

# Environment Strategy Annual Report 2022/23

April 2024



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<b>Summary:</b>	
This report details progress against targets set in the University of Winchester Environment Strategy for the year 2022/23.	

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## Introduction

This report details progress against targets set in the University of Winchester Environment Strategy. To avoid an overly long document, only key headline achievements and areas of concern are covered.

As before, the relevant SDGs have been included against each section where they are applicable.

## Key Points

1. Continued reductions in energy use in absolute terms and relative to the size of the estate
2. On target for decarbonising the university fleet by 2025.
3. Continued increase in recycling rate and waste mass generated per student target already exceeded.
4. Slight increase in water consumption compared to previous year but exceeding 2025 target reduction.
5. Ranked Top Ten of all universities for Energy Sources in the People & Planet league table 2022/23
6. Achieved Plastic Free University Status.

Area	Description	Progress by 2023/24	Target	By When
<b>Energy</b>	Electricity, gas & oil consumption	49%	65% reduction relative to floor area	2025
<b>Water</b>	Consumption volume per M2 of estate	45%	40% reduction relative to floor area	2025
	Consumption volume per FTE	41%	30% reduction in water per staff and student FTE	2025
<b>Transport-fleet</b>	Decarbonising the University vehicle fleet	65%	100% electric or other forms of zero/low carbon powered vehicles	2025
<b>Waste</b>	Total waste produced onsite per FTE	33%	25% reduction in waste mass generated per staff and student FTE	2025
<b>Waste-recycling</b>	Segregated recycle onsite and within sorting facility	70%	increase recycling rates to 80% of all waste generated	2025

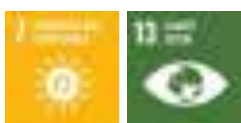
## Introduction

This report details progress against targets set in the University of Winchester Environment Strategy. The information within the document is for the 2022/23 academic year.

Please note that the University carbon footprint data is covered in a separate Carbon Management Plan Annual Monitoring Report.

It should be noted that the global COVID-19 pandemic has had a significant impact on some of the metrics reported for the 2019/20 academic year and part 2020/21.

## Energy



The University is a large user of gas & electricity. Excellent reductions in consumption of these natural resources have been achieved (per m<sup>2</sup>) since 2006/07. Significant investment in energy efficiency and management of energy has been made since the start of the Carbon Management Programme. Overall total kWh consumption of utilities has reduced per m<sup>2</sup> of the estate by 49% since 2006 and reduced by 2% from the previous year (2021/22).

	2006/07	2021/22	2022/23	% change (2006/7 to 2022/23)	% change (2022/23 to 2023/24)
Electricity Intensity by M2 (kWh's)	78.69	64.28	69.89	<b>-11%</b>	<b>9%</b>
Gas Intensity by M2 (kWh's)	133.73	83.59	74.15	<b>-45%</b>	<b>-11%</b>
Oil Intensity by M2 (litres)	54.98	0	0	<b>-100%</b>	<b>-</b>

