



Environmental Sustainability Plan

2020-2023

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1 Introduction

Lancaster University Sustainability Plan is an overarching strategic plan explaining the background, context and arrangements for planning, managing, monitoring and reporting environmental sustainability issues relating to Lancaster University Facilities activities and operations. The plan forms Facilities contribution to the Lancaster University Environmental Sustainability Plan. The scope of Facilities responsibility for management of environmental issues are outlined, as are external and internal factors affecting environmental management.

1.1 Background

Adverse human impacts on the world climate and environment are crystal clear, with increasing anthropogenic carbon emissions resulting in atmospheric carbon dioxide emissions exceeding 400ppm and rising. The warming of the climate system is unequivocal and is clearly now having widespread impacts on human and natural systems. Human encroachment and destruction of natural ecosystems is also concurrently resulting in significant additional impacts. Taken together these processes will increase the likelihood of severe, pervasive and irreversible impacts for people and ecosystems.

1.2 Intergovernmental Panel on Climate Change (IPCC) 2018 Report

The IPCC special report on Global Warming of 1.5°C published in 2018 highlighted the impacts of a 1.5°C increase in global average temperatures and the considerable risks associated with a 2°C rise. The further two IPCC special reports the Ocean and Cryosphere and Climate Change and Land, published in 2019 highlight how these environments are under intense pressure and degradation, and how people directly or indirectly depend on these environments for our survival. The full IPCC AR6 report is due in 2021/22.

1.3 UK and Local Climate Impacts

The impact of climate change and habitat loss on natural ecosystems and humans within the UK are clear. Rising sea levels are requiring significant coastal defence works, with certain communities already identified to be abandoned and other areas impacted with rapid coastal erosion. Flooding from high levels of seasonal rainfall is becoming a more regular occurrence, interspersed with drought conditions some years. The warming climate is also contributing to higher rainfall events and reduction in snow lying, with certain high altitude climate types imperilled.

Local impacts of climate change are also clear in North West England including Lancashire and Cumbria. Mean sea levels in North West England have risen 200mm since 1920 due to global warming. Unusual major flood events have also occurred due to extreme rainfall, at a regional level with Storm Desmond in 2015, and locally, at a district level from the River Conder and Lancaster flooding in 2017.

1.4 Sector and Lancaster University Responses

The HE/FE sector has implemented and trialled an extensive range of projects and initiatives over the last 25 years designed to reduce its climate and environmental impact. Sector knowledge and understanding of such issues is comprehensive and detailed, with initiatives extensively developed, supported and promoted by funding bodies such as HEFCE and promoted by sector bodies such as the EAUC and AUDE.

Lancaster University has been seen as a leader in the HE/FE sector in respect of the implementation of environmental sustainability initiatives and projects. Key initiatives that have helped develop this profile have included energy projects such as Lancaster University wind turbine and biomass boiler, the 'Don't Ditch It, Donate It' reuse project, the 'Edible Campus' sustainable food project, and the unique joint development of the 'Green Lancaster' initiative by Facilities and the Students Union.

A structured approach to environmental management has been developed within facilities at Lancaster University to enable the University to improve its environmental performance and minimise its environmental impacts. This has included implementation of an Environmental Management System (EMS), development of environmental plans to address significant environmental impact areas, a refresh of environmental sustainability governance structures, and on a University wide basis, appointment of a member of senior management with specific responsibility for environmental sustainability.

2 Strategic Context

2.1 Lancaster University Strategy

Lancaster University's Strategic Plan sets out a strategic vision for the University, including the principal priorities and dimensions of the Strategic Plan. A primary element of the 'Dimensions to the Strategy' is ensuring sustainability, including environmental sustainability. In terms of environmental sustainability the Strategic Plan commits Lancaster University to:

- Meeting its current carbon reduction targets;
- Meeting its other environmental targets;
- Becoming, in the longer term, an exemplar in practice and thinking on environmental sustainability;
- Producing a University Environmental Sustainability Plan

2.2 Lancaster University Environmental Sustainability Plan

The Lancaster University Environmental Sustainability Plan is the strategic document that translates the environmental sustainability vision and commitments in the Lancaster University Strategic Plan and Environmental Policy into an environmental sustainability plan covering all activities and operations of the University. The Environmental Sustainability Plan identifies the University's significant environmental aspects, impacts, risks and opportunities and, on the basis of these, establishes overarching environmental objectives and targets. The document also forms a framework for and identifies the required Faculty, Division or departmental contributions to the University Environmental Sustainability Plan in terms of issue specific or Faculty/Division specific environmental sustainability plans.

