

This Plan sits alongside the Campus Management Climate Action Policy, which sets our policy commitments to achieve carbon reduction towards net zero and the effective management of environmental impacts, in line with the Campus Management strand of the Climate Action Strategy and the University's ISO certified environmental management system.

It sets out long and short term objectives for each policy commitment to both achieve the University's carbon goals, and where relevant, the reduction of other relevant environmental impacts identified through the ISO systems. This version of the Campus Management Climate Action Plan includes long term targets to meet 2030 commitments as well as short term objectives to complete in the 2024/25 year.

Progress against these objectives will be monitored and reported annually to the Climate Action Strategy Group, and the Campus Management Monitoring Tool will be used as a live document to project actual energy consumption and annual targets as well as the potential carbon impact of actions whilst recording achievements to continually monitor progress against the 2030, 2038 and 2050 targets of the University's Climate Action Strategy. The tool will be used to highlight where targets are or are not being achieved, with findings inputting into annual reviewed objectives to ensure they remain as accurate, relevant and realistic as possible.

## Plan Commitments



### Campus Energy Management

(Scopes 1 and 2)

2018/19 Baseline footprint

- 8,046,229 kg CO<sub>2</sub>e
- 36,484,350 kWh

2022/23 Most recent completed footprint

- 6767739 kg CO<sub>2</sub>e
- 15.89% reduction from baseline (14.24% projected target)

2030 Target reduction net zero on direct emissions

Purchased electricity and heat used on the estate equates to a sizeable proportion of the Scope 2 carbon footprint for SHU. A considerable proportion of the potential savings of the University's Scope 2 carbon footprint is projected to be achieved through grid decarbonisation over future years (to 2030), the remainder of the potential savings will be achieved through developing a smaller, better utilised and more energy efficient estate, details of which are identified below within the Campus Development section, a commitment to the procurement of 100% green energy and through ongoing effective energy management.

It has been identified that to further improve energy reporting and management, building level targets would improve the University's ability to have an overview of consumption and better targeted energy projects. The University is committed to maintaining university wide energy and carbon reduction, consistent with the downward trajectory achieved in the application of the previous Environmental Plan. To achieve this, a 'Climate Action Readiness Plan' will be created to establish a more detailed baseline of carbon (and equivalent) emissions across the

campus at building level and develop bespoke targets and action plans based on this to achieve in the long term.

To achieve these long-term objectives, the following actions have been set for the 2024/25 year:

- Assess suitability of carbon assessments and potential projects in key buildings across the estate to potentially pursue and further increase energy efficiency
- Create energy plan for each key building using DEC data as baseline
- Analyse energy data to identify savings through small projects and interventions, to reduce baseload consumption across the estate
- Begin process of purchasing energy that meets UKGBC (UK Green Building Council) criteria to be recorded as 100% green.



### **Campus Development**

(Scopes 2 & 3)

- 2018/19 Baseline footprint as above
- Development on campus including physical interventions, planned maintenance and the accelerated campus plan are projected to reduce the direct energy consumed (kWh) by 41% by 2030, with decarbonisation of the grid this is projected to reduce the carbon footprint of the physical estate by 53% compared to the baseline.

The effective development of the estate is one of the most significant carbon savings that can be achieved. The long-term target is to achieve savings outlined above, taken from the Climate Action Strategy, by implementing the accelerated campus plan. In the long term, this will reduce the size of the estate by 30% and ensure the construction of efficient buildings and facilities. In 2024/25 short term objectives are:

- To continue to monitor estate development through carbon tracker tool to ensure projects continue to improve energy efficiency and reduce emissions across the estate
- To undertake a full review of the physical interventions outlined in the Climate Action Strategy to assess feasibility and develop project plan for 2030
- Implement projects specific Climate Impact Assessment



## Travel and Transport

(Scopes 1 and 3)

2018/19 Baseline footprint

- 30.052 kg CO<sub>2</sub>e (Scope 1 – fleet)
- 4,349,589 kg CO<sub>2</sub>e (Scope 2 – business travel and commuting)

Scope 1 travel is the fuel used by the University's leased vans and vehicles used across the estate, this has decreased through the years as more electric vans have been added to the fleet and continues to reduce through a cyclically replacement programme.