Figure 1 – Table of energy consumption per m<sup>2</sup> 2006/7 to 2022/23

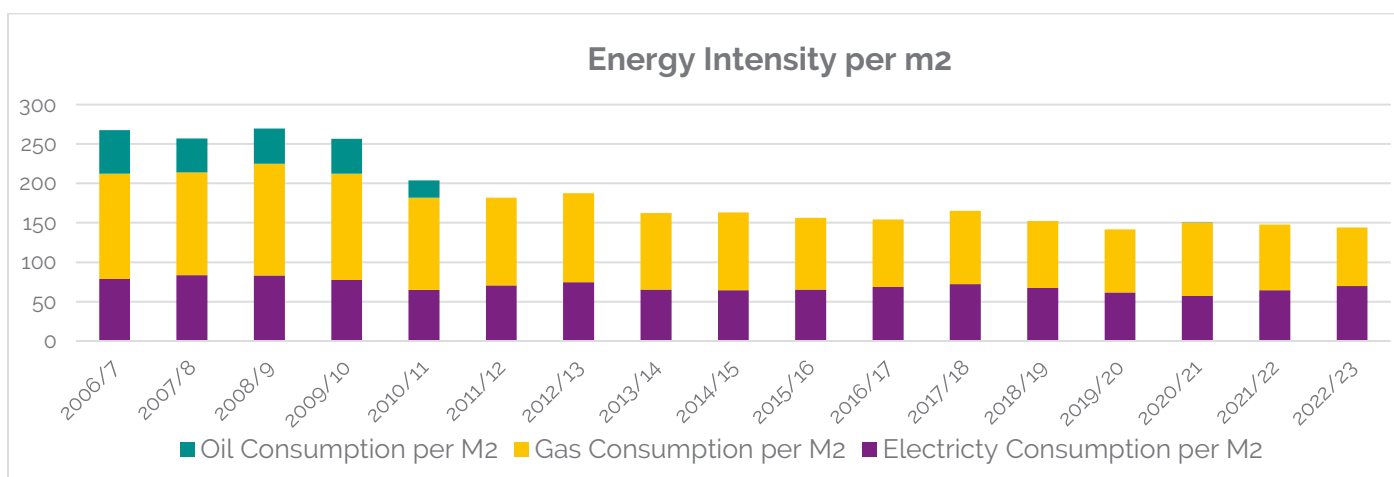


Figure 2 – Energy Intensity (kWh's per m<sup>2</sup>) 2006/07 to 2022/23

It is becoming apparent that the large gains made early in the energy reduction programme are starting to become more difficult to sustain and the need to look at larger scale energy reduction projects was necessary. The University made a successful bid to the Public Sector Decarbonisation Fund (PSDS) in November 2020 which

provided £3.12m of grant funding towards low carbon projects. Installation commenced in Spring 2021 by the contractor Ameresco under the Re:Fit Framework and 2022/23 saw the first year of full operation for the equipment installed.

Energy efficiency projects implemented as part of the PSDS scheme included:

- 36 air source heat pumps to 15 buildings replacing gas boilers.
- LED lighting upgrades and lighting controls
- BMS installation, upgrade and optimisation
- 150 kWp Solar Photovoltaics on 6 buildings

The implementation of 36 new air source heats pumps, replacing gas fired heating has contributed towards a 11% increase in electricity in 2022/23 compared to the previous year, but conversely a 9% reduction in gas consumption over the same period.

### Renewable Energy Generation

At the start of 2021, the University had 5 renewable electricity installations, located on the Burma Road Student Village Blocks B and D, St Alphege, Bowers Building and the West Downs Centre. Under the £3.1 mil Public Sector Decarbonisation Grant a further 151Kw of solar photovoltaic panels were installed on a further 4 buildings (Burma Road Student Village Blocks A, C and E and installed capacity was increased on blocks B and D along with a final installation was made on The Stripe). BRSV started generating savings in November 2021 with The Stripe coming online in December 2021. The 2022/23 academic year saw the first full reporting year for electrical generation for these new installations, which has increased by 36% compared to the previous year (2021/22).

On-site generation accounted for 3.98% of total electricity consumed in 2022/23.