2.3 Lancaster University Sustainability Plan

This document, the Lancaster University Sustainability Plan comprises Facilities contribution to the University Environmental Sustainability Plan. Facilities projects, activities and operations have significant University wide environmental impacts and influence, as well as substantial impacts in the areas and operations fully controlled by Facilities as a Division of the University. This plan summarises Facilities significant environmental aspects and impacts and its response in terms of environmental objectives, targets, key performance indicators and issue specific environmental sustainability plans, addressing campus wide impacts such as waste management, travel and carbon management



3 Environmental Sustainability Drivers

3.1 United Nations Sustainability Goals

The UN Sustainable Development Goals (SDGs) are the world's to-do list for increasing social and environmental well-being on earth. The 17 goals cover social, environmental and economic sustainability, from protecting the Earth's natural environment to reducing poverty and hunger, improving health, education, social equality and working conditions, and making industrial processes more sustainable. The idea behind the SDGs is that economic growth, social inclusion and environmental protection need to be harmonized and that we need to balance current human needs and the needs of future generations in order to ensure the future well-being of people and planet. Lancaster University's Facilities Sustainability Plan and its associated Travel, Waste, Energy & Utilities, Behaviour Change and Ecology Plans contribute to 11 SDGs and these specific contributions are detailed in Appendix A.

3.2 International & UK Government Commitments

Following the agreement of United Nations Framework Convention on Climate Change (UNFCCC) in 1992 and the subsequent agreement of the Kyoto Protocol in 1997, developed nations made specific commitments to reduce their greenhouse gas emissions in the period 2008-2012. The 2010 UN Climate Change Conference agreed that future global warming should be limited to below 2°C, with the 2015 UNFCCC Paris Agreement's goal being to limit the increase to 1.5°C. The 2018 Intergovernmental Panel on Climate Change (IPCC) Special Report on Global Warming of 1.5°C made clear the dangerous impacts of climate change and the importance of limiting global warming to a maximum of 1.5°C. The report stated that this could be achieved only with "deep and rapid emissions reductions" and will require "far reaching and unprecedented changes in society".

The UK Government committed to reducing carbon emissions by 80% by 2050 in the 2008 Climate Change Act, this was adjusted to a target of carbon neutrality by 2050 in 2019. The Climate Change Act mandated 5 year carbon budgets which commit to an interim 2020 carbon reduction target of 34%, with 1990 as the baseline year.

3.3 Sector & Local Carbon Reduction Targets

The UK Government targets were adopted by the Higher Education Funding Council for England (HEFCE) in January 2010 for the higher education sector. HEFCE recalculated the UK national targets using the baseline year of 2005 to generate higher education sector carbon reduction targets of 43% by 2020, 83% by 2050 and intermediate carbon reduction targets of 12% by 2012 and 29% by 2017.

In its contribution to HE/FE Sector response, Lancaster University's CMP established scope 1&2 carbon reduction targets of -43% by 2020 and -83% by 2050 against its 2005 baseline emissions of 25,899tCO₂e. The University successfully reduced its scope 1&2 carbon emissions by 50.5% by 2018-19. As of 2018-19 Scope 3 carbon emissions from transport and procurement account for over 75% of total University Carbon emissions of over 53,000tCO₂e.

3.4 Climate Emergency

With the increasing urgency and apparent slow progress in reducing global carbon emissions, governments, local authorities and major institutions have been requested to prioritise reduction in carbon emissions by declaring a 'climate emergency'. The UK Government declared a climate emergency in May 2019. Locally, Lancaster City Council declared a climate emergency in January 2019. A petition and request for Lancaster University to declare a climate emergency was presented to University management in December 2020.

