



This management review examines the performance of the University's Environmental Management System (EMS) certified to ISO14001:2015, providing Senior Management with the opportunity to steer the EMS to deliver a consistently effective output and to demonstrate continual improvement.

This report summarises the activity of the EMS up to June 2024 and provides an update on the energy and waste performance between August 2022 to July 2023, collated against the academic year of August to July.

The Sustainability Implementation Group (SIG) is the Senior Management Group specified in the EMS procedure UOSEMSP018 and through their procedures provide a review of the report on compliance, performance and embeddedness of the EMS annually. Although the SIG does not directly work with ISO14001:2015, the Sustainability Strategic Plan and work of the SIG closely aligns to the EMS objectives.

SIG meets monthly, and so the report was presented at the October 2024 meeting for review. Decisions made at the SIG were presented to the Estates Leadership Team and Programme Coordination Board for input and approval. The outcome of this Management Review was reported to the Sustainability Strategy Board in October 2024.

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FMS SNAPSHOT

The following snapshot gives an overview of the EMS, including successes of the EMS in application across the University and an update of our energy, water and recycling rates.





EAUC Green Gown Award



Climbed 54 spaces in QS World University Rankings for Sustainability 13th in the UK and 34th in the world.



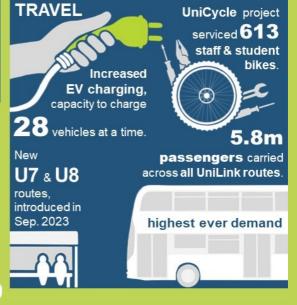


BIODIVERSITY assessment of Valley Gardens conducted:

at all life stages.

Hedgehog friendly Campus gold award

Vegetable garden established to provide food for UoS kitchens.



OBJECTIVES SUMMARY & PROGRESS STATUS

The following section provides a summary of the University's Environmental Management System (EMS) objectives, current progress and RAG rating (Table 2), with definitions for the RAG ratings provided in Table 1.

Table 1: RAG rating definitions.

Red	Initiative off track and cannot be delivered to plan without intervention		
Amber	Issues exist but are being managed. A plan to return to green exists.		
Green The initiative is on track. Proceeding to plan, within budget and forecast to deliver required objectives.			

Table 2: Summary of EMS objectives, RAG rating and progress.

Objective summary	RAG rating	Progress & reasons for RAG rating
Waste : Mange our waste according to the waste hierarchy - prevent, reuse, recycle, recover & dispose.	Red	Improved internal and external bin systems are needed to increase recycling rates.
Biodiversity: Maintain and where possible enhance habitats for the benefit of people and wildlife.	Amber	Successful student events, planting insect-friendly plants, and species surveys in Valley Gardens. More focus needed with strategy to ensure climate resilience.
Energy and Carbon: Reduce carbon emissions by 20% from 2005/2006 baseline by 2020.	Amber	Reduced gas use but increased electricity consumption due to CHP faults.
Water: Reduce by 30% from 2009/2010 baseline by 2020.	Amber	Decline in consumption, but more focused strategies required to continue reductions.
Procurement: Manage our supply chain by considering the economic, ethical & whole-life costs of purchasing decisions.	Amber	Progress being made to engage with suppliers, further work needed to reduce Scope 3 emissions.
Education for Sustainable Development: Sustainability course content; using the campus as a resource for learning.	Green	Good examples of student engagement, providing work experience opportunities.
Communications: Engage students & staff and the community on the principals of sustainability.	Green	Good engagement demonstrated in the establishment of an Estates & Facilities (E&F) Sustainability Committee, Sustainability Community of Practice and continued communication of EMS activities over multiple platforms.
EMS and Audit Results	Green	Successful external audit in July 2024 and regular internal audits of university buildings.
Pollution Prevention and Legal Compliance: Minimise emissions to air, land & water. Ensure we operate within our compliance obligations.	Green	Few pollution incidences reported, with legal compliance maintained through audit.
Sustainable Buildings: Design, build & refurbish our estate in an environmentally responsible & resource-efficient way.	Green	Sustainable Buildings Design Guide successfully applied to new projects.
Travel: Improve transport options available to staff, students & visitors to reduce car travel.	Green	New Uni-Link routes to Winchester School of Arts (WSA) and the University of Southampton Science Park (USSP) and new car park management system in place across cit campuses.
Continual Improvement and enhanced performance of the EMS.	Green	Notable successes in catering, resulting in being a Green Gown finalist and significant progress towards ISO50001 Energy Management certification.