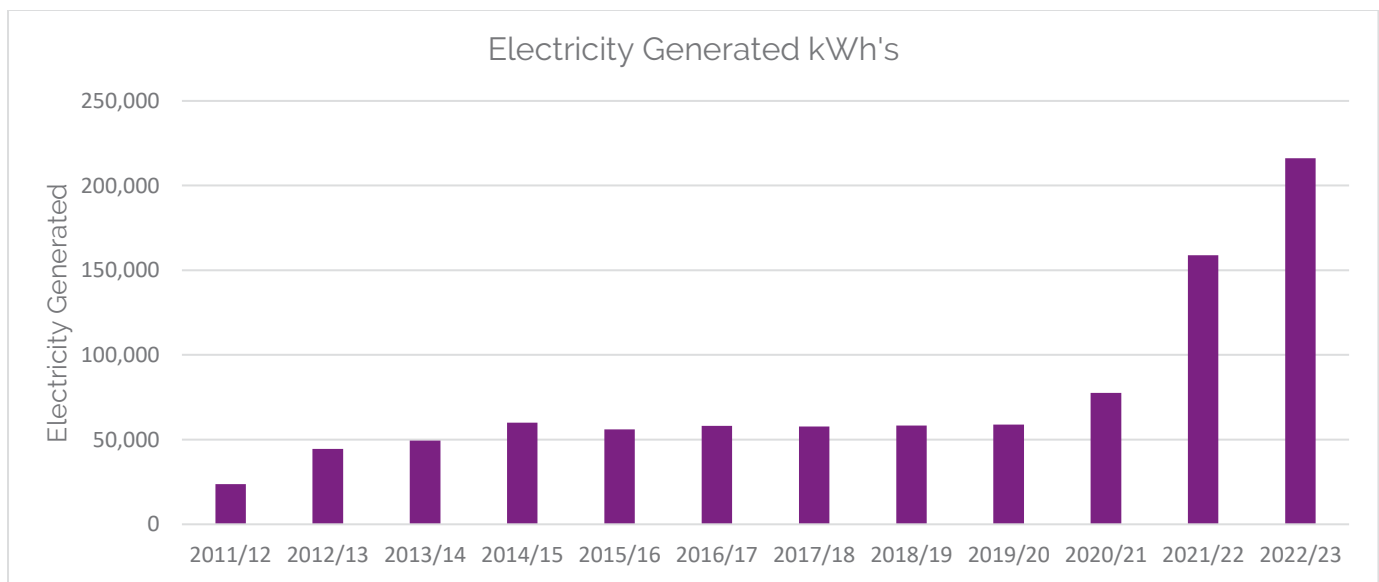


Figure 3 – Renewable Energy Generated on Campus

## Renewable Energy Procurement

The university has purchased zero carbon electricity to cover 100% of its demand since 2008/09, meaning that, under the market-based methodology, carbon emissions are much lower. Between August 2008 & March 2022 the university purchased 100% renewable energy, backed by Renewable Energy Guarantees of Origin (REGOs) from wind, solar and/ or Hydro. In April 2022 the university had to switch the procurement of its electricity supply to a Zero Carbon for business tariff, backed by 100% nuclear generator declarations and zero carbon emissions. This move away from renewable was due to the high national demand of 100% renewable energy and limited supply of REGOs to cover this demand. The university is committed to returning to REGO backed 100% renewable energy supplies as soon as possible.

In 2019/20 the University also made the decision to procure a percentage of renewable or 'green' gas. 47% of the University Gas consumption was purchased from renewable sources (generated from biomethane from anaerobic food digestion plants) for that year. In 2020/21 (and onwards) the decision to move to 100% green gas was made. The University purchases Renewable Energy Guarantee of Origin (REGO) certificates through its energy supplier to cover all of the annual gas demand each year. A copy of the REGO certificate for the 2021/22 consumption of renewable gas can be found at Appendix 2.

A small volume of green gas credits purchased in 2021/22 were outstanding at the end of the academic year and therefore carried forward into 2022/23, in such renewable gas made up 4% of the total gas consumption for 2022/23. The decision was made that the university would be unable to continue purchasing green gas for the 2022/23 academic year due to financial constraints and the ever-inflating cost of this commodity. This will be review on an ongoing basis, tracking the additional associated costs.

