



# ARTS UNIVERSITY BOURNEMOUTH

## Sustainability and Net Zero Programme: Annual Report 2022-2023

As part of its commitment to sustainability the University developed a Sustainability and Net Zero (SNZ) programme of works.

A SNZ Task Force is established as a decision and action planning group which reports to the Environment Committee.

The SNZ is owned and monitored by Environment Committee, reports progress to the Vice-Chancellor's Group of the Board of Governors.

AUB has ISO14001:2015 and EcoCampus Platinum certification.

There are six immediate areas of focus.

- **Energy and Water**
- **Sustainable Resource Management**
- **Travel**
- **Sustainable Campus**
- **Biodiversity**
- **Social Justice**

## Introduction

Arts University Bournemouth (AUB) acknowledges global climate change and the ecological crisis and wishes to play its part in mitigating against unwanted outcomes of these issues. Furthermore, AUB is aware of its own environmental impacts, through operational practices and capital projects, and is committed to eliminating, reducing or compensating where this is not possible, these impacts in an innovative, efficient, and transparent way.

Our Sustainability and Net Zero (SNZ) Programme of works is AUB's response to mitigate and adapt to these impacts. This is our annual report for the 2022-2023 academic year and is structured around a Net Zero Summary and our six main areas of focus.

### Message from the Principal and Vice-Chancellor

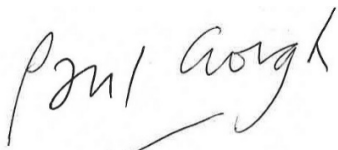
At the heart of the AUB Strategy are four core values that guide our practices and behaviours. Of the four, our value of staying 'connected' speaks powerfully towards the AUB Sustainability Programme, and our ambitions towards neutrality:

*"We are better for our diversity. We are enriched by the depth of respect we have for each other and the strength of our relationships with our people, our places and with the planet. Through our commitment to working with those who are different to us, or challenge us, we grow stronger together, creating new synergies, global connections and sustainable futures."*

Our commitment to an environmentally sustainable future builds on significant achievements at AUB over the past five years. Having already achieved ISO14001:2015 and platinum status as an Eco-Campus, during the lifetime of this Strategy, we will embrace the spirit and practices of the United Nations Sustainable Development Goals across all aspects of AUB's teaching, research and engagement. We are already seeing this in the new undergraduate curriculum, which staff have co-designed.

We have shown real commitment in becoming a signatory of the Global Climate Letter for Universities and Colleges, issued through EAUC (Environment Association for Universities and Colleges), and AUB has committed to reach net zero by 2030. We have gained certification as a registered Fairtrade university, with the top grade 3 stars. During 2020/21 AUB was presented on the global Fairtrade website as one of three HEI case studies for Fairtrade. We create a great many environmentally sensitive and progressive projects across the University, through AUB Human and through live and simulated briefs. These will continue to expand and deepen.

These are all significant achievements for which AUB ought to feel proud. But there is always more to do. The programmes of work set out in the document will be supported by the University and our Board of Governors as we move creatively - and credibly - towards a sustainable and net zero future.



**Professor Paul Gough**  
**Principal and Vice-Chancellor**

AUB's Sustainability and Net Zero programme and Values will aim to support the 17 UN Sustainable Development Goals.

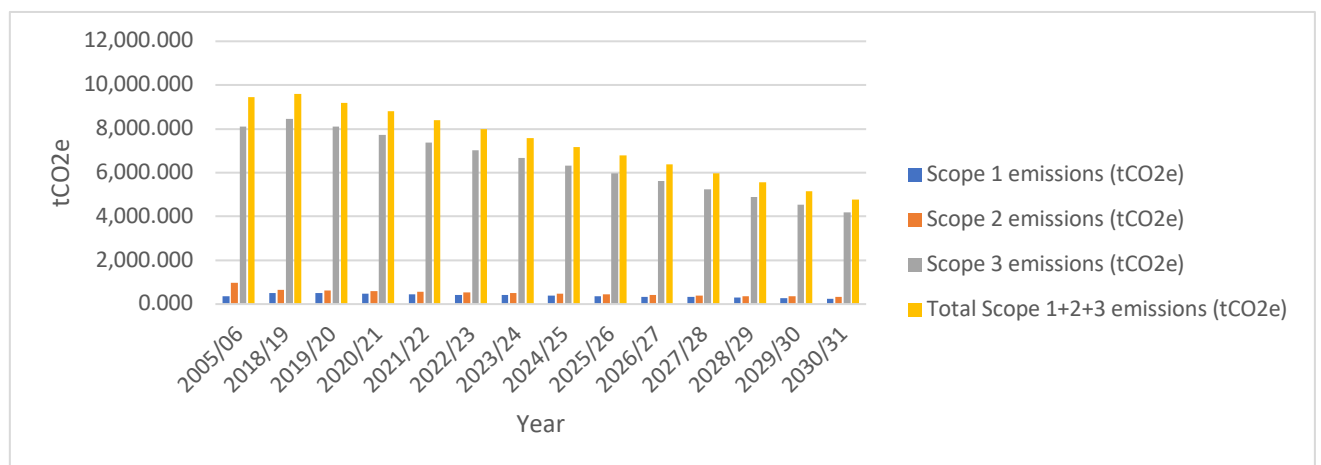


### Net Zero Summary

AUB achieved a 48% reduction in CO<sub>2</sub>e against a 2005/06 baseline in 2019/20. This was based on the Sustainability Plan 2015-2020 scope and remit. The Sustainability Plan was extended until 2021 to allow for campus closure during this period and to allow time for a new programme of works.

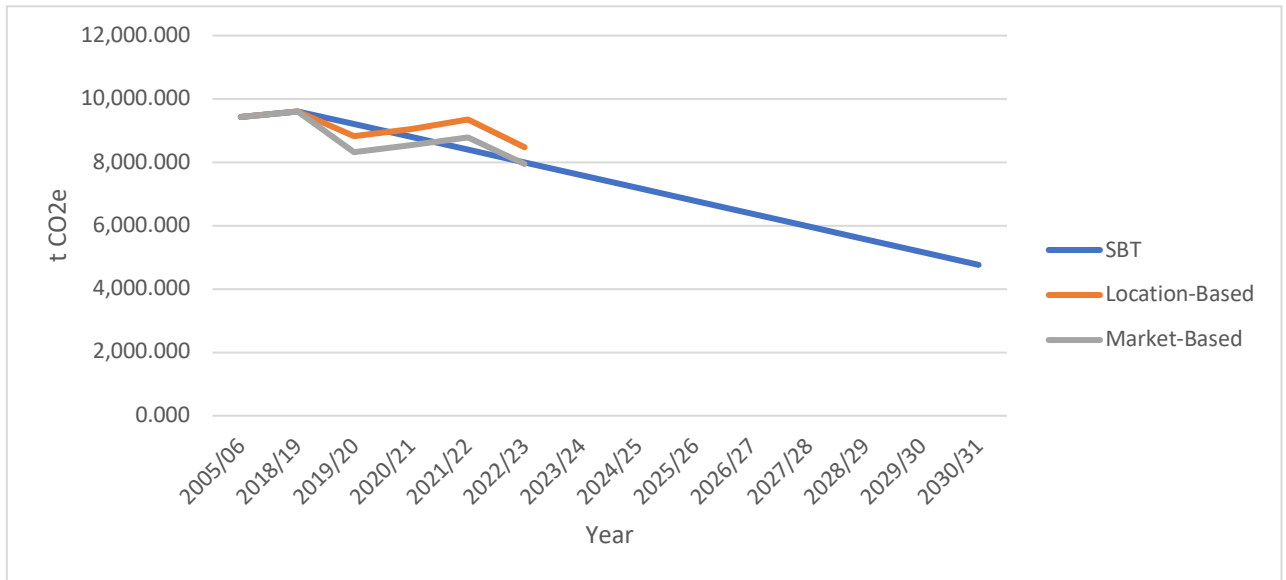
A Net Zero Task Force was established in September 2021 and reports and is accountable to the Environment Committee. The SNZ programme is live and published on [AUB website](#) (version 2 of the SNZ will be available in June 2024 and this report is reported against this).