PROGRESS AGAINST PAST YEAR

Table 3 provides a short summary of progress against the past year for the EMS key performance indicators (KPI).

 Table 3: EMS KPI progress against previous year.

EMS KPI	Rating	% change	Explanation
Waste recycling from all streams 85% recycling rate	Red	3% increase	Figure includes construction waste, which is heavy, largely recyclable and significantly increases the overall recycling figure.
Waste recycling from academic sites 47% recycling rate	Red	11% increase	Increase in recycling rate due to prior year's recycling rate being exceptionally low. This was due to the pandemic and the rise of single-use and non-recyclables.
Waste recycling from halls sites 41% recycling rate	Red	9% increase	Achieved 41% recycling rate. Increase due to reasons stated above
Purchased grid electricity 24.8 GWh	Amber	9% increase	Reduced output of the CHP resulted in a need to purchase more grid electricity.
Gas consumption 92.5 GWh	Green	5% decrease	Faults with the CHP led to reduced gas consumption.
Water consumption 373.1 ML	Green	7% decrease	Higher consumption in prior year due to leak at Winchester School of Art. Consumption reduced to expected levels.



Maintain and enhance habitats for the benefit of people and wildlife

Biodiversity action is regularly reviewed by quarterly meeting of the Biodiversity Working Group, attended by members of estates and facilities, student representation and academics with a research interest in biodiversity. We are in the process of updating the UoS biodiversity policy which will address habitat protection, climate adaptation, species management and biodiversity net gain.

There were a range of activities from August 2023-June 2024 to enhance habitats of species on campus, some of which are as follows:



Newt surveying

In June 2024, newt surveys were conducted in Valley Gardens by Abtech. The process involved engaging with students to train them on conducting newt surveys, which were very successful. Surveys were conducted in Valley Garden ponds and all native species of newt (smooth, palmate and Great Crested) were identified in the pond surveyed. Newts were identified at all life stages with eggs, efts and adults, which was a great result.

University vegetable garden

A vegetable garden was planted by the catering team, providing food for the university kitchens and providing food and habitats for pollinators. There are plans to increase the area for vegetable growing in 2025, with an area next to Building 46 designated as a suitable space. This will be used predominantly to grow vegetables, but the areas will also be used as an engagement opportunity to teach staff and students how to grow their own vegetables at home.





University wildflowers

Wildflowers have been planted by SUSU as part of the SUSU Green Week in April 2024 to the rear of Building 85, providing habitats for insect species. This also became a positive step to engaging students planting on campus and making a lasting difference.

Student planting event

Students took part in an engagement event to plant raised beds by Glen Eyre halls of residences with insect-friendly planting.



Find out more: Scan the QR code to read the current UoS Biodiversity Policy



Net zero carbon emissions by 2030, an update on performance from August 2022 to July 2023

Electricity and gas consumption began to fall in 2019/2020, see Figures 1 - 2, due to Covid-19 enforced closures of university buildings, which as result created a considerable energy saving. Consumption started to increase in subsequent years following the reopening of university campuses. Purchased electricity consumption has not increased to pre-pandemic levels, but gas consumption has increased to a similar level.

In 2022/23, gas consumption reduced slightly from the prior due to the CHP being out of action for a period of time, reducing the input of gas. Therefore, more grid electricity was purchased to compensate for the lower electricity produced from the CHP.

Goal 1 of our Sustainability Strategic Plan is to be net zero in scope 1 and 2 carbon emissions by 2030, which is directly impacted by our energy use

Carbon

For details on carbon reporting as well as more about our achievements and next steps against this goal, please scan the QR code to read the Annual Sustainability Report by the SIG which covers the emissions from all Scopes in accordance with the Green House Gas (GHG) protocol.



Find out more:

Scan the QR code to read the University of Southampton Annual Sustainability Report

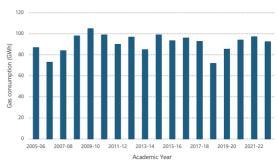


Figure 1: Gas consumption for 2005-23.

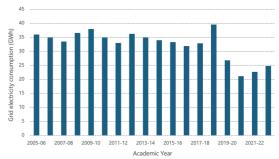


Figure 2: Electricity consumption for 2005-23.