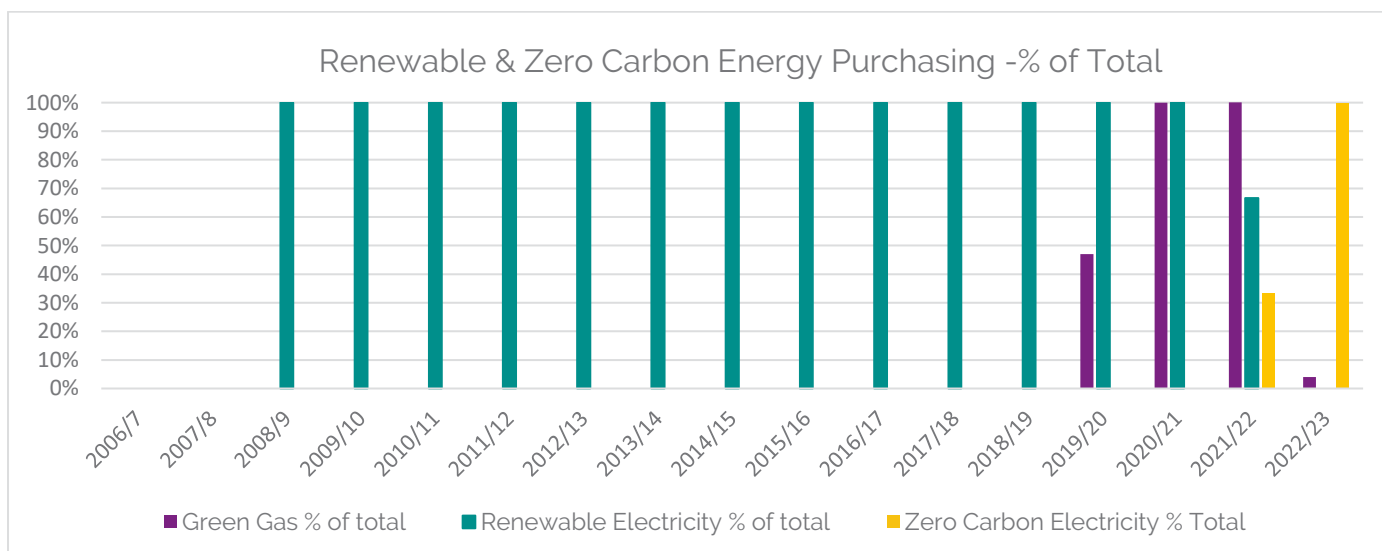


Figure 4 – Renewable & Zero Carbon Gas and Electricity – Percentage of total by year

## Display Energy Certificates

Display Energy Certificates (DECs) were introduced by the Government in 2009 and must be displayed in the foyer of all public buildings over 1000m2 in size. More recently the introduction of DECs for smaller buildings over 500m2 and then 250m2 were introduced. DECs on smaller properties are a legal requirement every 10 years but for benchmarking purposes the University will make voluntary DECs on all buildings over 250m2 on a more regular





## Student Engagement- Energy Saving Campaigns



*Figure 6 – Picture of students volunteering for the Blackout Energy Saving event*

Student engagement plays a pivotal role in energy reduction campaigns at the university and each year the university's Energy & Environment Team run a large switch off event. More than 20 students and staff joined a campus Blackout event in January 2023. The first Blackout event since 2019 (due to the pandemic) this major exercise across King Alfred and West Downs Quarters highlighted the positive impact that small, collective switch-off actions can have on the University's carbon footprint.

Teams of student volunteers, led by staff from the Estates and Facilities department, walked around the University and switch off non-essential small power equipment left on that evening in office areas and teaching rooms - including lights, computer monitors, non-networked printers, mobile phone chargers, and PC speakers.

Energy usage during the Blackout evening was measured and compared to a comparable evening to demonstrate the real savings. 11.7 tonnes of CO<sub>2</sub> per year could be saved with just a few changes to the way we work and switching off equipment that does not need to be left on.

## Water



It should be noted that the global pandemic will have had a significant effect on water consumption on campus in the 2020/21 academic year. 2021/22 & 2022/23 have seen an increase in water consumption compared to the this covid year (2020/21) as it was the first full years of occupancy of the West Downs Centre and also a full return to campus for the first full academic years since the global pandemic.

Water consumption per m<sup>2</sup> of estate has reduced by 45% since 2006/07 and total water consumption by 2% in 2022/23. The volume of rainwater reused in the West Downs Building has increased by 41% compared this year to the previous year.

The sharp increase in water consumption in 2008/9 was due to a very large leak which went undetected until the M&T system was installed. The Monitoring and Targeting (M&T) system continues to identify areas of water leakage and poor efficiency.

In 2018, the Estates department introduced a new standard specification document for construction and refurbishment which required that water saving devices must be installed in all new buildings and refurbishments.