4 Facilities Environmental Management System

4.1 Introduction

Lancaster University Facilities are accredited to the ISO14001:2015 EMS standard. The Facilities EMS establishes a clearly structured approach to environmental management for the Division and provides Facilities management with a system that identifies and addresses the principal environmental impacts of Facilities and provides management information and control.

Through identifying Facilities principal environmental aspects, impacts, risks and opportunities, the EMS highlights where Facilities should develop environmental objectives, targets and strategic plans to address its most significant impacts in a structured and planned manner.

4.2 Environmental Policy

The principal high level document of the EMS is Lancaster University Environmental Policy, which is also the Facilities Environmental Policy. The policy identifies Lancaster University's principal significant environmental aspects and impacts, and sets overarching objectives to address these. The policy is consistent with the requirements of ISO14001:2015. A copy of Lancaster University Environmental Policy is presented in Appendix B.

4.3 EMS Aspects, Impacts, Risks & Opportunities

The assessment of environmental aspects and impacts, risks and opportunities are core elements of the Facilities EMS. Environmental aspects and impacts, have been assessed on a departmental or Facilities wide basis in order to determine their significance and as to whether specific objectives, targets or procedures are required to be developed to address them. Different categories of environmental risks and opportunities that may impact Facilities activities and operations are also considered and actions or initiatives developed to address those which are considered significant and over which Facilities has influence.

Facilities has overarching responsibility and control/influence for many areas of activities & operations that have significant institution wide (as well as Division level) environmental impacts at Lancaster University, and the Facilities sustainability plans summarised in section five below explain the strategic approach to these significant University environmental impacts.

4.4 Facilities Environmental Objectives & Targets

On the basis of the significant environmental aspects and impacts, risks and opportunities identified, Facilities develop Environmental Objectives and Targets, which are reviewed, updated and set on an annual basis. Facilities overarching objectives and targets may be complimented by more specific departmental or plan related targets. Facilities principal environmental impact category's, EMS objectives and example EMS targets are shown in Appendix C.

4.5 EMS Implementation & Maintenance

The Facilities EMS is implemented and maintained through issue specific Environmental Sustainability Plans, EMS and environmental issue procedures, staff training, audits, inspections and management reviews.



5 Facilities Sustainability Plans

5.1 Introduction

Facilities has developed a number of issue specific strategic plans to address those areas of its activities and operations with significant environmental aspects and impacts. The plans compliment the Facilities EMS and establish detailed longer term strategy's and objectives for specific environmental issues. The plans are delivered through projects and initiatives set out in annual 'action plans'.

5.2 Carbon Management Plan

Since Lancaster University adopted its Carbon Management Plan (CMP) in 2010 it has successfully reduced its (Scope 1&2) carbon emissions by over 50% from 25,899tCO₂e in 2005-06 to 12,887tCO₂e in 2018-19 and has achieved its carbon reduction target of a 43% reduction by 2020-21 compared to 2005-06 two years early. This decrease is a result of the implementation of an extensive range of carbon reduction projects including a wind turbine, combined heat and power engine, biomass boiler and many energy efficiency projects. The CMP provides a strategic route map, detailing how the University reduces its carbon emissions by using a range of policies, education initiatives and projects. Future emissions targets, proposed carbon reduction projects and projected carbon emissions are detailed in the document. Future versions of the CMP are anticipated to cover Scope 3 emissions (from travel & procurement), as well as the Scope 1&2 emissions which have been addressed in versions of the CMP between 2010 and 2020.

5.3 Travel Plan

Initially published in 2005, Lancaster University Travel Plan aims to support and enable university operations and development; through encouraging and facilitating sustainable transport choices for staff, students and visitors; and continually reducing the negative impacts of travel such as congestion, carbon emissions and air pollution. The travel plan includes targets for travel modes for staff and student commuters. The Travel Plan is implemented through annual Travel Action Plans detailing specific projects, initiatives and policies. Since adoption, the Travel Plan has helped students in particular and staff commuters to adopt more sustainable travel modes, with a consequent reduction in carbon emissions. The Travel Plan is monitored through regular travel surveys.