AUB uses a science-based target (SBT) to set the trajectory of decrease, limiting emissions on the path to net zero, and set the minimum emission decrease prior to any potential neutralisation. AUB uses an absolute reduction approach following a 1.5°C trajectory as recommended by the IPCC. The SNZ inventory has been updated to align with the Standardised Carbon Emission Framework (SCEF) with the historical baseline 2005/6 and more recent baseline 2018/19 also updated to include emission streams that were not included at the time. Figure 1 demonstrates what a 1.5°C absolute reduction trajectory will look like for the proposed SNZ inventory. It breaks down the level of reduction per scope alongside the total (all scopes) reduction trajectory. The Science-Based-Target sets a 50% reduction target from 2018/19 to 2030/31.



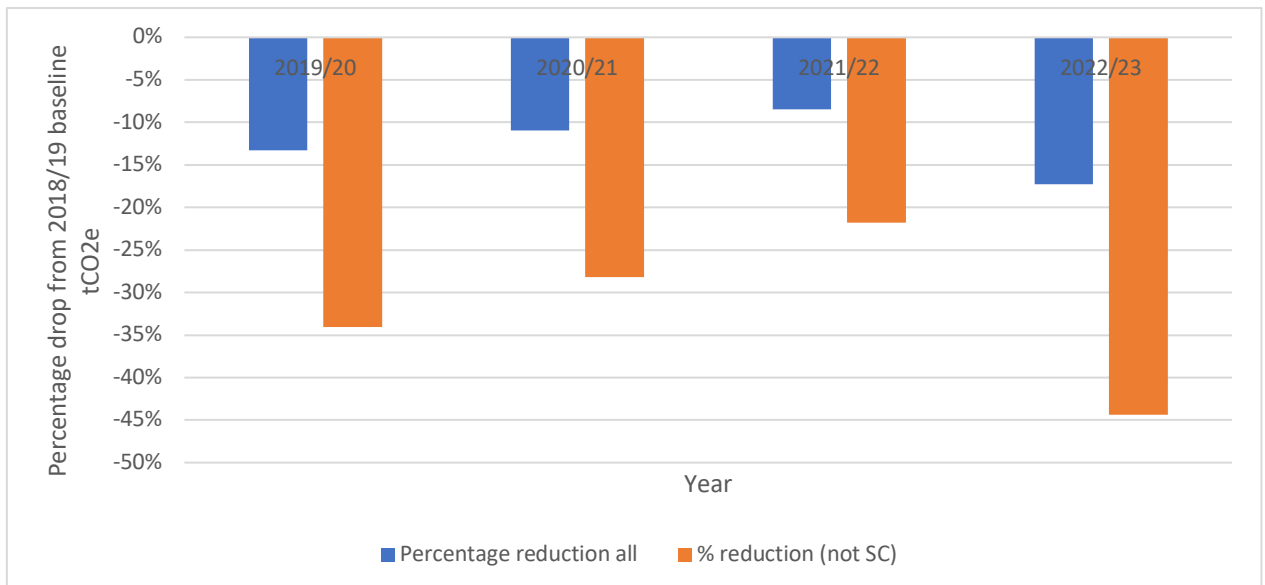
**Figure 1.** SNZ Science-Based-Target with both 2005/06 (historical) and 2018/19 (SNZ) baselines adjusted to align with SCEF.

Figure 2 shows that in 2022/23 AUB has reduced emissions (tCO<sub>2</sub>e) against 2018/19 baseline by 22% (Market-Based) (net-zero), and by 16% (Location-Based).



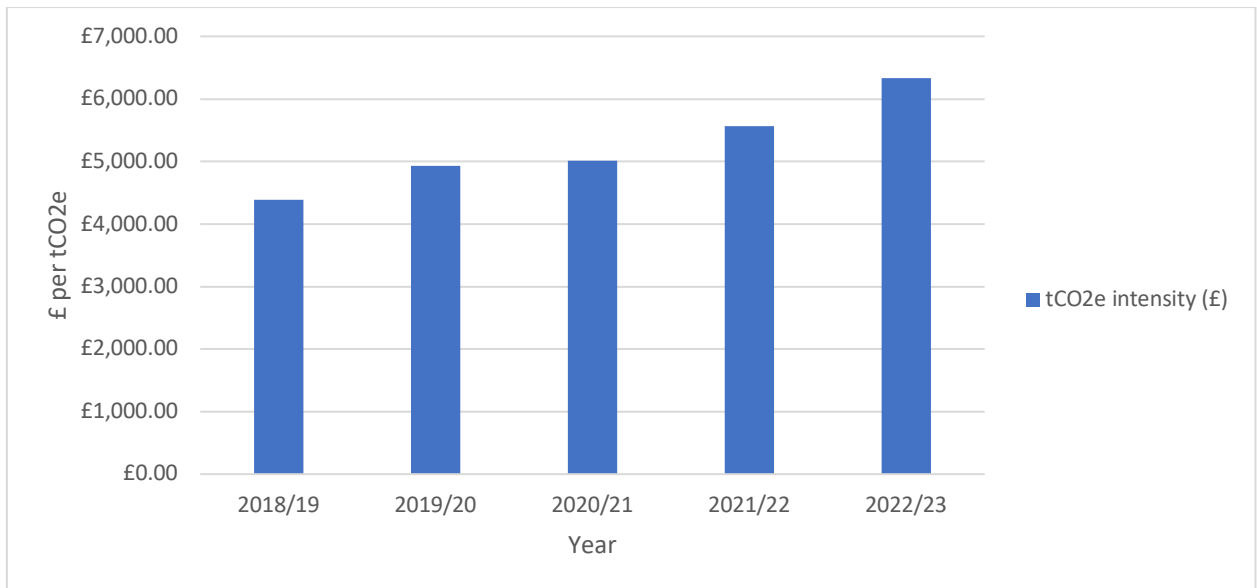
**Figure 2.** Science-Based-Target 2005/06, 2018/19 to 2030/31 target alongside Location-Based and Market-Based (net zero) performance.

Figure 3 shows the percentage reduction in tCO<sub>2</sub>e (Market-Based) from the 2018/19 baseline. The orange bars represent the percentage decrease if the supply chain data is not included and demonstrates the size and effect that it has on targets and results.



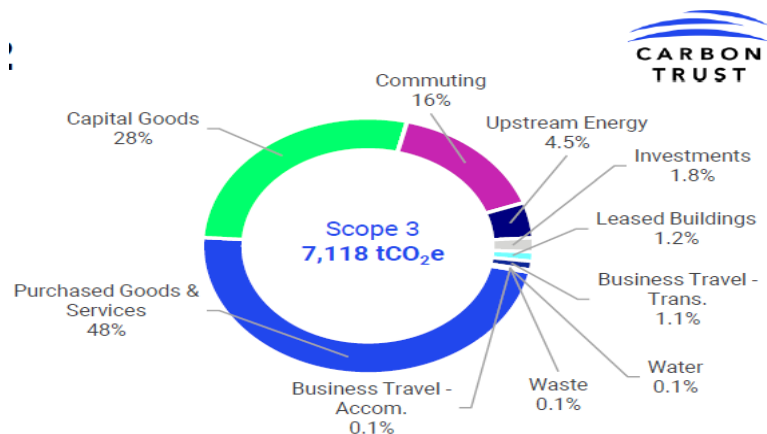
**Figure 3.** Percentage reduction in tCO<sub>2</sub>e from 2018/19 baseline for overall reduction and excluding supply chain reduction.