SUSTAINABLE BUILDINGS

PROGRESS STATUS: GREEN

Design, build and refurbish out estate in an environmentally responsible and resource-efficient way

The Sustainable Buildings Design Guide was signed off in September 2023 and is used as a baseline for all building, refurbishment and maintenance projects. The guide sets a standard across sustainability topics to be achieved by projects and the reporting routes through each project phase. The vision of a sustainable estate incorporates:

- . Considering a sustainable estate in all areas of the design, build and refurbishment
- · Carbon emissions associated with building operation and building design
- Energy use and setting targets to minimise use
- · Healthy and Productive Environments
- Circular Economy



The design guide will be reviewed and updated annually

Scan the QR code to review the adopted Sustainable Building Design Standards.

Manage our supply chain by considering the economic, ethical & environmental impacts & whole-life costs of purchasing decisions

A Responsible Procurement working group has been established and has set priorities and a pipeline of activity which includes:

- Developing resources for the team, these include for example scoring criteria, qualitative questions and KPIs.
- Facilitating development forums for the Procurement and Contract Management Team.
- · Identification of appropriate training for the team.
- Contract management have been embedding Responsible Procurement in contract monitoring meetings, where appropriate. This has been well received by suppliers, some of whom are now sharing reports that they generate internally which may help us develop our monitoring further.
- The Supplier Code of Conduct will be included in tender documentation as a trial from this year.

Some examples of improvements which have been made include:

- As a trial, in AY 2023-24, some tenders have included the requirement for the successful supplier to sign up to the Net Positive

 Net Zero Carbon (NZC) Supplier Tool.
- The University's travel management company Clarity will be launching a new version of ClarityGO in mid-September. This will
 display details on the CO2 being used for the travel, making it easier to select the most sustainable mode of travel.
- The launderette tender included a question on how the organisation manages the environmental impact of their laundry services, such as water and energy usage, packaging, vehicles, and other means to reduce their carbon footprint. The successful tenderer's response included the following:
 - · Using up to 97% recyclable parts.
 - · Auto-dosing on machines, negating the need for users to purchase laundry detergent, thus reducing single-use plastics.
 - 177 trees planted.
 - All new company vehicles will be electric.
 - Electricity consumption reduced by 50%.
 - Waste packaging reduced by 50%.



Find out more:
Scan the QR code to read more detail about our sustainable purchasing

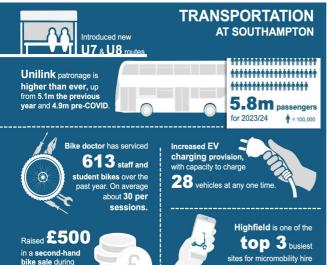


TRAVEL PROGRESS STATUS: GREEN

The transport team has experienced many successes (Figure 3) over the past year with interventions implemented to address our target of improving sustainable travel options for staff and students.

Successes:

- Appointment of a new Transport Manager to oversee and implement improvements to our travel infrastructure and Travel Plan.
- A new car parking management supplier, APCOA, has been procured and is set to bring improvements to the way we manage and enforce our car parks. This will include variable messaging signs, informing people of where parking spaces can be found, reducing the buildup of congestion and, therefore, reducing emissions.
- The university closed the 432 space Broadlands Car Park In April 2024, to accommodate the North East Quadrant campus development. The closure followed months of careful capacity monitoring and modelling, and was achieved without the provision of any additional spaces elsewhere.
- We have made improvements to the Unilink network by introducing new services such as the U7 route to Winchester School of Art and the U8 route to Chilworth Science Park. This makes sustainable travel more attractive and providing a faster service to those travelling to these locations.
- We have installed 14 additional Pod Point electric vehicle chargers across campuses, bringing the total provision to 24 and incentivising the use of electric vehicles.
- After collecting and refurbishing abandoned bikes on campus, we have organised bike sales for staff and students and donated bikes to local charities working with refugees to provide sustainable transport.
- We have modernised our Transport website pages, ensuring users have up-to-date information, including travel news and initiatives.
- We have received approval from Southampton City Council for the latest iteration of our travel plan, therefore discharging planning conditions relating to the NEQ and the Jubilee construction projects.



We participated in Love to Ride's Mike Month in May 2024,

Green Week, with

proceeds invested into sustainable travel measures.

> finishing 1st of the Solent leaderboard and 5th in the **UK** for miles

COVID found to increase **Work From Home** which reduced congestion. Average number of days staff spend on campus reduced from 4.6 days (pre-COVID) to 2.8 davs.



sites for micromobility hire

in Southampton.