5.4 Waste Plan

The purpose of Lancaster University Waste Plan is to set out an overarching framework for waste management at Lancaster University. Adopted in 2012 the Waste Plan sets out the legislative requirements and Lancaster University drivers on waste management, as well as national and Lancaster University specific waste management targets. The waste plan establishes short, medium and longer- term strategic objectives and targets, structured in respect of the waste hierarchy, which detail how Lancaster University will meet its legislative and internal targets. The Waste Plan implemented through annual Waste Action Plans detailing specific projects and initiatives.



5.5 Energy & Utilities Plan

The Energy & Utilities Plan establishes a strategic plan for energy and utility management and development, identifying legal requirements, constraints and opportunities. Lancaster University energy consumption has significant environmental and financial impacts, and the Energy & Utility Plan aims to minimise energy costs, reduce energy waste and reduce carbon emissions. The plan sets strategic objectives for energy management covering compliance, efficiency, resilience, flexibility and low or zero carbon targets, as well as committing to take advantage of the opportunities available to the University in energy technology, research and innovation. The approach to energy management in respect of the specification of new buildings and major refurbishments is also established, as are the development plans, and efficiency and carbon reduction objectives for the University's energy and utility supply infrastructure. The Energy & Utility Plan is implemented through annual Action Plans detailing specific projects and initiatives.

5.6 Ecology Plan

Lancaster University's a Biodiversity Action Plan (BAP) was adopted in 2008. This provided an overview of the habitat structure and ecology value of the campus landscape and action plans for practical changes to improve landscape maintenance. With the expansion of the University and as maintenance changes have been completed a new document, the Ecology Plan, has been developed. The Ecology Plan takes a more holistic approach to the management of the ecology on campus, it sets a framework for decision making and looks at a number of thematic areas that both effect the ecology along with supporting the Universities core business of teaching and research. For each thematic area annual action plans are developed comprising projects and initiatives that both maintain and enhance the ecological value of the campus and other areas managed and maintained by the University.

5.7 Behaviour Change Plan

Behavioural change represents a key opportunity for Lancaster University whether in terms of saving energy and resources in order to reduce carbon emissions, integrating sustainability into teaching and research to improve understanding of environmental issues or through encouraging and 'normalising' sustainable behaviours for students, staff and the local community. The Lancaster University Behaviour Change Plan has been developed to instigate, facilitate and mobilise environmentally beneficial behavioural change in staff, students and visitors at Lancaster University. Adopted in 2015 and updated in 2017 the Facilities and Lancaster University Student Union (LUSU) contribution to the Behaviour Change Plan is delivered by Green Lancaster through annual Green Lancaster Action Plans. Many of the projects delivered under the plan contribute to the implementation of behaviour change elements in other Facilities plans and strategies including the Travel Plan, Waste Plan, Ecology Plan and Carbon Management Plan.

5.8 Other Plans

Other departments or operations within Facilities, which have significant environmental impacts, may develop environmental sustainability plans to establish a strategic approach to sustainability for their activities.



6 Environmental Sustainability Plan Implementation

6.1 Introduction

The Lancaster University Sustainability Plan is implemented through the strategy's established in the issue specific Facilities sustainability plans, such as the Travel Plan and waste Plan. These in term are implemented through a range of projects and initiatives set out in the annual action plans.

6.2 Budget & Resourcing

In order to implement the issue specific plans contributing to the Lancaster University Sustainability Plan and the annual action plans appropriate budgets and resourcing are required.

In respect of the **Energy & Utilities Plan** and **Carbon Management Plan**, a carbon reduction budget has been established to fund energy efficiency and carbon reduction projects. Major carbon reduction projects will require application for and allocation of capital funding, whilst energy efficiency and carbon reduction costs in new and refurbished buildings are required to be met out of the capital cost of the building project.

Delivery of projects in the **Waste Plan** is funded through several routes including the waste and recycling budget and Maintenance Investment Programme and project specific contributions.

Projects delivered by Green Lancaster under the **Behaviour Change Plan** are funded from the Green Lancaster Budget from Facilities and the students union, with infrastructure works funded from the maintenance Investment Programme.

