# Sustainability Sub-Strategy Bitesize

## Priority 1: Scope 1 and 2 Carbon Emissions

# Table of Contents

# Introduction

Our Sustainability Sub-Strategy outlines out commitment to acting in response to the climate and ecological emergency, while supporting the University's mission of excellence in education and research, for the benefit of individuals and communities.

## Priority 1: Scope 1 and 2 Carbon Emissions

Cutting carbon emissions is a vial and central aspect of reducing our impact on the environment. Progress on reducing scope 1 and 2 emissions has been made, which have fallen by 28% (against a 2005 baseline) as a result of greater energy efficiency and decarbonisation of the national grid. Our focus now is to reach net zero carbon emissions, in like with the 2008 Climate Change Act, by 2035 with a maximum offsetting of 3,000 tonnes. We will deliver energy reduction projects and generate significantly more of our own renewable energy. Through our community and partners taking responsibility for their actions and contributing through behavioural change by actively reducing their use of electricity, we will make substantial progress on our journey to net zero carbon emissions. By reducing our electricity and gas usage we will make significant savings on our annual utility bills. We will adopt the carbon reduction hierarchy of avoid, reduce, restore and offset.

### Objective: Reduce scope 1 and 2 carbon emissions by 76% by 2035

- We will significantly progress on our journey to net zero carbon emissions by reducing our overall energy use and carbon emissions.

- We will increase our use of renewable energy generation from a 2019 baseline to reduce reliance on the grid, reduce our carbon emissions and reduce our spend on electricity, while continuing to source 100% of the electricity we do purchase from green tariffs.

- We will increase our understanding of energy use through our estate, analysing data to make informed decisions.

### Key Performance Indicators

KPI 1: By 2035 scope 1 and 2 carbon emissions reduced by 76% from 2019 baseline

KPI 2: By 2026 25% of our electricity is generated through renewable sources

# Action Plan

| Type | Year | ID | Objectives and deliverables | Objective Owner |
|------|------|-----|-----------------------------|-----------------|
| **Priority 1** | | | **Scope 1 and 2 Carbon Emissions** | |
| **Aim** | | | **Reduce scope 1 and 2 carbon emissions by 76% by 2035** | |
| **Objective** | | **SSS01** | **Reduce scope 1 and 2 carbon emissions** | |
| Deliverable | 2025/26 | SSS01.1 | Create by 21/22 and implement by 25/26 a Carbon Management Plan (CMP) which meets the Carbon Trust and most current Capital Investment Framework (CIF2) requirements and sets out clear measures and time-frames | Head of Energy and Carbon Reduction |
| Deliverable | 2021/22 | SSS01.2 | Create and implement an energy policy to include building temperature and heating duration protocols | Head of Energy and Carbon Reduction |
| Deliverable | 2021/22 | SSS01.3 | Introduce a 'best working practice' leaflet/digital media communication to guide our community on the ways they can contribute and make a difference | Head of Energy and Carbon Reduction |
| Deliverable | 2021/22 | SSS01.4 | Develop and implement a behavioural change communication and engagement plan to educate our community on the part they need to play | Sustainability Manager |
| Deliverable | 2022/23 | SSS01.5 | Achieve Carbon Trust Standard for reducing CO2 year on year | Head of Energy and Carbon Reduction |
| Deliverable | 2021/22 | SSS01.6 | Include Carbon Management plan in CEG and allow members including students to input | Head of SAG |
| Deliverable | 2021/22 | SSS01.7 | Develop a set of principles for carbon offsetting that aligns with the carbon management hierarchy of avoid, reduce, replace offset | Head of SAG |
| **Objective** | | **SSS02** | **Significantly increase electricity generation through renewables by 2026** | |
| Deliverable | 2025/26 | SSS02.1 | Create and implement a plan to self-generate further renewable electricity | Head of Energy and Carbon Reduction |

| Type | Year | ID | Objectives and deliverables | Objective Owner |
|------|------|-----|------------------------------|------------------|
| **Objective** | | **SSS03** | **Develop a better understanding of energy use and carbon emissions of our buildings** | |
| Deliverable | 2023/24 | SSS03.1 | Calculate total carbon emissions attributed to residential accommodation (both in-house and externally provided accommodation) | Head of Energy and Carbon Reduction |
| Deliverable | 2024/25 | SSS03.2 | Create and implement a prioritised plan to sub-meter gas, electric and water utilities to main buildings across all 3 campuses | Head of Energy and Carbon Reduction |
| Deliverable | 2025/26 | SSS03.3 | Undertake a review and action recommendations from the analysis of sub-meter data to better understand the baseload of buildings, trends and comparators | Head of Energy and Carbon Reduction |
| Deliverable | 2025/26 | SSS03.4 | Undertake a review and action recommendations from the analysis of BMS systems to better understand how energy is used within our buildings | Head of Energy and Carbon Reduction |
| Deliverable | 2025/26 | SSS03.5 | Undertake a review and action recommendations from the analysis of building use and occupancy to better understand the requirements of our buildings so energy usage can be optimised | Head of Energy and Carbon Reduction |