Future plans:

Further improvements of the Unilink network will include better connections to Southampton General Hospital at peak times and more U1 services will come into circulation to manage demand.

There are plans to further expand our Pod Point network across our campuses to enable more electric vehicle charging.

There are plans to implement a more robust fleet management system, accelerating the adoption of electric vehicles amongst faculties and reduce business emissions. This action directly supports Goal 3 of the Sustainability Strategic Plan.

Cvclina:

The Bike Doctor has serviced 613 staff and student bikes in the past year

We participated in Love to Ride's Bike Month in May 2024 and finished top of the Solent leaderboard, fifth in the UK for the miles recorded

We raised £500 in a second-hand bike sale during Green Week 2024. This will be reinvested into sustainable travel measures.

Electric vehicles:

Over the past year we've increased the provision of our EV chargers on site to 28 chargers across Highfield, Avenue, Boldrewood and WSA. Utilising electric power instead of fossil fuel has prevented the release of 20 tonnes CO2 and the number of charging points will be increased further over the next year.

WATER PROGRESS STATUS: AMBER

Water consumption, as shown in Figure 4, has steadily declined since 2016/17, with the largest reduction seen in 2019/20 and 2020/21 due to the low occupancy of buildings during Covid-19. In 2021/22, water consumption increased again following the University resuming 'normal' operation.

In 2021, there was a leak at the Winchester School of Arts (WSA) East meter, which caused high usage from February to October 2021. Therefore, water consumption in 2022/23 is a return to our expected consumption.

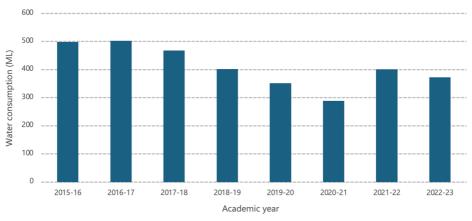


Figure 4: Water consumption for 2015-23.



WASTE PROGRESS STATUS: RED

We are in the process of developing a Waste and Recycling policy to embed into our operation, making a commitment to improving our waste management processes and help guide our improvement projects. This document is currently in draft with a target publication date of January 2025.

In May 2024, we appointed a new Waste and Environmental Services Manager, who will assist the University in reaching the annual waste targets. Several campaigns have been running for the past year as detailed below.

- A reuse campaign was input for the student move out in June 2024. This involved engagement with SUSU and the Residences team.
- The Rehome Furniture Teams site has reduced bulky waste collections by one third in the 18 months since the project was started (Figure 5). This has resulted in less furniture being purchased by departments, reduced collections for removing waste and an increase in reuse across the campuses.
- In halls of residence, new charity donation points for Hampshire and IOW Air Ambulance and the Salvation Army were installed to increase the capacity for student donations.
- A new partnership with Scratch charity has been established to donate unwanted kitchen items and charity Two Saints are now accepting duvets and pillows donated from students.

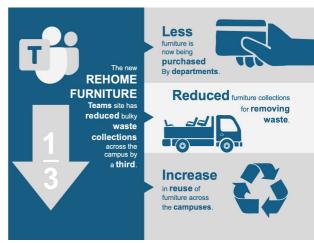


Figure 5: Visualisation of impacts from the Rehome Furniture scheme.

Waste targets v actual rates

A new Transport Manager has been appointed to oversee and implement improvements to our travel infrastructure and Travel Plan and oversee progress against waste recycling targets, a summary of which is provided in Table 4.

Table 4: Progress against waste recycling targets.

Table 4: Progress against waste recycling targets.					
Target	Recorded recycling rate	Explanation			
Recycle at least 65% of all waste streams	85% achieved	This was achieved due to a large amount of recyclable waste generated from the construction of the Building 18 extension and high quantities of waste soil recycled from the car park project.			
Recycle at least 60% of waste in academic sites	47% achieved	This target has not been achieved due to low resource to engage with academic sites on recycling projects, as well as poor infrastructure to enable staff and students to dispose of their waste correctly.			
Recycle at least 60% of waste in halls sites	41% achieved	This target was not achieved due to low resource to engage with students in halls of residences and highlights a need to further engage with students on how to correctly recycle.			
Recycle at least 85% of waste from construction sites	97% achieved	This was achieved due to the high recyclable value of construction waste. Construction waste arose from the Building 18 extension project, Sir James Matthews refurbishment and Building 13 re-roofing, as well as other refurbishment projects.			