Projects delivered as part of the **Ecology Plan** are normally funded via the Landscape manager's budget.

In addition to budgets, appropriate staff resources are necessary to enable delivery of Lancaster University Sustainability Plans. If resources are identified as being insufficient, Facilities management will be advised so remedial actions can be taken.

6.3 Update & Review

The Facilities Sustainability Plan and supporting issue specific environmental sustainability plans area reviewed and updated on a five year basis. This frequency aligns with the Estates Strategy.

6.4 Monitoring & Reporting

Implementation of Facilities Sustainability plans is monitored on an ongoing basis, through tracking of annual action plans and reported at the end of each academic year.



7 Governance

Environmental Sustainability governance structures within Facilities comprise the Sustainability management Group (SMG), the EMS Management, Steering and Focus Groups and issue specific sub groups such as SMG Transport.

7.1 Sustainability Management Group

The purpose of the Sustainability Management Group (SMG) is to provide a University wide management group to coordinate the development, implementation and operation of environmental sustainability plans, action plans and projects at an operational level. SMG is maintained by Facilities and includes representation from Facilities, Faculty and other professional Service staff.

7.2 Facilities Sustainability Governance

The EMS Management Review, Steering and Focus Groups provide governance, communication and review structures for the implementation and operation of the facilities ISO 14001 Environmental Management System. The EMS Management Review Group's biannual meetings enable senior Facilities management to track and monitor Facilities environmental performance, whilst the EMS Steering Group and Focus Group enable coordination with Facilities managers and supervisors.

Sub groups have been established to address governance of specific issues and requirements. In relation to travel this includes SMG Travel, which maintain oversight of the Travel Plan and HIC Travel Group, established to monitor and oversee the HIC Travelplan.

7.3 Strategic Sustainability Governance

At a strategic level, governance of environmental sustainability is the responsibility of the university management Advisory Group (UMAG) and the Vice Chancellor. A Pro Vice Chancellor member of UMAG has been appointed with specific responsibility for Environmental Sustainability across the University as a whole. SMG will provide information and reports to UMAG, the Pro Vice Chancellor responsible for Environmental Sustainability and other strategic sustainability groups as required.



8 Measurement & Reporting

8.1 Objectives, Targets and KPI's

Facilities environmental objectives and targets are set on an annual basis at the beginning of the academic year. The objectives reflect Facilities principal environmental impacts, with specific major projects/plans or performance levels being targets. The targets are aligned with the topic specific Facilities Sustainability Plans listed in Section 5. The targets are reviewed and approved by the EMS Steering Group and EMS Management Review Group. Selected targets are also set as KPI's.

8.2 Action Plans & Local Area Action Plans

Lancaster University Sustainability Plans are implemented through annual 'Action Plans' comprising projects and initiatives designed to deliver the objectives of a particular plan. The action plans are developed at the beginning of each academic year, with progress regularly monitored, and are reviewed at year end. Local area action plans are developed by specific Facilities departments and comprise internally generated environmental sustainability projects for delivery in a specific year.

8.3 Environmental Reporting

Facilities overall environmental performance and its progress in implementing its environmental sustainability, plans, projects and initiatives is reported in an annual internal Environmental Report.

8.4 External Environmental Reporting

External reporting on environmental performance includes annual reporting of Estate Management Statistics in February each year and submission of the AUDE/EAUC Green Scorecard. External reporting via the 'People and Planet Green League' has been submitted in the past.

9 Conclusions

The Lancaster University Sustainability Plan comprises Facilities contribution to Lancaster University Environmental Sustainability Plan. Facilities contribution to this plan is significant, due to the areas and issues it has responsibility for, but only part of an overall University Plan.

The Lancaster University Sustainability Plan establishes the context, and documents the framework for environmental management within Facilities.

It is essential that Lancaster University articulates a clear strategic response to the significant environmental issues affecting the planet and sets out a clear framework of plans, projects and initiatives, which address, and seek to reduce its own environmental impacts within appropriate timescales. The Lancaster University Sustainability Plan, its supporting plans, action plans, projects and initiatives comprise Facilities contribution to addressing Lancaster University's environmental impacts over which Facilities has control or influence.