Figure 4 shows the amount AUB spends per tCO<sub>2</sub>e which has increased from 2018/19 baseline £4,387.36 to 2022/23 figure of £6,683.84.



**Figure 4.** £ spend per tCO<sub>2</sub>e.

AUB appointed the Carbon Trust to calculate its scope 3 emissions (many were already calculated) with the main aim to map the supply chain emissions. The report noted a total of 7,118 tCO<sub>2</sub>e scope 3 emissions of which 5,867 tCO<sub>2</sub>e were in addition to the SNZ (and thus those already calculated). The 5,867 tCO<sub>2</sub>e total is used for 2022/23 emission totals also. A Sustainable Procurement working group is to be established in 2024 to address the emissions related to the supply chain.



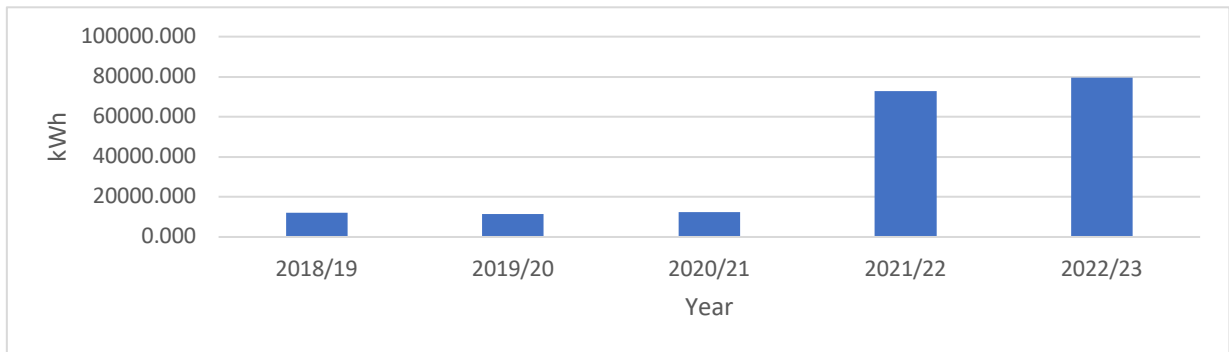
**Figure 5.** Percentage of emissions per category for 2021/22 inclusive of scope 3 emissions already counted.

### Focus 1: Energy and Water

Much of what AUB is trying to achieve will be successful only with behaviour change. The current energy crisis has brought into focus the requirement for efficiency gains, yet these are behaviours and practices and in consequence efficiencies that are required in perpetuity. To encourage behaviour change we need to make - making the right decision - easy and convenient when possible. It will not always be possible to do this, but we should strive to achieve this.

AUB was successful in gaining Salix funding to replace the gas boilers in North Building with air and water source heat pumps. The Grant was received a little later than normal and so the project has certainly been a challenge but an exciting one none the less. The project installation phase begins in March 2024 and is scheduled for completion in August 2024. Air source heat pumps are already in place and used for the underfloor heating in the Innovation Studio and for space heating in the North Building photography extension.

The introduction of PV on the Campus Halls roofs has increased the kwh generated through renewables.

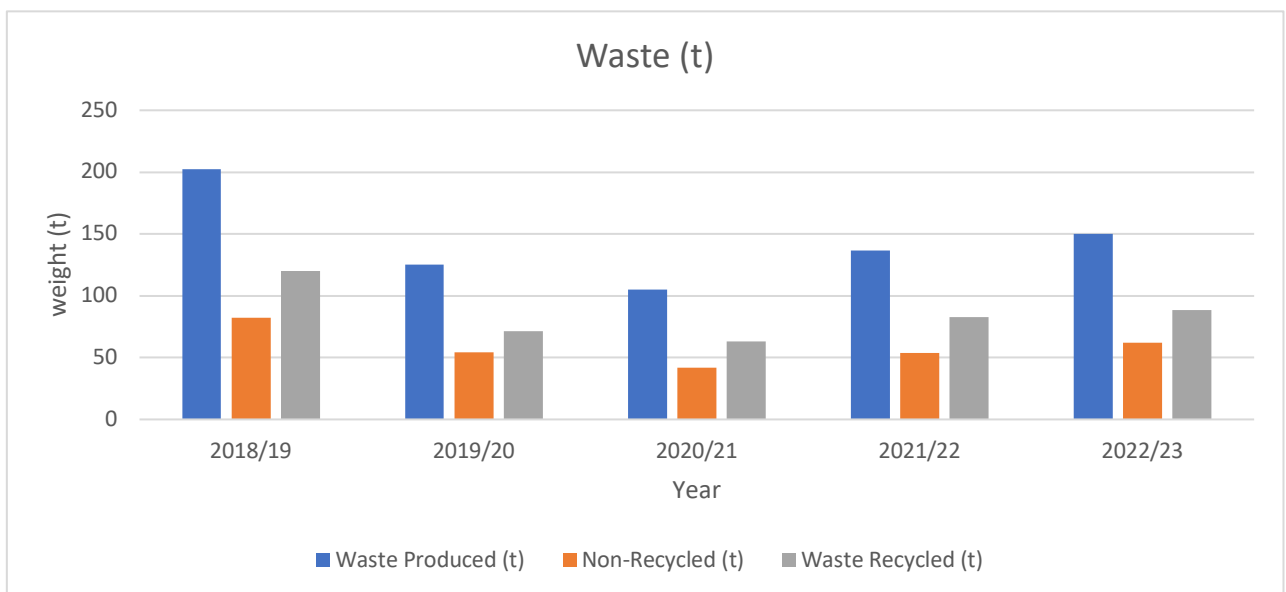


**Figure 6.** PV generated energy (kwh).

AUB purchases REGO electric supply and is looking long-term to join a TEC PPA supply agreement. Furthermore, AUB has now joined the TEC water and wastewater supply framework.

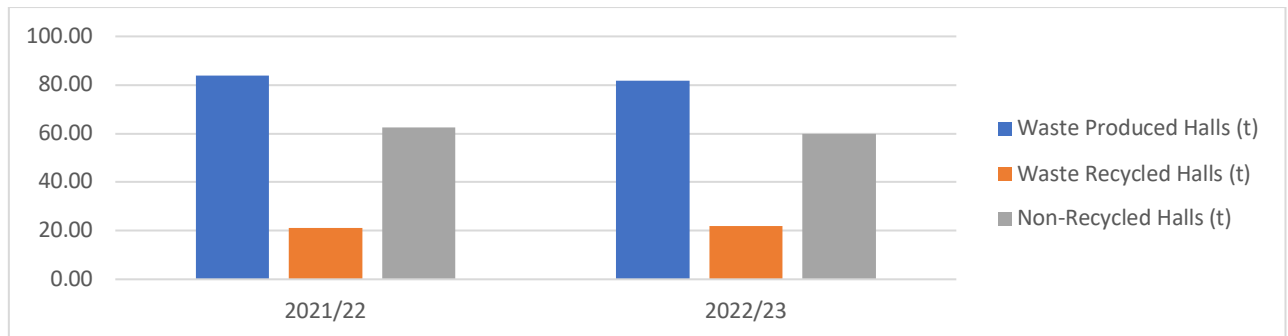
### Focus 2: Sustainable Resource Management

Our overall waste (t) has decreased compared with baseline 2018/19 from 202.17 to 150.307 (t) although this is a 10% increase on 2021/22 (Figure 7) and our recycling rate is 59%. This is not inclusive of accommodation.



**Figure 7.** AUB waste generated, non-recycled and recycled (t).

Figure 8 shows the first two years of full accommodation waste data. Waste produced, recycled, and not recycled is stable for the first two years but recycling rate is poor (27%).



**Figure 8.** Waste produced in halls accommodation, non-recycled and recycled.

In total AUB produced 232.199(t) waste with a recycling rate of 47%.