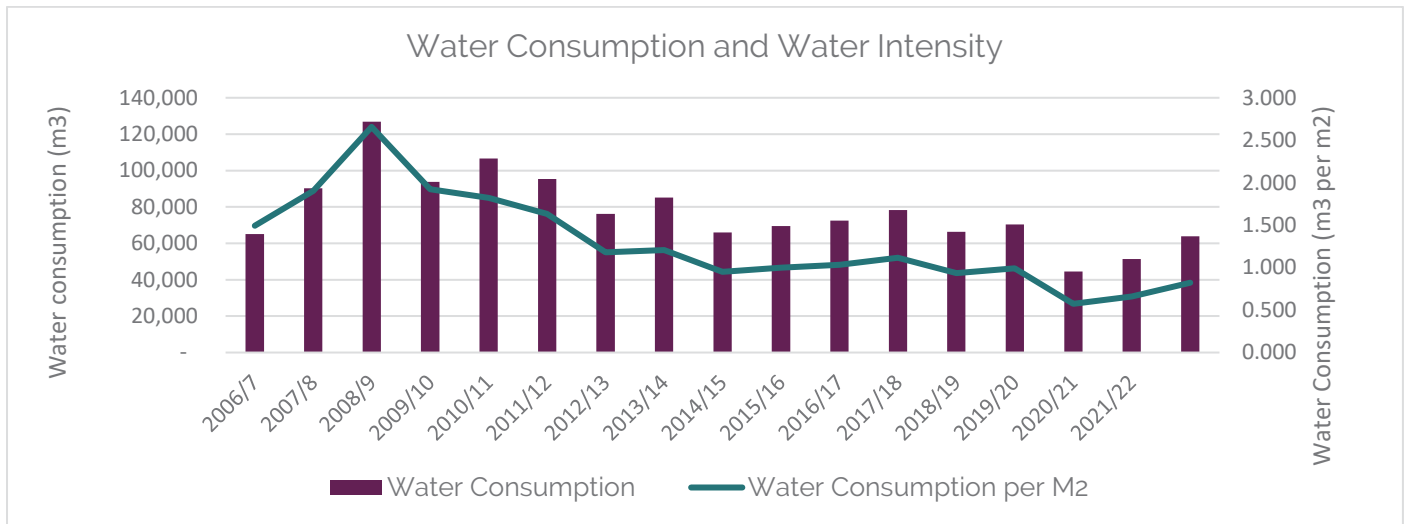
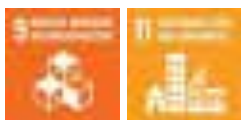


Figure 7 – Water Consumption (m³) and Water Intensity (m³ by m² of estate) 2006/7 to 2022/23

## Transport



A number of new transport initiatives and projects have been launched since the last reporting period.

### Campus Fleet Vehicles

By the end of 2022/23, 65% of fleet vehicles had been switched to electric vehicles as part of our journey towards our target of net-zero carbon emissions from fleet vehicles by the end of 2025/26.

The entire maintenance fleet has been replaced with electric vehicles (note a high efficiency petrol vehicle is still retained for callout purposes), the postroom van and the catering van have also been replaced, as has one of the University Pool Cars with an electric vehicle. This has had a significant impact in the amount of diesel and petrol being bought to fuel campus vehicles, with volumes reducing by 64% reduction in diesel from baseline year and 71% reduction in petrol from baseline year.