Noting the drift against waste targets for academic and hall sites, the priority for the coming year is to analyse the causes, develop an action plan to address them, and implement these actions, under the structure set out in the Waste & Recycling Policy.

EDUCATION FOR SUSTAINABLE DEVELOPMENT

PROGRESS STATUS: GREEN

Sustainability curriculum; using the campus as a resource for learning

Our target for education for sustainable development closely aligns to goal 4 of the Sustainability Strategic Plan; Ensure that sustainability is part of every university programme by 2025. Good progress has been made, with a continually improving sustainability e-learning module, the launch of a university-wide module 'Global Sustainability Challenges' and the SDGs have been mapped against all university programmes. Additional progress has been made in the EMS in June and July 2024:

- In June 2024, newt surveys were conducted in Valley Garden ponds by Abtech, engaging students on ecology careers and teaching students how to conduct newt surveys.
- Southampton Business School presented recent projects to local Sixth Form students, educating them on careers in sustainability.
- The E&F Sustainability Team hosted two work experience students that had a particular interest in sustainability. The students
 assisted in an ISO14001 environmental audit of the catering department, as well as reviewed the Sustainability Strategic Plan and
 had a campus tour.

POLLUTION PREVENTION & LEGAL COMPLIANCE

PROGRESS STATUS: GREEN

In 2024, two environmental incidences have been raised:

- A dead hedgehog was found outside building 44, which was reported and disposed of by domestic services. The root cause was not found as the cause of death was unknown.
- A traffic cone was found in the western watercourse, which was also removed following a Planon request.

Due to the nature and of these incidences, they were considered to be findings that did not require follow-up actions. The appropriate cleaning teams dealt with the incidences in the timely manner and the incidences did not reoccur.



Engage students & staff and the community on the principals of sustainability

In January 2024, the Sustainability Community of Practice was started to engage staff and students across the university community with sustainability issues and provide updates on the EMS and university Sustainability Strategic Plan. These quarterly events are held on Microsoft Teams and host a variety of speakers from across the university, giving updates on how their work and research contributes to the Sustainability Strategic Plan. The Teams chat function gives regular updates on research and topical issues regarding sustainability.

The Residences team set up a sustainability stall at the Residences Life Fairs in October 2023 to share key messages with students. This was also replicated in April 2024, at the SUSU Green Week, alongside a variety of activities including: a second hand clothes sale, talks from academics with an interest in sustainability, wildflower planting, engaging recycling games, a sale of refurbished bikes to promote sustainable travel and a Sustainability Strategy update (Figure 6).

In May 2024, a new E&F Sustainability Committee was established, attended by the Catering Manager, Energy Manager, Waste and Recycling Manager, Senior Quality and Compliance Manager, Transport Manager, Landscaping Manager, Associate Director and Environment and Sustainability and Environment and Sustainability Manager. Bringing together E&F staff to discuss sustainability in their work allows for knowledge sharing of good news stories and challenges to discuss and overcome.

In June 2024 a staff and student engagement event was organised by the Friends of the River Itchen group in collaboration with the university. This event brought together staff, students and the public to pull the invasive species Himalayan Balsam near Wessex Lane halls of residences.

In July 2024, SIG hosted an annual update event in Building 100 (Figure 7), which was available as an in person and online event to staff and students. The event included an update from goal champions, as well as a biodiversity update, and was well received by the university community.



Figure 6: Q&A during the Sustainability Strategy update.



Figure 7: Goal Champions panel during the SIG annual update.

PROGRESS STATUS: GREEN

CHANGES TO THE FMS & AUDIT RESULTS

Changes to the EMS

In February 2024, ISO 14001:2015 standard, clause 4: context of the organisation, was updated to require us to determine if climate change is a relevant issue. The amendment to the standard has been updated in our documentation, as climate change is addressed in the EMS and as part of the Sustainability Strategic Plan.

Audit

Throughout May, June and July 2024, several internal environmental audits took place in high risk areas of the campus, such as buildings 53, 85, 18 and 42. Minor non-conformities and opportunities for improvement were raised, with a reoccurring theme relating to incorrect chemical storage. However, corrective actions were raised and actions taken to resolve highlighted issues.