### Focus 3: Travel

A new online Travel to AUB system is now fully functional for staff. It involves a process of logging on and then being informed and directed about all the sustainable travel methods and incentives available to staff. These include shower, locker, and changing facilities, Cyclescheme, Beryl Bike, bus permit, and finally car permit. The car permit cost involves an offset cost for the commuting emissions for the year. The portal data accuracy has significantly lowered emissions from staff travel for 2022/23 compared with baseline.

Cyclescheme is part of the constitution of Travel to AUB and is a staff employee benefit saving 26-40% savings on bicycles and accessories with payments being tax efficient from salary. The cap on the amount that can be claimed overall increased by 20% to allow for good quality electric bikes to be purchased through the scheme. Once a month we have a Cycle Surgery where students and staff can visit for free to get maintenance and repairs on bicycles. We have two Beryl Bike stands/hubs for bicycles and scooters. One is by Campus Services and the other located by Campus Halls car park. We give away free minute bundles throughout the year with the codes advertised through social media and physical adverts.

AUB collaborates with BU for the Unibus service with fantastic savings for students and a discount permit for staff. AUB is represented on the Transforming Travel - Transforming Cities Fund: Programme Steering Group. A new cycle lane and pedestrian path is now available over the railway track on Glenferness Road for anyone travelling to AUB on this route.

### Focus 4: Sustainable Campus

#### AUB awarded grant for research into Plastics Innovation

Arts University Bournemouth (AUB) has secured funding from Research England to create a new Research Centre: Plastics Innovation and Curation. The centre will explore how plastics degrade over time or behave in different environments, resulting in research that'll have international relevance to both museum collections and modern manufacturing.

This innovative new venture will link the expertise of AUB's Museum of Design in Plastics (MoDiP) with the design, manufacturing and testing capabilities of the Creative Technologies Research Group based at AUB's Innovation Studio.

Dr Christian McLening, Director of Research and Development at AUB, will lead the new centre.

"The centre's purpose is two-fold," he explains. "On the one hand, we're curating and preserving a collection of plastics that make up our own rich product history. With the increased focus on alternative materials, there's a danger that we'll lose iconic plastic products from our everyday lives.

“On the other hand, we're exploring the environmental future of plastics and the role it plays in sustainability – when's the best time to use plastics to ensure we're developing better products and using plastic wisely. What happens to plastics in 20 years' time? As it's a relatively new material, we don't know what'll happen to these products in the future, and to prepare for the future it's vital we know this.

“Every household has a plastic bucket that's become faded and brittle over time, but we don't know why. That's one of the many things this research centre will be looking to achieve, to understand how plastics behave and how this can shape and better design the products of tomorrow, specifically with reuse, recycling, and repurposing in mind, to give them longevity.”

“This is a huge prize for the University and for all our environmental futures,” adds Professor Paul Gough, Principal and Vice-Chancellor at AUB. “Understanding the preservation of ageing plastics is of international importance for those objects made of the material, and for the sustainable development of new plastics-based products.

“The research emanating from this large grant will be of immediate relevance to global design and manufacturing industries as well as museums, of which MoDiP at AUB is a national institution.”

The Expanding Excellence (E3) funding awarded to AUB will allow the creation of a materials lab to test and identify different types of plastics, coupled with an enhanced knowledge archive to support the conservation of plastics in museum collections.

It'll also provide specialist materials knowledge, informing how industry selects their materials for manufacturing. The funding will further support the development of a range of CPD courses to improve specialist knowledge around plastics conservation for both industry and heritage sectors and provide a consultative offer on plastics identification.

### People and Planet



AUB has been named a 2:1 university in the People & Planet University League and ranked 50th out of the 124 universities that received a classification (first class, 2:1, third class – reflecting the structure of the degree classification system). The university ranked highly in several categories including Auditing and EMS, Environmental Policy, and Sustainability Staff.

People & Planet is the largest student network in the UK campaigning for social and environmental justice. Their mission is to build an empowered generation of change-makers who will be a force for change in achieving a more equitable and sustainable world.

AUB received a total score of 53.1%, climbing 18 places from the previous report. Up against much larger institutions, this is a fantastic achievement for the University and when the results are filtered by size (universities with 5,000 students or less), AUB is second in the UK.



The latest league was published in December and received coverage in The Guardian. 151 institutions were assessed on 13 categories including environmental policy and strategy, ethical investment and banking, carbon management and reduction and workers' rights.

Looking to the future, James Jackson, Environment and Sustainability Manager at AUB, comments, "This is another wonderful achievement by the AUB community. It demonstrates our connected commitments to people and environment. As well as being an environmental achievement this framework values diversity, wellbeing, ethical finances, and widening participation.

"But we must not stand still with the progress we are making. A People & Planet team has been established to progress up the League in the future."

Moving forward, AUB is focusing on six key areas: minimising emissions and utility usage, sustainable resource management, reducing emissions associated with travel, managing the estate efficiently, promoting biodiversity and fairtrade, and developing staff and student awareness and engagement.

### AUB Human presents: The Climate Crisis and Creative Practice

The arts can play a critical role in addressing the climate crisis. They can raise public awareness about environmental issues, tell compelling stories, advocate for positive change, and encourage citizen engagement in protecting the planet. Through creative practice, the arts can ignite people's imagination and enable them to envision a more desirable, optimistic, and positive future. Creative mediums, such as film, literature, and the visual arts, have the power to engage audiences in critical conversations that can shift attitudes and inspire more sustainable and regenerative relationships with the natural world.

This symposium presents an opportunity to hear from an AUB alumni and staff from a range of disciplines, as they showcase their approaches to tackling the climate crisis through creative practice. We're also delighted to welcome local activist and climate speaker Mark Chivers, who'll provide the keynote talk.

### Sustainability Awards

The AUB Sustainability Awards are in recognition of final year undergraduate student work that takes a particularly interesting or innovative approach to sustainability. Submissions are judged on the ability of the work to encourage, inspire, innovate, educate, or change approaches to sustainability.

Jon Renyard, Chair of the Environment Committee, and convenor of the judging panel said: "It is my privilege to be on the judging panel for these awards. It is always inspiring to see the ways in which students have responded to sustainability considerations in their work. I congratulate the winner, but this is a competition in which we are all winners, and it's great to see AUB continuing to take a lead in developing projects which can encourage, inspire, and educate".

James Jackson, Environment and Sustainability Manager, said, "It's never easy to compare the merits of projects, but this year's winning project is fantastic: it's simple but effective, and it's already making a difference – and there's a 5-year plan to take this forward".

A selection of the submissions will be presented on the AUB website in due course.

### **WINNER 2023**

Ed Earl, BA (Hons) *Fashion Branding and Communication*

## **HIGHLY COMMENDED**

Jemma Chapman, *MArch Architecture*

Lucy Colquhoun, *BA (Hons) Fashion Branding and Communication*

### Designing a sustainable advent: AUB Illustration grad's role on M&S's beauty bestseller

An alumna from Arts University Bournemouth (AUB)'s BA (Hons) Illustration course has been instrumental in the packaging design of Marks and Spencer (M&S)'s bestselling beauty advent calendar.

Bel Burkill, who graduated from AUB in 2018, has worked as an Assistant Print Designer in the homeware department at M&S since October 2022. She explains more about the creative process behind the beauty advent calendar:

"The brief was to give a modern twist to art deco glamour, in a bold but feminine palette. We've used striking star and fan patterns in metallic rose gold to really give that wow factor when you open the bag; with an equally striking outer belly-band packaging to pull the customer's eye in store.

"The other most important element to the concept of the packaging design was sustainability, and we've managed to produce a vegan leather, fully reusable advent bag – a great USP and great initiative for the annual Christmas calendar."