Scope 3 travel is much wider. The staff commute and business travel are areas that have been monitored for years through the ISO system, however the University has little information on student travel, which, when accounting for overseas students, is potentially a large element of the University's scope 3 carbon footprint. The long-term target is to halve the University's scope 3 emissions by 2030, and be net zero in scope 3 by 2050, however, to achieve this, the University first needs to know how large the footprint is.

During the 2023/24 year, the University launched its university wide travel plan to meet the long-term targets and encourage active travel through communications, initiatives, infrastructure and the accelerated campus plan. Actions to complete in the 2024/25 year are:

- Enhance scope 3 reporting through integration of expense and procurement data and expand carbon monitoring tool to incorporate
- Continue electrification of vehicle fleet as projected in Climate Action Strategy (42.68% reduction in CO<sub>2</sub>e compared to 2018/19 baseline)
- Continue to monitor scope 3 travel including student travel through distribution of staff and student travel surveys, fleet tracking and travel provider data



## Water Management

(Scope 3)

2018/19 Baseline (water and wastewater);

- 92,810 kg CO<sub>2</sub>e
- 178,025 m<sup>3</sup>

Target to halve scope 3 emissions by 2030.

Whilst water consumption is a small part of the University's Scope 3 carbon footprint, the consumption of water as a natural resource is a significant environmental impact as identified through the University's ISO management system. The baseline water consumption has decreased, largely due to a move towards more hybrid working for staff and students.. Long term scope 3 targets are to halve emissions by 2030, however it is felt more data, is required to set better informed long- term consumption targets. Actions to achieve for 2024/25 are:

- Continuous monitoring of consumption and application of reduction projects as identified
- Use data and projects planned to estimate achievable long term water consumption targets



### Waste Management

(Scope 3)

2018/19 Baseline;

- 14,825 kg CO<sub>2</sub>e
- 706.5 tonnes produced (30% recycled/recovered)

2030 Targets;

- To halve scope 3 emissions
- To have achieved full roll out of centralised recycling stations across the estate

As with water, the production and disposal of waste is a relatively small proportion of the University's scope 3 footprint, however the disposal of approximately 460 tonnes of waste (2021/22) per year is a potentially significant local environmental impact as identified through the University's ISO system.

The University has overachieved all waste targets in previous Environmental Plans and put in place many waste management procedures and controls including behaviour change campaigns, provision of segregated streams and diversion of all waste from landfill. It is felt that a move away from data driven targets and focus on achieving high level objectives would have a greater positive influence on the environmental impacts of waste management and any improvement in waste practices would have a positive impact on the Scope 3 emissions. In addition to applying procurement actions as outlined in this plan, which would reduce waste produced, long term waste targets are to achieve a 100% roll out of centralised recycling stations across campus by 2030, which should improve both segregation rates and waste produced, as well as reducing scope 3 emissions embedded within the waste management process. The success of these schemes will be measured in the data, but not driven by it. Annual targets will be set and reviewed to achieve these objectives, for 2024/25 waste objectives are:

- Continued data collection to be maintained as measure of success as roll out of recycling stations continues
- In depth data analysis (recycling rates and quantities) to be undertaken on buildings with the recycling stations already installed, measured success to be used to further the roll out of the waste stations

- Although a baseline scope 3 footprint has been developed in the Carbon Action Toolkit, this has been developed according to sector averages according to weights, by working with the University's waste contractors and looking at the process a much more accurate footprint could be developed. The aim is to calculate average carbon figures per bin collection (or similar calculation to be discussed) and CO<sub>2</sub>e of disposal and consequently update the Carbon Management Monitoring Tool.



