	Student travel commuting to campus		
	Procurement of goods and services (including construction projects)		



WHAT WE HAVE BEEN UP TO

This has been a busy year for the Sustainability team and as a small team we cannot always deliver all the initiatives we would like to. However, this year has provided us with the opportunity to review to our governance structure and tap into and utilise the fantastic amount of expertise and energy that exists across our academic, professional service and student community. Here are some of this years highlights!

Tackling climate change



The University is concerned about the climate crisis. Professor Ric Williams is leading a team conducting research into a wide range of issues linked to climate change. They are providing expert knowledge to develop new materials to cut carbon emissions, improve renewable energy technologies and inform governments about the state of our oceans.

- Future-proofing the UK's coastal energy supply - researchers are responding to the urgent need to predict the long-term impacts of climate change on Britain's shores by developing tools to assist the energy sector.
- Stephenson Institute for Renewable Energy - training the next generation of scientists, focusing on the physics and chemistry that will transform the future of energy efficiency, generation, storage and transmission.
- A changing climate and policy - our experts are informing policymakers about how human actions and the changing climate are affecting the delicate balance of our oceans.

Reducing health and social inequalities



Professor Dame Margaret Whitehead from the Department of Public Health and Policy, is leading a research programme that focuses on the social dimensions of ill-health. In particular it traces social pathways to and from health inequalities and what this means for developing more effective health and social policy. The programme explores not only the social causes of ill health, but also the adverse consequences of having a chronic illness, such as reduced income and employment chances, social isolation and stigma in relation to specific tracer conditions.

With international collaborators, her studies are looking at the ways in which health and social welfare systems themselves reduce or exacerbate the adverse consequences of ill-health and what can be done to improve the situation. Most recently in Professor Whitehead and colleagues published a paper using longitudinal data from the Millennium Cohort Study, following up more than 10,000 children born in the UK in the year 2000.

Their analysis found that persistent poverty now affects one in five children in the UK. Any exposure to poverty was associated with worse physical and mental health outcomes. Crucially, policies that reduce child poverty and its consequences are likely to improve health in adolescence. This work prompted a parliamentary question, and official answer.



Hedgehog Friendly Campus



The University of Liverpool has joined the Hedgehog Friendly Campus scheme as part of a collaboration between Ness Botanic Gardens and the Sustainability team.

The scheme aims to raise awareness of the plight of hedgehogs while taking practical steps to improve habitats across university campuses. Having achieved bronze accreditation in their first year, the project team which includes enthusiastic staff and students, will now begin working towards silver accreditation by undertaking a number of actions and tasks aimed at improving the campus for these gentle and popular mammals.

Career Confidence for Women programme



This diversity initiative was developed with the aim of enhancing career prospects for our female students and to address the challenges employers face in attracting a diverse workforce.

The goal of the programme is not for participants to find a job with one of the employers involved, although this could be a welcome by-product in the future.

Extended Phase 1 habitat surveys



During April to November last year, the University went through its largest ecological assessment to understand biodiversity on campus.

An extended Phase 1 habitat survey of the site was carried out across University sites: main campus, Leahurst campus, Ness Botanic Gardens and Greenbank Residential Village. Under the survey, habitats were mapped, and features of ecological value recorded as target notes. Any evidence of protected or non-native invasive plant species were also be noted. In parallel with the extended Phase 1 habitat survey, a ground-based assessment of the trees and external inspection of buildings within the site was also undertaken to determine their suitability to support roosting bats.

The outcome of the ecological assessment work will be used by the Built Environment as a baseline for ecological assessment criteria as part of developing the university's own sustainable building assessment

Student volunteering



Student volunteering within the Green Guild remains popular - with applications for activities including the Roof Garden, Green Fingers, Gleaning, Ecobricks, Clothes Swap Shop, Curriculum Auditors, Green Impact Auditors, Student Switch Off Ambassadors, Sustainability Champions, Guild Schools, Litter Pickers for Hedgehog Friendly Campus and, of course, the ever-popular beekeeping.

Raising awareness of the SDG's is key to Guild activities and all student volunteers receive the 'Introduction to the SDGs' training. Students time, commitment and skills gained are recognised in their Higher Education Achievement Report (HEAR) accreditations.

In future, the Sustainability team will be working with the Green Guild and Student Support Services to consider how this program can be developed.

Climate strikes



With growing concerns about the threat of climate change the University, campus unions and the Guild of Students joined to support the Global Day of Action planned in response to the growing threat.