### Clothing upcycling project Salvage Collective turns heads at Graduate Fashion Week

Graduate Fashion Week (GFW) hosts the largest showcase of fashion student talent from universities across the country. Including those studying on Arts University Bournemouth (AUB)'s own BA (Hons) Fashion and BA (Hons) Fashion Branding and Communication courses.

For Fashion Branding and Communication student Ed Earl, GFW this year has brought wave after wave of successes. Starting off with an invitation by the fashion week organisers to have a stand of their own, based on their final major project.

The project, named Salvage Collective, revolves around reworking clothing, with a focus on reducing charity shop wastage.

"A lot of people don't realise that not everything that goes to a charity shop gets put on the shop floor," Ed explains. "A lot of it gets put in these rag bags, which are sold for £1 per kilo, regardless of what's in them. Eventually, down the line, it ends up in landfill.

"When a person donates to charity, they might be doing it for one of three reasons. They might be thinking it's great for the environment; they might think it's good because it's making the charity money, and that they're giving the garment a new life with someone else. But none of those are the case. The charity isn't making much money off the garment... it's still ending up in landfill, and the charity isn't reselling it. So, we take those garments for our workshops."

At a typical Salvage Collective embroidery workshop, visitors can patch over a hole or a stain in an existing garment. Thereby building a more meaningful relationship with that garment.

Ed and the mission behind Salvage Collective quickly turned heads at GFW. After showcasing on the event's Instagram, they were eventually given a stand of their own for the week. There, Ed promoted his work, do live workshops with people, spread awareness of the mission and ultimately make connections. An opportunity Ed describes as "Amazing."

“We were listed as a brand partner to the event. They had a list of partners on all their branding, like size? and Vans, and then my logo was just next to them. It was as if we were being seen as a real company.”<sup>1</sup>

AUB belongs to the EAUC - Alliance for Sustainability Leadership in Education. Sharing best practice, working alongside and with the wider Higher Education sector and especially within the EAUC South group. EAUC South group now combines with EAUC South West and South East groups for meetings.

AUB maintained its ISO14001:2015 and EcoCampus Platinum certification.

### **Focus 5: Biodiversity**

We have insect hotels throughout the campus and solitary bee tubes in the side of Campus Services and AUBSU. We have also registered our hedgerows through national survey with all hedgerows being species/habitat friendly. AUB has expanded further the Dye Garden and introduced an Herb Garden that is being used by our Catering contractor to use in the daily menu's.

Ecological survey has been carried out for the air source heat pump project to ensure no species of wildlife are harmed during clearance, construction, and post project use with biodiversity net-gain featured as part of the design process.

There are bird, bat, and hedgehog houses featured throughout the main campus and at Elliott Road studios. Two compost bins are on campus for 'garden' waste.

### **Focus 6: Social Justice**

We were one of only two universities in the country that achieved Fairtrade 3-star award back in 2020 and achieved it once again in 2022. Further information about Fairtrade and universities can be viewed [here](#).

Two food banks will be run from AUB main campus. One will be for students only in the Campus Halls and the other will be placed outside Campus Services.

### **Fairtrade**

AUB collaborated with BU to run a Fairtrade week on the w/c 27 February 2023. The events included a live virtual event hosted by Fairtrade Foundation, Fairtrade films, talks, free fruit giveaways, discussion night included a film by Koolskools and live talk from BCP Fairtrade Town Group, stalls, bake-off event, and free cooking lessons.

Fairtrade products continue to be available in all AUB eateries and ethical garments available from AUBSU. The Fairtrade Steering group is preparing for the 2024 February events but acknowledges that Fairtrade have moved the timeframe to September each year. This is not overly favourable to universities generally as not all students may be on campus and it can clash with other events at this time of year. The Fairtrade Steering Group has decided to hold a few low-key events in September and then hold other events in February as per old timeframes. The audits still happen in April each year.

AUB and BU have established a dedicated campus-based Community Front Room for students. The project was delivered in partnership with NHS, BCHA, Dorset Mental Health Forum and community mental health services. The project provides prompt access to mental health support and reduces the number of students waiting to access community mental services or presenting at A&E.

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<sup>1</sup> All underlined stories for Sustainable Campus written by AUB Marketing.

The University Retreat is located on the edge of the BU campus, next to Talbot House, to be accessible to students from AUB and BU. Based upon usage data from the existing CFRs, planned opening times are 2pm – 9pm, Monday to Saturday.

AUB has a Sustainable Palm Oil statement and is a Champion of the Dorset Sustainable Palm Oil Community initiative. Further information can be obtained [here](#).

### Supplementary Information

**Note:** AUB’s net zero pathway will be reported as Market-Based and will include REGO (Renewable Energy Guarantee of Origin) and PPA’s (Power Purchasing Agreements) electricity supply as zero emissions. The sustainability pathway is Location-Based reported and incorporates electric supply emissions. Although there are no immediate plans to change, the two pathway reporting systems could change if appropriate in the future.

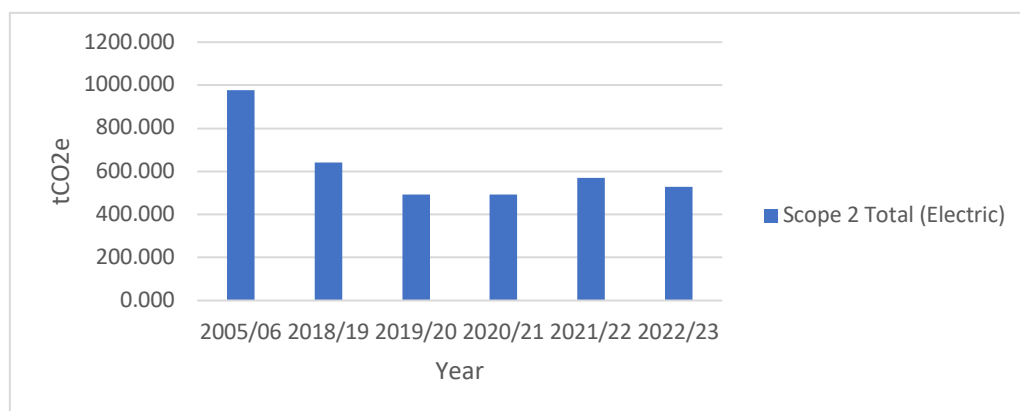
### Net Zero

Performance is highlighted at beginning of report.

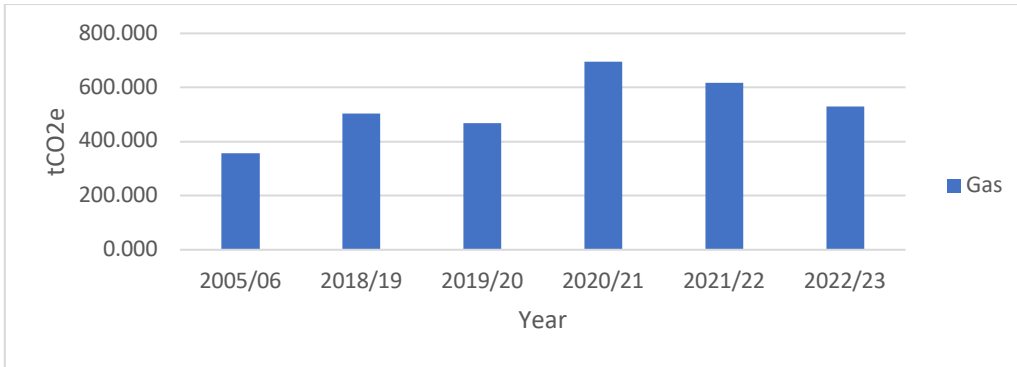
**Table 1.** Net Zero Emissions Inventory totals 2005/06, 2018/19 and 2019/20 to 2022/23.