Appendix A: Summary of Facilities Strategic Plans Contribution to Meeting The UN SDG's



The **Travel Plan** encourages sustainable travel, including cycling and walking, which has health benefits, contributing to SDG 3, and improves air quality, addressing SDG 11. Public transport and active travel also have lower carbon footprints than car travel, addressing SDG 13.



The **Ecology Plan** commits the University to protecting its grasslands, parklands and riverside landscape and fostering biodiversity on campus through initiatives like green roofs, living walls, establishing wildflower meadows, bat boxes on campus and nesting spaces for birds. It thereby contributes to SDG 15, which aims to protect and restore terrestrial ecosystems and halt biodiversity loss, and SDG 6, which targets freshwater ecosystems. By helping to conserve and enhance these natural resources the Ecology Plan will also help us be more resilient in the face of extreme weather events such as flooding and heat which will become more common with climate change, addressing SDG 13. LU's natural spaces also contribute to the well being of our staff, students and visitors by providing an environment to relax, enjoy the natural beauty and be physically active, thereby contributing to SDG 3.

The **Ecology Plan** further commits the university to provide appropriate mitigation and compensation for all losses of habitats and species affected by development proposals, contributing to SDG 9, and to ensuring our campus is 'green, resilient, safe and biological diverse', thus creating green and safe public spaces that are one aspect of SDG 11. By protecting trees and other vegetation on campus which remove pollutants from the air the plan also contributes to better air quality which is another aspect of SDG 11. Lastly, the Ecology Plan sets out the University's aim to actively support teaching and research into ecology, habitat and landscape management, thereby contributing to teaching the knowledge and skills for sustainable development and sustainable lifestyles (SDG 4).



Through the **Energy & Utilities Plan**, the University recognises its duty to minimise energy use, reduce energy waste and carbon emissions, and to improve the resilience of its energy supplies, addressing SDG 7. In order to decrease carbon emissions, the university has installed more efficient heating systems and reduced electricity consumption, allowing us to use fewer natural resources (SDG 12), while its commitment to build infrastructure with much higher efficiency and to improve the efficiency of existing buildings further contributes to SDG 9.

The **Energy & Utilities Plan** also commits the University to integrating knowledge about energy, carbon and ecology into its teaching, contributing to SDG 4 which includes education to gain the knowledge and skills for sustainable development and sustainable lifestyles.



The **Waste Plan** contributes to SDG 12 by increasing resource efficiency and reducing material consumption and to SDG 11 by decreasing the adverse effects of waste on municipalities.



With its target of carbon emissions reductions of 43% by 2020 and 83% by 2050 relative to 2005, the University's **Carbon Management Plan** directly addresses the threat of climate change (SDG 13). In addition, student carbon competitions and staff and student campaigns have raised awareness around carbon reduction.



The University's **Behaviour Change Plan** outlines the University's commitment to support a sustainable behaviour shift in staff, students and visitors. These include sustainable food growing activities (SDG 2), the energy saving Switch Off competition (SDG 7), second hand bike sales and on-campus bike repairs encouraging sustainable travel (SDG 11), the annual 'don't Ditch It, donate it' campaign (SDG 12), climate change awareness initiatives (SDG 13), and bee keeper training and tree planting (SDG 15).

Appendix B: Lancaster University Environmental Policy

Lancaster University understands its responsibility to protect the environment from the impact of its operations and activities and to influence its staff and students and the wider community to minimise their impact through its actions, teaching and research. The University is committed to fulfilling its compliance obligations, including the requirements of all relevant environmental legislation and guidance and to continually improving its environmental performance through the establishment of environmental objectives.