Staff and students from across the University took 30 minutes out of their day on Friday 20 September to coincide with the global school student strike. On the day there was the opportunity to engage with digital materials featuring examples of research undertaken to tackle climate change and University initiatives showing how it is trying to reduce its own environmental impact. Staff and students also had the option to join a climate protest in Liverpool City Centre.

Sustainable Business Challenge



With support from the Student Success team, 25 of our students participated in the two-day Sustainable Business Challenge, designed by Newcastle and Groningen universities, and co-delivered the University and Vrije University; giving all involved a chance to develop skills and contribute to future sustainability initiatives.

At the event, 100 students from different countries and backgrounds worked together to utilise their skills to generate ideas and applied a collaborative approach to proposing solutions.



Reducing energy consumption



The University has done a lot of work over the past year to reduce energy consumption on campus. This includes: CHP Energy Centre and Heat Network at Greenbank Student Village; sequencing controls added to improve efficiency of standby boilers in the main campus Energy Centre; and LED lighting replacements at Sydney Jones Library and the Sports Centre.

Future works will include expanding the LED lighting replacement scheme and implementing a heat meter replacement strategy to improve quality of energy analysis on campus.

Highway improvements



Throughout the COVID-19 pandemic there has been a significant increase in active travel. Harnessing the enthusiasm behind this modal shift the University strives to become a cycle friendly campus.

The University has been working with partners from Liverpool City Region Combined Authority (LCRCA) and Liverpool City Council (LCC) to ensure that our staff and students have safe cycle access between their home and the main campus.

A joint funding application has been submitted to the Department for Transport (DfT) Active Travel Grant to create a University cycle route running from Greenbank Residential Village to main campus. This new corridor will provide a car free route for staff and students living in south Liverpool and is an extension to the pop-up cycle lanes which have already been installed by LCC along part of the route as part of a multi-million pound scheme.

Additional discussions are also taking place with LCRCA, LCC and Knowledge Quarter partners to consider how cycle access can be improved into and around the Knowledge Quarter.

Integrating sustainability into the curriculum



We have found that identifying program modules which are delivering against sustainability and the SDG's is not as simple as looking for key words.

In some program's the SDG's have been embedded at the core of modules; for example, in 'Business and Enterprise in Psychology', groups of students are supported with start-up ideas, often focused on health, wellbeing and positive psychology, and in the Enterprise in Occupational Therapy module, student's entrepreneurialism is supported to create new products that focus on enhancing patient wellbeing and health.

To gain a greater understanding of the University's position, the Guild are delivering a project with student volunteers which seeks to identify links between existing modules and the SDG's. Project volunteers look to identify areas of best practice and opportunities for further development of the SDG's in their curriculum.

Relaxed mowing regime



Following the shutdown of campus during the COVID lockdown the University embarked on a trial of reduced mowing for three large grassland areas on the main campus. By reducing mowing it has allowed meadow vegetation to develop that in time will support a wide diversity of plant and animal species.

This large trial was initiated by the Biodiversity Action Group and extends pilot work by the Green Guild and Central Teaching Lab staff who created a small wildflower meadow close to the Materials Innovation Factory.



SMART Water



In a bid to reduce the use of harmful chemicals the Cleaning Services department has reviewed its use of cleaning products and made the decision to move towards the use of a smart water system. As a natural all-purpose cleaning and sanitising agent, Smart Water works for hours, after which point it converts back into water and oxygen.

Over the past year units have been installed on campus both within teaching spaces and halls of residences this includes: The Sherrington Building, School of Law and Social Justice, CTH/ CLT, Greenbank Village, Crown Place and Vine Court. We will be continuing to roll this scheme out further.

Liv to Give



In Autumn 2018 a staff volunteering framework, Liv to Give, was launched, allowing every member of staff three paid days per year to volunteer; providing great opportunity for staff to volunteer for activities which support the sustainable development goal.

So far, 1,165 hours of volunteering activities have been carried out by 113 colleagues across many areas such as crisis/poverty, culture, education and learning, fundraising, health, wellbeing and social care, people and communities; volunteering has such a positive impact staff are encouraged to use their time.

Under the framework the University supports a number of charities on an annual basis and almost £12,000 has been raised for our first set of Liv to Give charities. In 2020 the University supported Zoe's Place, Claire House and The Whitechapel Centre all of whom create a positive impact on one or more of the SDGs. Schools, Institutes and Departments are encouraged to hold at least one event each year to fundraise for one or more of our Liv to Give charities.

DecarboN8



The University of Liverpool is a partner institution in DecarboN8, an EPSRC funded network seeking to bring together business, government and academia across the North of England. We aim to create an innovation ecosystem and test bed environment which allows us to trial and accelerate the adoption of low carbon transport solutions.