| tCO2e                           | Source / Year | Scope    | 2005/06        |                 | 2018/19         |                | 2019/20         |                 | 2020/21        |                 |                 | 2021/22        |                 |                 | 2022/23        |                 |  |
|---------------------------------|---------------|----------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|-----------------|--|
|                                 |               |          | (L) tCO2e      | (L) tCO2e       | (L) tCO2e       | Offset         | (M) tCO2e       | (L) tCO2e       | Offset         | (M) tCO2e       | (L) tCO2e       | Offset         | (M) tCO2e       | (L) tCO2e       | Offset         | (M) tCO2e       |  |
| Gas                             |               | 1        | 357.000        | 502.488         | 468.439         |                | 468.439         | 695.894         |                | 695.894         | 616.276         |                | 616.276         | 530.183         |                | 530.183         |  |
| Fleet Vehicles                  |               | 1        | 9.000          | 12.923          | 7.339           |                | 7.339           | 8.450           |                | 8.450           | 10.942          |                | 10.942          | 8.833           |                | 8.833           |  |
| Refrigerant Leak                |               | 1        | 0.000          | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           | 53.487          |                | 53.487          |  |
| VOC's                           |               | 1        | 0.000          | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           |  |
| <b>Scope 1 Total</b>            |               | <b>1</b> | <b>366.000</b> | <b>515.411</b>  | <b>475.778</b>  | <b>0.000</b>   | <b>475.778</b>  | <b>704.344</b>  | <b>0.000</b>   | <b>704.344</b>  | <b>570.429</b>  | <b>0.000</b>   | <b>570.429</b>  | <b>592.503</b>  | <b>0.000</b>   | <b>592.503</b>  |  |
| <b>Scope 2 Total (Electric)</b> |               | <b>2</b> | <b>978.000</b> | <b>641.601</b>  | <b>491.059</b>  | <b>491.059</b> | <b>0.000</b>    | <b>491.118</b>  | <b>491.118</b> | <b>0.000</b>    | <b>569.443</b>  | <b>569.443</b> | <b>0.000</b>    | <b>528.665</b>  | <b>528.665</b> | <b>0.000</b>    |  |
| Water                           |               | 3        | 5.000          | 7.356           | 4.050           |                | 4.050           | 2.810           |                | 2.810           | 3.200           |                | 3.200           | 3.061           |                | 3.061           |  |
| Wastewater                      |               | 3        | 4.199          | 15.084          | 10.230          |                | 10.230          | 6.180           |                | 6.180           | 6.700           |                | 6.700           | 3.475           |                | 3.475           |  |
| Waste                           |               | 3        | 5.000          | 5.597           | 4.140           |                | 4.140           | 3.515           |                | 3.515           | 4.624           |                | 4.624           | 4.941           |                | 4.941           |  |
| T&D's                           |               | 3        | 50.365         | 55.809          | 41.833          |                | 41.833          | 43.460          |                | 43.460          | 50.365          |                | 50.365          | 45.134          |                | 45.134          |  |
| Staff Commute                   |               | 3        | 453.990        | 573.054         | 223.005         |                | 223.005         | 223.005         |                | 223.005         | 573.683         |                | 573.683         | 177.175         |                | 177.175         |  |
| Student Commute                 |               | 3        | 627.536        | 472.631         | 333.867         |                | 333.867         | 333.867         |                | 333.867         | 374.775         |                | 374.775         | 276.692         |                | 276.692         |  |
| Home Student Travel             |               | 3        | 982.810        | 1163.998        | 1163.998        |                | 1163.998        | 1163.998        |                | 1163.998        | 1163.998        |                | 1163.998        | 822.308         |                | 822.308         |  |
| Business Travel                 |               | 3        | 101.202        | 286.641         | 111.470         |                | 111.470         | 107.832         |                | 107.832         | 79.360          |                | 79.360          | 59.991          |                | 59.991          |  |
| Homeworking                     |               | 3        | 0.000          | 0.000           | 94.742          |                | 94.742          | 94.742          |                | 94.742          | 94.742          |                | 94.742          | 94.742          |                | 94.742          |  |
| Construction Projects           |               | 3        | 0.000          | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           | 0.000           |                | 0.000           |  |
| Supply Chain                    |               | 3        | 5867.000       | 5867.000        | 5867.000        |                | 5867.000        | 5867.000        |                | 5867.000        | 5867.000        |                | 5867.000        | 5867.000        |                | 5867.000        |  |
| <b>Scope 3 Total</b>            |               | <b>3</b> | <b>8097.1</b>  | <b>8447.170</b> | <b>7854.335</b> | <b>0.000</b>   | <b>7854.335</b> | <b>7846.409</b> | <b>0.000</b>   | <b>7846.409</b> | <b>8218.447</b> | <b>0.000</b>   | <b>8218.447</b> | <b>7354.520</b> | <b>0.000</b>   | <b>7354.520</b> |  |
| <b>Total</b>                    |               |          | <b>9441.1</b>  | <b>9604.182</b> | <b>8821.172</b> | <b>491.059</b> | <b>8330.113</b> | <b>9041.871</b> | <b>491.118</b> | <b>8550.753</b> | <b>9358.319</b> | <b>569.443</b> | <b>8788.876</b> | <b>8475.687</b> | <b>528.665</b> | <b>7947.022</b> |  |

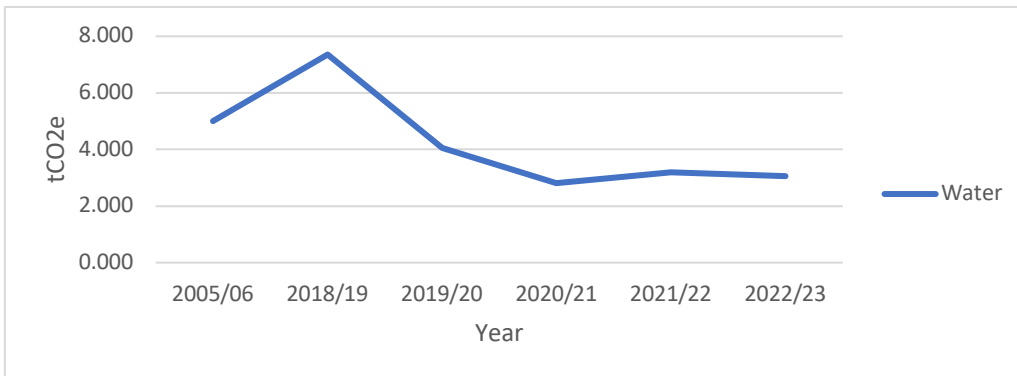
### Sustainability



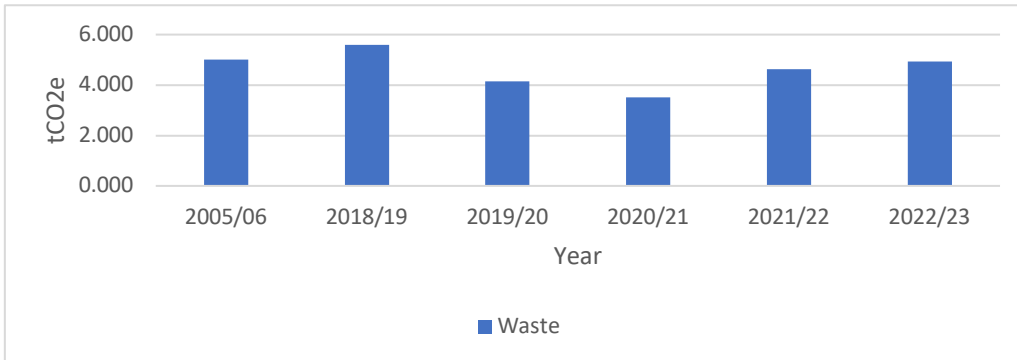
**Figure 9.** Electricity emissions (CO<sub>2</sub>e).