- Improve the environmental awareness of staff, students and residents and support them in reducing their environmental impact, both at the University and beyond, through the implementation of sustainable environmental practices.
- Use our research, where appropriate, in developing environmentally beneficial projects and products and improve the sustainability of our research activities.
- Implement a Sustainable Procurement Policy which reduces the carbon and environmental impacts of our procurement activities.
- Reduce carbon emissions from energy and utility consumption.
- Provide students with the opportunity for involvement in sustainability related curricular and extra-curricular opportunities and activities.
- Develop and implement a strategy to manage and reduce waste according to the waste hierarchy.
- Continue to support its Travel Plan and enhance travel options, decreasing carbon and other emissions from staff and student commuting and University fleet vehicles.
- Optimise its impacts from business and other travel, providing information to enable users to minimise their travel related emissions.
- Prevent pollution and manage emissions and discharges.
- Aim to use resources sustainably and target appropriate reductions in consumption.
- Achieve high environmental (BREEAM) standards for new build and redeveloped buildings.
- Enhance the biodiversity and sustainability of the University's landscape and grounds.
- Monitor measure and report on the environmental impacts of University's activities, operations, research and teaching.

In order to support the implementation of Lancaster University's Environmental Policy, time bound objectives and targets have been set. The policy will be reviewed by the University Management Advisory Group (UMAG).



Appendix C: Facilities Principal Environmental Impact Category's, EMS Objectives & Example EMS Targets

Environmental Impact or Aspect Category	Environmental Objectives	EMS Target (example annual targets)
Waste Management	To achieve measurable continuous improvement in waste reuse-recycling and recovery	Reduce annual residual waste to landfill per head to annual target value of 28kg/head* 90% waste reused/recycled or recovered
	To achieve best practice in waste management, minimising waste generation and encouraging reuse and recycling initiatives	Continue implementation of Waste Plan, produce Waste Action Plan for 2019-20
Carbon Management	To understand, control and minimise the use of energy and reduce carbon emissions	Reduce Scope 1&2 carbon emissions to annual target value (15,401tCO ₂ e)*
		Develop revised version of LU Carbon Management Plan based on CMP assessment project.
	Undertake assessment of LU CMP, LU carbon emissions, emissions targets and emissions reduction projects in context of IPCC Global Warming of 1.5C report and climate emergency declarations.	
	Ensure compliance with Carbon Reduction Legislation	Re-accredit to the Carbon Trust Standard
Utility Management	To understand, control and minimise the use of energy and reduce carbon emissions	Implement Energy & Utility Plan projects for 2019-20
		Reduce grid electricity consumption by 5%
		Reduce gas/oil consumption by 5%
Transport	To improve sustainability in travel and transport	Publish & Implement 2019-20 Travel Action Plan
Biodiversity, Landscape & Grounds	To maintain, improve and promote Lancaster University campus Biodiversity and grounds	Commence implementation of Ecology Plan & implement 2019-20 Ecology Action Plan projects
		Maintain Green Flag Accreditation
Catering & Sustainable Food	To maintain and increase the provision of sustainable and ethical food and drink	Maintain Soil Association 'Food for Life' Catering Mark accreditation levels

Environmental Impact or Aspect Category	Environmental Objectives	EMS Target (example annual targets)
Construction & Refurbishment	Ensure sustainability is embedded within the design and construction process	Achieve BREEAM 'outstanding' standard for all new buildings and BREEAM 'Excellent' for all renovation/ refurbishment projects (design & construction)
		Develop alternative/improved sustainability accreditation systems to BREEAM in order to strengthen energy performance and environmental sustainability of new and refurbished developments during their development and operation
Emissions and Discharges	To prevent pollution to land and water	Update Facilities contingency plans relating to Environmental emergency's and undertake test of the emergency response plans
Environmental Management & Governance	To improve environmental management	Retain accreditation to ISO14001:2015 over external audits.
		Commence meetings of LU revised sustainability governance structures
		Initiate and participate in production of LU Sustainability Strategy
Behaviour Change	To encourage and integrate sustainable behaviours at Lancaster University	Implement Green Lancaster Action Plan for 2019-20 (Behaviour Change Plan) Participate in NUS 'Student Switch Off' energy saving campaign in 2019-20
Environmental Communications	To Improve communication of Lancaster University Environmental initiatives	Contribute to Implementation of 2019-20 energy saving and carbon reduction project.
		Develop environmental induction process for students and staff to use on campus wide basis



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“We make campus an inspiring place to be”

If you wish to discuss any aspect of the University’s Sustainability Plan, please contact:

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