In working across the North, the DecarboN8 network is looking to take a place-based approach recognising that different solutions might be needed for different types of areas – but also acknowledging that sometimes we might need this to be joined up and consistent in order to get benefits at scale.

Divestment



The University committed to sell its remaining £2.8m holdings in fossil fuel companies by July 2022, which represents 1.2% of the University’s investment portfolio. This decision was influenced by the Guild’s Fossil Free campaign and approved by the University’s Council in summer 2019.

The move to fully divest from fossil fuels builds on the University’s ethical investment policy introduced last year, which committed the University to exclude companies that derive more than 10% of their revenue from thermal coal and tar sands. This exclusion will now be broadened to cover all companies with significant revenues from fossil fuel extraction.

The original exclusions affected around £6.7m of the University’s investment portfolio, and the move to fully divest from fossil fuel extraction brings the total amount to be divested up to £9.5m (of which £9m relates to fossil fuels).



Green Guild and volunteers doing a litter pick

Liverpool Year of Environment



Liverpool City Region’s (LCR) Local Nature Partnership, Nature Connected, took the initiative and declared 2019 a focused Year of Action for the Environment. Activity for the year was loosely separated into eight environmental themes (air quality, climate change and resilience, green spaces, habitats and biodiversity, connecting and engaging with nature, health and wellbeing, sustainable energy, reduce waste, and water) and culminated with a summit event in the autumn.

The University led the Further and Higher Education sector by setting up a steering group to collate all the groups planned activities for the year. Amongst the many activities delivered throughout the year by the University, two key achievements were the Internship Program, which placed six of our students in organisations across the across the city region, including two based at here at the University of Liverpool; and a Listening Event which engaged students from primary through to higher education.

The listening event hosted in a world café format, saw students discuss the key issues that affect their environment and potential solutions, in an environment that fostered collaboration and collective discussion across the different ages groups and allowed different perspectives to be shared, and similar patterns and insights identified, in an informal and friendly manner.

Students of all ages raised similar concerns particularly within the context of their local communities’ environment and offered innovation solutions to some common problems. Several students were recorded addressing their concerns directly to Metro Mayor Steve Rotheram with the film being screened at the summit event.

Cycle2Work Scheme



The University of Liverpool’s Cycle2Work Scheme provides staff with the opportunity to sign up for the tax-free bike scheme run in conjunction with our partner Sodexo Motivation Solutions Ltd and Cycle2Work. The Cycle2Work Scheme is supported by a wide range of specialist bike dealers, catering to everyone regardless of their needs, budget, location, or journey to work. Staff can claim the cost of a new bicycle and safety accessories to the value of between £100 and £2,500 from a range of instore and online shops.



Supporting cycle infrastructure



The University has six secure bicycle sheds on campus, alongside over 1,000 Sheffield stands. Storage in the secure units is already at capacity and with the anticipated increase in demand in cyclists on campus we need to increase the number of available spaces in the units.

Following discussions with LCRC the University has been able to secure £30,000 from the first tranche of the DfT Active Travel grant to fund a new two-tier cycle storage unit outside the Harold Cohen Library. An additional £200,000 funding request has been submitted through the second tranche of funding to increase secure storage capacity across the main campus and residences.

WHAT NEXT?

2020/21 is about building on last year’s achievements and looking at how sustainability can be used to drive a green recovery as we transition into a new normal. The University has seen significant change since March 2020 and it’s unlikely that the new normal will look the same as how we operated previously. The lockdown has shown us that staff can work from home and a hybrid system is a viable option for teaching and learning.

In a talk, as part of Making an Impact 2020, Vice-Chancellor Professor Dame Janet Beer spoke about the commitment the University has made through signing the SDG Accord and the importance for the University’s research and wider impact.

The University is already doing a great deal to work towards the achievement of these goals, particularly through its research and there is no more obvious current example than the research response to the COVID-19 pandemic. Through colleagues’ work to find a vaccine, to assess the psychological impact of lockdown, to using big data to support better decision making and much, much more the University is contributing in a significant way to both the immediate pandemic and the SDGs.

This research response will continue as we continue to adapt to the challenges of COVID and climate change. Once such research group looking to bridge these gaps in the N8 Research Partnership, the strategic collaboration of eight research-intensive universities in the North, who recently joined forces with the Northern Powerhouse Partnership to submit a representation to the 2020 Comprehensive Spending Review. Net Zero North (NzN) will connect the Northern Powerhouse’s science and research capabilities, skills providers, and businesses to forge a green recovery from COVID-19 while simultaneously putting the UK at the forefront at the global drive for net zero carbon.