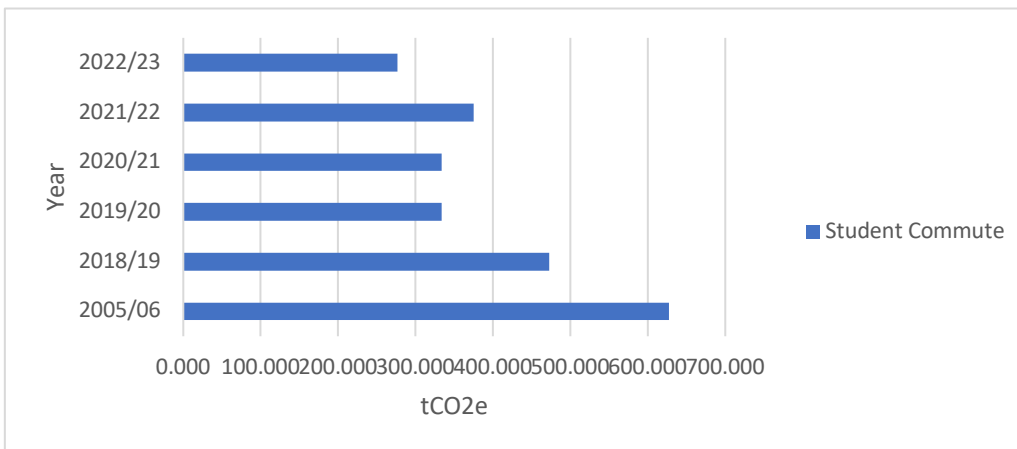
**Figure 10.** Gas emissions (CO<sub>2</sub>e).



**Figure 11.** Water Emissions (tCO<sub>2</sub>e).



**Figure 12.** Waste Emissions (tCO<sub>2</sub>e).



**Figure 13.** Student commute emissions (tCO<sub>2</sub>e).

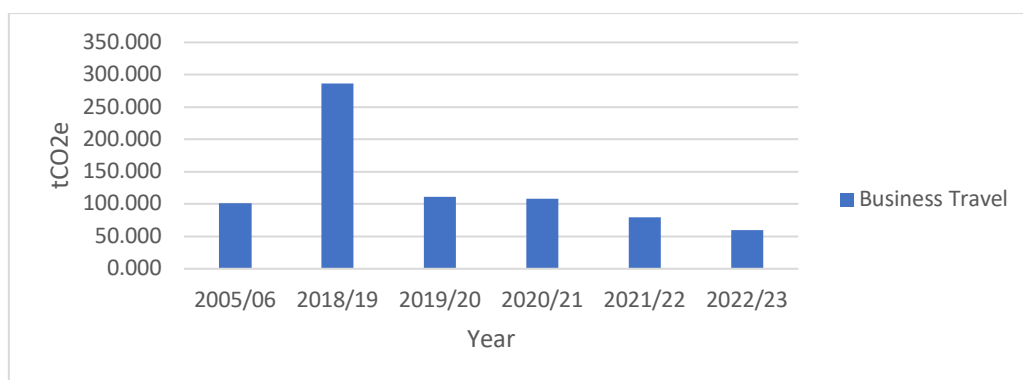


Figure 14. Business travel emissions (tCO<sub>2</sub>e).

## Target Progression

Our SNZ targets and projects are listed below and coloured as per Table 3.

Table 3. Project stage

| Project Colour | Description                                 |
|----------------|---|
| Red            | Project not started                         |
| Amber          | Project to be started within next 12 months |
| Green          | Project underway                            |

## Sustainability - Energy and Water

Table 2. \* Saving is net-zero only, and not deducted from Sustainability total. Totals in blue are repeat baseline data and not included in total. An increase in emissions from electricity associated with transition to heat pumps will subsequently change the total.

| Focus Area | Target                  | Project   | Date          | Baseline tCO <sub>2</sub> e (unless stated otherwise) | Approx. tCO <sub>2</sub> e Saving |
|------------|-------------------------|---|---------------|---|-----------------------------------|
| Gas        | 0% emissions            | Install heat pumps to replace gas boilers             | 2030          | 502.488   | 502.488                           |
| Gas        | 0% emissions            | Change cooking heat from gas to electric              | 2025          | Not known   | Saving already counted (SAC)      |
| Electric   | 0% emissions            | Maintain renewable energy through REGO or PPA         | 2030          | 641.601   | (*) 0                             |
| Electric   | 8% reduction (kWh)      | Investigate, encourage, and promote behaviour changes | 2030          | (641.601)<br>2,510,176.056 (kWh)                      | 51.328<br>200,814.084 (kWh)       |
| Electric   | Increase PV power input | Extend PV provision                                   | 2025 and 2030 | (641.601)   | 3.085 (2025)                      |

|            |  |  |  |                                   |                                  |
|------------|--|--|--|-----------------------------------|----------------------------------|
|            | by 50% by 2025 and across all available roof space by 2030 | throughout campus  |  |                                   |                                  |
| Electric   | Investigate benefits.                                      | Introduce battery technology for electric storage in buildings                         | Investigate benefits by 2025                           | N/A                               | N/A                              |
| Electric   | 10% reduction (kWh)  | Investigate ISO5001 implementation   | 2025 to complete (begin 2023)                          | (641.601)<br>2,5101,176.056 (kWh) | 64.160<br>251,017.605 (kWh)      |
| Electric   | Reduce printers throughout campus 40%                      | Decreasing the number of printers to lower energy and paper use                        | Aiming for 40% reduction in printers by September 2023 | (641.601)                         | TBC                              |
| Electric   | Migrate 15% of AUB systems (virtual & physical)            | Moving to cloud storage will lower energy use from system use and cooling requirements | 2025   | (641.601)                         | TBC                              |
| Electric   | AUB computer base to at least 60% laptops                  | Reduce desktop computers (personal and suites) and replace with laptops                | 2023   | (641.601)                         | TBC                              |
| Monitoring | Purchase SMART monitoring technology                       | Purchase or acquire use of energy and water monitoring software                        | September 2023   | 648.957 (electric and water only) | 64.896 (based on 10% saving)     |
| Water      | 8% reduction (m3)  | Reduce water use through behaviour change  | 2030   | 5.925 and 17,222m <sup>3</sup>    | 0.474 and 1,377.76m <sup>3</sup> |
| Water      | 10% reduction (m3)   | Install non-water urinals and toilets (investigate chemical use)                       | 2024   | 5.925 and 17,222m <sup>3</sup>    | 0.592 and 1722.2m <sup>3</sup>   |

|  |  |                                     |  |                     |   |
|--|--|-------------------------------------|--|---------------------|---|
| Wastewater                             | 18% reduction in water (m3)  | Behaviour change, waterless toilets | 2030   | 12,193<br>17,222 m3 | 2,195 tCO <sub>2</sub> e<br>3,099.960m3 |
| Water                                  | Investigate potential to use grey water for toilet flushing or other potential water flushing requirements | Harvest rainwater                   | 2023 target to have investigated possibility of water harvesting | TBC                 | TBC                                     |
| <b>Baseline Total tCO<sub>2</sub>e</b> |  |                                     |  |                     | 1162.207                                |
| <b>Savings tCO<sub>2</sub>e</b>        |  |                                     |  |                     | 689.218                                 |
| <b>2030 Total tCO<sub>2</sub>e</b>     |  |                                     |  |                     | 472.989                                 |