### **Green Infrastructure**

2018/19 Baseline 273 species on site  
Target to increase species and/or provision by 20%  
by 2030

How the University interacts with and impacts its surrounding environment is potentially significant within the ISO systems and a holistic climate action approach. There are several activities in place which should positively impact the natural environment around the University campus, including the accelerated Campus Plan which will introduce significant new green spaces and the ongoing 3-year Grounds Management Plan, which includes diversifying planting, creation of wildflower areas and encouragement of both flora and fauna onto the Estate. The University has previously undertaken annual biodiversity surveys to assess the number of species on campus, which will continue to be undertaken as a measure of success of these schemes and data used to set ambitious biodiversity targets within the Accelerated Campus Plan. Actions for the 2024/25 year include:

- Conducting the 2024 biodiversity survey
- Incorporate results into Campus Plan targets and remain on track to deliver
- Continue to apply the Grounds Management Plan aligned with outcomes of biodiversity survey



## Procurement

(Scope 3)

2018/19 Scope 3 Baseline footprint 27,254,000 kg CO<sub>2</sub>e

Target to halve scope 3 emissions by 2030.

Procurement is potentially the largest section on the University's scope 3 footprint, using the Higher Education Supply Chain Emissions tool, it has been estimated at almost 4 times the size of the University's combined Scope 1 and 2 emissions. This includes central procurement, ICT, maintenance as well as food and catering. The University's long-term target is to achieve net zero in Scope 3 emissions by 2050 and to have made significant progress by 2038.

This is the first time the University has mapped its procurement carbon footprint. So far two years' worth of data has been mapped in the Campus Management Monitoring Tool and emissions have been estimated according to spend. These two years demonstrate a wide variation especially in central procurement spending due to COVID lockdowns, IT spending to respond to the move to hybrid and remote working, as well as variations due to onsite construction projects. Whilst it is positive this is now being mapped, a few more years data will provide a more accurate picture.

Procurement across the University presents a large challenge due to the size of activity and number of stakeholders making purchases across all departments. It requires both behavioural and cultural change across the whole organisation and it cannot be tackled by a single workstream or Directorate. Elements of this are included within the Leadership and Governance workstream of the Climate Action Strategy to influence practices and alternative approaches to commit to carbon and ethically responsible decisions whilst moving towards holistic assessment of supply chains embedding full lifecycle implications into decision-making. Within the Campus Management workstream, procurement impacts are most evident within the catering environmental risk profile, particularly local impacts. Long term ambitions include moving towards a more plant based and locally sourced menu, with over 50% sourced from within the Sheffield City Region, delivered through the Hallam Sustainable Food Policy. Actions to achieve over the 2024/25 year include:

- Continuing to use and develop the Hallam Sustainable Food Policy and begin to develop sustainable food metrics and KPIs to incorporate into the long-term plan
- Measure and report on % food purchased from Sheffield City Region

## Beyond Campus Management

Whilst the above Campus Management Climate Action Plan covers all areas of potentially significant environmental risk on campus as identified through the ISO management systems, there are areas that span across multiple strands of the Climate Action Strategy, such as procurement which require a collaborative and integrated approach which will be applied throughout the project. Another of these is offsetting, whilst the majority of actions to achieve

net carbon zero in scope 1 and 2 emissions by 2030 sit within Campus Management, it is likely that some offsetting will be required. Leaving this until the plan and strategy is significantly underway to see the success of schemes could result in a large expense. Having started in 2023, the University commenced assessing likely successes through the Campus Management Monitoring Tool which supports with calculating and identifying an annual offsetting budget. Due to large potential budget implications, this sits outside of Campus Management, within the Governance and Leadership strand of the Climate Action Strategy, however monitoring, measuring, progress and actions undertaken as part of this Plan will be provided to inform offsetting decisions.

Further Information:

[Campus Management Climate Action Policy](#)  
[Sheffield Hallam Climate Action Strategy - 2023.pdf](#)