As individuals we are asking staff and students to think about their behaviours and the choices that they make – what are the impacts of these on the planet and on others? Throughout 2020/21 there will be a range of forums, workshops, events, and activities that will provide the knowledge, skills and opportunity to make better informed choices. Let this year be the year that you start to make changes!



Appendix 1 – Key Performance Indicators

Performance Measure	Key Performance Indicator	Baseline Year	2018/19	2019/20	Target	On track to meet target
ETHICAL INVESTMENT						
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	↑
Divest from fossil fuels	University commitment to divest from fossil fuels	N/A	Policy approved	Implementation period	Full divestment by July 2022	↑
ENVIRONMENTAL MANAGEMENT SYSTEM						
Maintain ISO14001:2015 certification	Certification to ISO14001:2015 standard	N/A	Maintained certification	Recertification achieved	Maintain and continually improve certification	↑
Monitor number of reportable pollution incidents to air, land and water	Number of pollution incidents	N/A	0	0	Zero pollution incidents	↑
Determine and understand the University's environmental compliance obligations and evaluate our compliance status	Number of major non-conformances due to breach in our compliance obligations	N/A	0	0	Zero major non-conformances related to a breach in our compliance obligations	↑
Respond to freedom of information requests	Number of freedom of information requests responded to	N/A	1	2	Respond within required period	↑
EDUCATION FOR SUSTAINABLE DEVELOPMENT						
Students have the opportunity to develop skills for sustainability	Number of students volunteering in sustainability related activities	N/A	420		600	←
BIODIVERSITY						
Achieve Hedgehog Friendly Campus Status	External accreditation	N/A	n/a	Bronze	Silver accreditation by 2021	↑
BUILT ENVIRONMENT						
Achieve BREEAM rating for new builds	BREEAM rating	N/A	1	1	Excellent – new builds V Good - Refurbishment	↑
Establish ecological baseline for biodiversity on campus	Baseline	N/A	n/a	completed	Extended phase 1 habitat survey completed	↑
CARBON EMISSIONS						
Reduce scope 1 & 2 carbon emissions	Percentage reduction of carbon and carbon equivalent emissions	42,979	40,804	39,094	18% reduction by 2020	↑
Measure and report scope 3 carbon emissions from water, waste, business travel and staff commute (tonnes)	Total scope 3 emissions (tonnes)	N/A	1,188,160		Measure and report scope 3 emissions	←
CULTURE & COMMUNITY						
Equitable Employer	Number of departments with ATHENA SWAN		14 ranging from Bronze to Gold		A new University application and action plan is planned for November 2020. Targets will be agreed within that to progress existing awards to higher levels where relevant.	↑
Staff are paid a living wage	Accreditation to Living Wage Scheme	N/A	achieved	maintained	Living Wage accreditation	↑
TRAVEL AND TRANSPORT						
STAFF COMMUTE						
Reduce number of single occupancy vehicle journeys	Percentage SOV rate	N/A	37.6%	37.6%	25% by 2023	←
Increase staff journeys made by public transport	Percentage of public transport rate	N/A	29.1%	29.1%	44% by 2023	←
Increase staff journeys made by active travel modes (cycling and walking)	Percentage of active travel rate	N/A	16.6%	16.6%	20% by 2023	←
FLEET VEHICLES						
Increase the number of electric vehicles (EV) in the University's core fleet	Number of EV vehicles	N/A	1	1	5	←

RESPONSIBLE CONSUMPTION AND PRODUCTION						
RESOURCE CONSUMPTION						
To reduce the consumption of natural resources for energy supply	Percentage reduction in energy consumption	N/A	+8%	-25%	TBC	
	Percentage of energy generated from renewable or low carbon sources	N/A	58%	72%	TBC	
To reduce the consumption of natural resources for water supply	Percentage reduction in water consumption	N/A	-1%	-8%	TBC	
Divert non-hazardous general waste from landfill	Percentage of waste diverted	N/A	100%	100%	100%	
Divert construction waste from landfill	Percentage of waste diverted	N/A	100%	100%	100%	
Increase reuse & recycling (onsite)	Reuse and recycling rate	N/A	26.1%			
PROCUREMENT AND SUPPLIER ENGAGEMENT						
Improve sustainable procurement practice	Level achieved on the net positive flexible framework	N/A	Level 3	Level 3	Level 4	←
	Modern slavery statement available	N/A	Yes	Yes	Publicly available online	↑
	Certification to sustainability standards	N/A	1 (Fairtrade)	1 (Electronics Watch)	Accreditation to more than 2 sustainability standards	←