### Sustainable Resource Management

**Table 3.** Sustainable Waste Management. Blue data is repeated baseline data and not included in total.

| Focus Area | Target  | Project  | Date                               | Baseline tCO <sub>2</sub> e (unless stated otherwise) | Approx. tCO <sub>2</sub> e Saving                     |
|------------|---|--|------------------------------------|---|---|
| Waste      | 25% reduction (t weight)                            | Investigate waste streams and associated reduction opportunities through behaviour change and procurement activity | 2030 overall reduction 12% by 2025 | 5.597 tCO <sub>2</sub> e<br>202.17t (weight)          | 1.079 tCO <sub>2</sub> e<br>50.55t (weight)           |
| Waste      | 20% food waste reduction                            | Investigate food procurement , portion size, increase food waste capture, increase food giveaway schemes           | 2026                               | 6.464t (weight)                                       | SAC<br>(0.028 tCO <sub>2</sub> e and 1.294t (weight)) |
| Waste      | Recycling rate 65% (adjust for accommodation waste) | Waste audit, procurement opportunities , education   | 2030                               | 59%   | SAC<br>11t (weight) of waste going to                 |



|  |                                    |  |   |     |                   |
|--|------------------------------------|--|---|-----|-------------------|
|  |                                    |  |   |     | energy from waste |
| Waste                                  | zero one-use coffee cups on campus | Restrict one-use coffee cup use to visitors, Open Day, or other-special events and only served from one eatery | Advertise/communicate from September 2023 no longer using one-use coffee cups. Sell AUB reusables in all AUB coffee outlets | TBC | TBC               |
| <b>Baseline Total tCO<sub>2</sub>e</b> |                                    |  |   |     | 5.597             |
| <b>Savings tCO<sub>2</sub>e</b>        |                                    |  |   |     | 1.079             |
| <b>2030 Total tCO<sub>2</sub>e</b>     |                                    |  |   |     | 4.518             |

## Travel

**Table 4.** Travel. Blue data is repeated baseline data and not included in total.

| Focus Area | Target                               | Project   | Date           | Baseline tCO <sub>2</sub> e (unless stated otherwise) | Approx. tCO <sub>2</sub> e Saving |
|------------|--------------------------------------|---|----------------|---|-----------------------------------|
| Travel     | Zero staff car commuting emissions   | Car permits to include off-set                    | September 2023 | 461.040   | 461.040                           |
| Travel     | Reduce staff car use by 8%           | Other travel incentives                           | 2025           | 461.040   | SAC<br>6.521 tCO <sub>2</sub> e   |
| Travel     | Zero emissions for AUB fleet vehicle | Replace Fiat 500 with EV (or hydrogen) vehicle    | 2022           | 2.644   | 2.644                             |
| Travel     | Zero emissions for AUB fleet vehicle | Replace Ford Crew with EV (or hydrogen) vehicle   | 2029           | 1.459   | 1.459                             |
| Travel     | Zero emissions for AUB fleet vehicle | Replace Renault Van with EV (or hydrogen) vehicle | 2029           | 1.311   | 1.311                             |
| Travel     | Zero emissions for AUB fleet vehicle | Replace Smart Car with EV (or hydrogen) vehicle   | 2023           | 1.444   | 1.444                             |

|  |                                      |   |   |                 |                 |
|--|--------------------------------------|---|---|-----------------|-----------------|
| Travel                                 | Zero emissions for AUB fleet vehicle | Replace i30 with EV (or hydrogen) vehicle                           | Replace with electric vehicle if technology supports long distance travel by road | 2.028           | 2.028           |
| Travel                                 | Zero emissions for AUB fleet vehicle | Replace i800 with EV (or hydrogen) vehicle                          | 2029  | 1.213           | 1.213           |
| Travel                                 | Zero emissions for AUB fleet vehicle | Replace Luton Van with EV (or hydrogen) vehicle                     | 2029  | 1.163           | 1.163           |
| Travel                                 | Zero emissions for AUB fleet vehicle | Replace Relay with EV (or hydrogen) vehicle                         | 2029  | 1.661           | 1.661           |
| Travel                                 | Zero emissions of AUB bus fleet      | Electrification of the bus fleet (by contract negotiation)          | 2035  | TBC (Sept 2022) | TBC (Sept 2022) |
| Travel                                 | Data capture                         | Obtain flight data through automated procedure                      | September 2023  | N/A             | N/A             |
| Travel                                 | Data capture                         | Obtain rail data through automated procedure                        | September 2023  | 1.78            | N/A             |
| Travel                                 | Data capture                         | Obtain hire vehicle data through automated procedure                | September 2023  | N/A             | N/A             |
| Travel                                 | Delivery emissions                   | Keep using current calculation until further clarity on procurement | On-going  | 41.290          | TBC             |
| Travel                                 | Data capture                         | Obtain overnight stay data for emission calculation                 | September 2023  | N/A             | N/A             |
| <b>Baseline Total tCO<sub>2</sub>e</b> |                                      |   |   |                 | <b>517.033</b>  |

|                                    |         |
|------------------------------------|---------|
| <b>Savings tCO<sub>2</sub>e</b>    | 473.963 |
| <b>2030 Total tCO<sub>2</sub>e</b> | 43.070  |

## Sustainable Campus

**Table 5.** Sustainable Campus. Blue data is repeated baseline data and not included in total.

| Focus Area | Target   | Project  | Date                  | Baseline tCO <sub>2</sub> e (unless stated otherwise) | Approx. tCO <sub>2</sub> e Saving                  |
|------------|--|--|-----------------------|---|--|
| Food       | Improve healthy options and lower associated emissions year on year              | Improve sustainable, ethical, and healthy eating options in eateries   | On-going              | N/A   | Student survey and food audit/assessment           |
| Buildings  | Refurbishments to existing buildings to raise energy, heat, and water efficiency | Existing buildings will need refurbishment to lower energy, heat and water costs and improve efficiency and net zero | Refurb report 2025/26 | 648.957 (electric and water only)                     | TBC  |
| Buildings  | All new builds to be at least one of net-zero, BREEAM, or WELL standard          | Eliminates potential net-increase from campus expansion  | 2022                  | 648.957 (electric and water only)                     | No increase from campus expansion or refurbishment |

## Biodiversity

**Table 6.** Biodiversity

| Focus Area   | Target   | Project   | Date     | Baseline tCO <sub>2</sub> e (unless stated otherwise) | Approx. tCO <sub>2</sub> e Saving                   |
|--------------|--|---|----------|---|---|
| Biodiversity | Demonstrate year on year net-biodiversity gain | Increase biodiversity net-gain through various projects | On-going | Set a baseline  | Use a net-biodiversity gain matrix for 2024 onwards |
| Pollinators  | Set a percentage target to increase            | Introduce, improve pollinator                           | On-going | Set a baseline  | Use a net-biodiversity gain matrix                  |

|           |  |   |                                  |                  |                    |
|-----------|--|---|----------------------------------|------------------|--------------------|
|           | pollinator friendly ecology and habitats to mitigate against the ecological crisis | friendly ecology  |                                  |                  | for 2024 onwards   |
| Hedgehogs | Obtain hedgehog friendly campus status   | Work towards gold certification over the next three years | December 2024 gold certification | No certification | Gold certification |

## Social Justice

Table 7. Social Justice

| Focus Area  | Target  | Project   | Date  | Baseline tCO <sub>2</sub> e (unless stated otherwise) | Approx. tCO <sub>2</sub> e Saving  |
|-------------|---|---|---|---|--|
| Governance  | Ensure all AUB policies reflect net zero commitments                                  | Assess all policies to ensure   |   | No policies checked                                   | All policies assessed  |
| Palm Oil    | Reduce / eliminate uncertified palm oil use   | AUB signed up (11/21) so an initial analysis will set a baseline and then target improvements | Catering – September 2022 and then new target for other contracts | Non-signatory   | Signatory  |
| Fairtrade   | Maintain Fairtrade certification  | Re-certify every two years  | 2022, 2024, 2026, 2028 and 2030                                   | Uncertified   | Certified  |
| Procurement | Contract tender procedures consolidated. Data capture started for 'other' procurement | Investigate emissions and social justice issues upstream in the supply chain                  | 2022 and ongoing to 2030  | N/A   | Data capture and calculations will move aspects into other categories and net zero inventory |