The NQA External surveillance audit took place between 16th -18th July 2024, where one non-conformity and four opportunities for improvement were raised:

- Minor NCF raised due to a lack of hazardous waste consignment note being available for WEEE waste at Romero halls of residences.
- Opportunities for improvement were raised due to a lack of COSHH information in the Romero laundry, some missing entries to indicate water quality testing at the Boldrewood Towing Tank, a lack of targets to reduce paper use for printers and a review of labelling waste bins.

The non-conformity was subsequently closed due to consignment note being made available after the audit and corrective actions are already in place for the raised opportunities for improvement.

CONTINUAL IMPROVEMENT

In June 2024, the Estates & Facilities (E&F) sustainability team made an application to the EAUC Green Gown awards in the Campus Food and Drink category, following huge successes of the Catering Team making sustainable changes across the catering offering:

- The team have developed a 20-mile menu for some campus restaurants (Figure 8), changing suppliers to work with regional
 food organisations and purchase local and seasonal produce from ethical suppliers within a 20-mile radius of Southampton, thus
 reducing the emissions associated with producing and delivering to the University.
- The team have significantly reduced their single use plastics, particularly single use coffee cups. In catered halls of residences, single use cups and takeaway food boxes have been eliminated altogether following the successful launch of using reusable alternatives in their place.
- The catering team have also been growing their own vegetables, with plans for further vegetable beds to be installed in 2025.
- A cookery school will be launching in October 2024, teaching students to cook sustainably, batch cooking healthy and affordable meals.
- Food waste has been reduced through cooking food to order, using apps such as Too Good To Go to sell food going out of date to students and staff at a low price and reselling sandwiches going out of date to students in halls of residences bars at a significant cost saving.

These initiatives secured the team a finalist spot at the 2024 Green Gown Awards.



Figure 8: Visualisation of local suppliers for the 20-mile menu.

ISO50001

In summer 2021, the university agreed to drive towards certification to ISO50001:2018 Energy Management. Work then commenced to review the ISO50001 requirements, and a decision was made to integrate energy management into our current ISO14001:2015 Environmental Management System to create an Environment and Energy Management System (EEMS). Work then started to ensure that our processes and documentation were aligned to the system requirements. In June 2023, internal auditors, Loreus, provided a gap analysis which highlighted areas where documentation needed to be updated to meet the requirements of both standards. Efforts are now focussed to ensure that gaps are addressed and that certification can be achieved.

An ISO 9001 Quality Management System (QMS) is in development within E&F. The initial scope of the QMS will be Engineering & Infrastructure (E&I); however it is being designed in a way that enables extension of scope to other areas of E&F in the future. The QMS processes and procedures are being aligned with the university's ISO 14001 Environmental Management System, to leverage existing good practices, avoid duplication of effort, reduce inconsistency and maximise potential. The intention is to create an Integrated Management System (IMS) covering both ISO 9001 and ISO 14001 for E&I, without impacting the existing university EMS scope or accreditation. QMS process mapping has been underway since January 2024, with a number of key business processes already mapped and documented, including the following:

Control of contractor | Asset management | Customer feedback | Document control

Quarterly updates are presented on the development of the QMS, and implementation is planned for 2025; however, the exact timeframe is still to be determined as it is dependent on organisational restructures across Engineering & Infrastructure.



SUMMARY

The university has continued to progress against its sustainability targets, with successes seen in energy consumption, waste reduction initiatives, biodiversity and species monitoring, travel initiatives and a positive result from the external surveillance audit. A reduction of scope 1 and 2 emissions against the prior year helps us drive towards a target of net zero emissions by 2030, with future projects planned to reduce emissions further in the coming years.

In the coming year, we will focus on driving further improvement across all targets, with a specific focus to ensure the biodiversity policy is adhered to, with our green spaces mapped and improvement opportunities utilised. We will also be focussing on improving our waste and recycling offering, increasing the opportunities on campus for staff and students to recycle and reduce waste, and increasing the reach and effectiveness of energy management systems, specifications and projects.



FEEDBACK

If you have any comments or feedback on this report, please contact the Estates & Facilities team via email.

If you are a member of our staff and student community, you are welcome to start a discussion via the Viva Engage (previously called Yammer) group.





This cycle of reporting is repeated on an annual basis.



Environmental Management System (EMS)

At the University of Southampton, we are dedicated to effectively managing our environmental impact and driving continuous improvement through implementing our Environmental Management System (EMS). Integrated into our core business operations, our EMS is accredited to the international standard ISO 14001:2015. This robust system guides us in safeguarding the environment, preventing pollution, and ensuring compliance with relevant regulations.

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