Appendix 2 – Performance Data 2014/15 to 2019/20

KEY PERFORMANCE INDICATOR (KPI)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/2020
CARBON						
Total scope 1 & 2 carbon emissions (tonnes)	43,063.9	40,957	46,212	43,024	40,804	39,179
Total scope 1 & 2 carbon emissions per staff and student (tonnes/FTE)	1.77	1.56	1.65	1.42	1.31	TBC
Total scope 1 & 2 carbon emissions per m2 (tonnes/m2)	0.09	0.09	0.10	0.09	0.08	TBC
Total scope 3 carbon emissions from water, waste, business travel and staff commute (tonnes)	1,253,155	1,240,592	1,188,173	1,188,169	1,188,160	TBC
CONSUMPTION AND PRODUCTION						
Total energy consumption (kWh)	207,415,217	198,991,964	236,895,642	206,178,530	223,189,858	166,707,132
Total energy consumption per staff and student (kWh/FTE)	8,530	7,591	8,481	6,818	7,184	TBC
Percentage of energy generated from CHP (%)	61.0	71.3	59.6	70.4	57.8	72
Total renewable energy generated onsite or offsite (kWh)	75,532	66,220	93,197	71,358	103,119	58,138
Percentage of renewable energy generated from onsite or offsite renewables (%)	0.036	0.033	0.039	0.035	0.046	0.035
Total water consumption (m3)	330,423	320,565	320,914	321,628	319,348	294,056
Total water consumption per staff and student (m3/FTE)	13.59	12.23	11.49	10.64	10.28	TBC
Waste mass generated (tonnes)	2,475	1,877	1,915	1,959	1,975	1,269
Waste mass generated per staff and student (tonnes/FTE)	101.783	71.603	68.552	64.792	63.575	TBC
Total waste mass recycled/composted (tonnes)	639	481	491	505	515	306
Percentage of waste generated that is recycled/composted (%)	25.8	25.6	25.6	25.8	26.1	24.2
Level achieved on the Flexible Framework	3	3	3	3	3	3
Modern slavery statement publicly available	N/A	N/A	N/A	Yes	Yes	Yes
BIODIVERSITY						
Number of green walls/roofs	2	2	2	2	2	2
Hedgehog Friendly Campus status	N/A	N/A	N/A	N/A	N/A	Bronze
BUILT ENVIRONMENT						
Achieve BREEAM rating for new builds				1	1	1
External awards for sustainable construction/ design						
TRAVEL AND TRANSPORT						
Percentage modal split for commuting by single occupancy car journey (%)	31.00	31.00	31.00	37.60	37.60	37.60
Percentage modal split for commuting by car share (%)	14.00	14.00	14.00	8.10	8.10	8.10
Percentage modal split for commuting by bus (%)	12.00	12.00	12.00	14.00	14.00	14.00
Percentage modal split for commuting by train (%)	23.50	23.50	23.50	25.10	25.10	25.10
Percentage modal split for commuting by cycle (%)	9.00	9.00	9.00	6.70	6.70	6.70
Percentage modal split for commuting by walk (%)	9.50	9.50	9.50	7.40	7.40	7.40
Percentage modal split for commuting by motorbike (%)	1.00	1.00	1.00	0.60	0.60	0.60
Percentage modal split for commuting by staff other (%)	0.00	0.00	0.00	0.50	0.50	0.50
Number of car parking spaces	1,645	1,645	1,645	1,645	1,635	1,635
Number of secure cycle spaces	225	225	222	255	255	255
ENVIRONMENTAL MANAGEMENT SYSTEM						
EMS CERTIFICATION TO ISO14001:2015 STANDARD	N/A	N/A	N/A	achieved	achieved	achieved
Number of pollution incidents	0	0	0	0	1	0
Number of major non-conformances due to a breach in our compliance obligations	0	0	0	0	0	0
CULTURE AND COMMUNITY						
Living Wage Employer Accreditation	N/A	N/A	N/A	N/A	achieved	achieved
ETHICAL INVESTMENT						
Compliance with the Ethical Investment Policy	N/A	N/A	N/A	Maintained compliance	Maintained compliance	Maintained compliance



GET INVOLVED

Everyone can make a difference through sustainability at the University of Liverpool.

We want to hear your feedback and ideas to help us continue to work towards our vision of a sustainable university.

What do you think of this year's report?

Do you have an idea for a sustainable research project, activity, or event?

Is there something we are not doing that you want to share?

Get in touch with the sustainability team, we would love to hear from you.

liverpool.ac.uk/sustainability