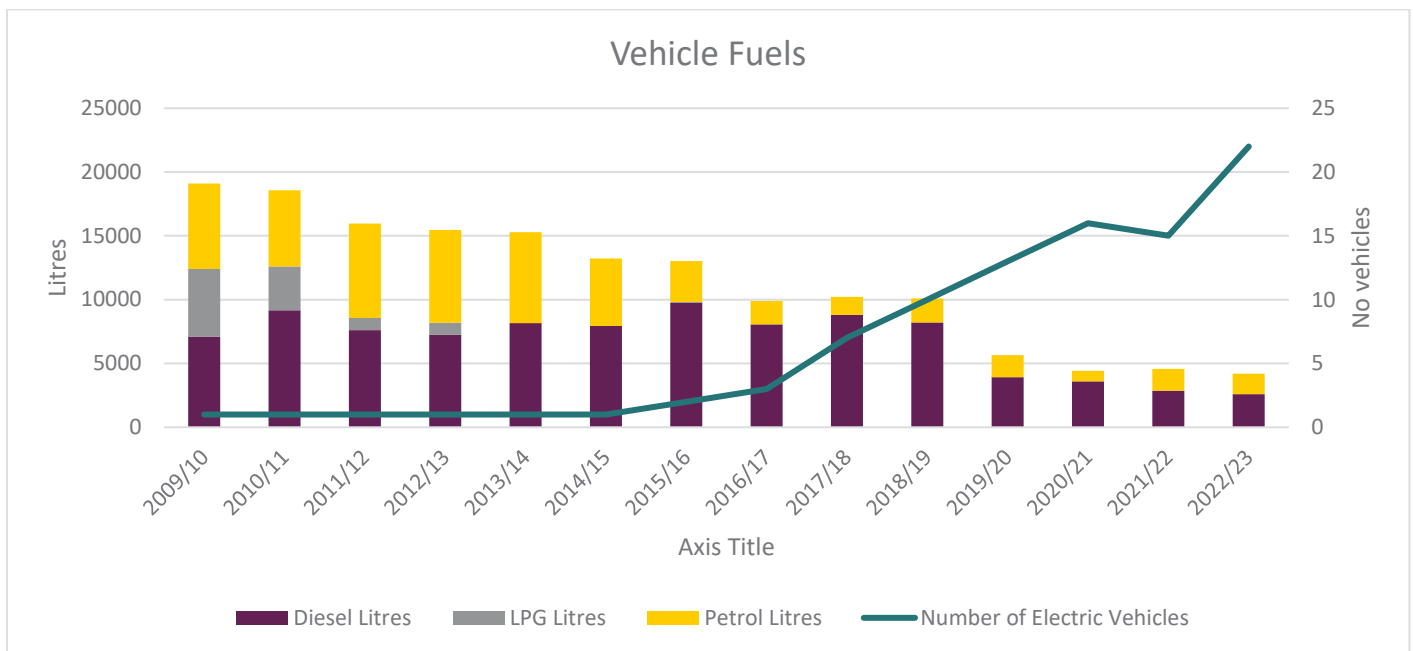


Figure 8 – Fleet Vehicle Fuel Consumption and Electric Vehicles 2009/10 to 2022/23

It is expected that the majority of the University fleet will be changed to Electric technology as the vehicles are replaced by 2025. Please note that the data submitted to HESA in 2006 to 2008 is not reliable and has therefore been excluded from this report on accuracy grounds.

### Travel Survey

In March 2022 a student and staff travel survey was carried out with 41% of staff responding to the survey and 9% of students. The university is committed to carrying out staff and student travel surveys biennially.

Understanding how staff and students travel to the University is key in helping us to determine what facilities or incentives are required to help reduce single occupancy car use and drive an increase in sustainable transport and active travel. Statistics gained from this survey will be used to develop a staff and student travel plan, due for completion in 2023/24 academic year.

### Promoting Sustainable Transport

The University of Winchester sets out the commitment to support students and staff to travel sustainably, reducing single occupancy car use and producing a modal shift to sustainable transport options. The University has continued to secure new discounts on public transport and with local suppliers, to diversify the travel offers to staff and students.

Information on transport options was distributed via dedicated intranet webpages, the University's external website and App, leaflets and social media.

Since 2016/17, parking income from permits and enforcement was ringfenced for sustainable travel initiatives.

### Bus

A 20% discount for staff and students on Bluestar bus 30-day and 90-day network tickets, covering all Bluestar services, including the Bluestar 1 to Winchester and unilink buses in Southampton.

A 10% discount for staff on 13-week or annual Stagecoach Winchester Megarider or Megarider Gold tickets. Students also receive a discount on Stagecoach season tickets.

### Cycling

A Bike Doctor event was held monthly during the term time of the 2022/23 academic year, run in conjunction with Bespoke Biking. This enabled staff and students to bring their bikes for a free service and minor repairs. This event ran from October to the following June, the first Thursday of every other month.

2022 saw the installation of a new cycle shelter at the West Downs Campus to house pool bicycles available to loan for students on placements.

The University has two cycle maintenance stands in two locations on the University site which offer bike users the option to undertake small maintenance tasks on the go. We provide over 18 secure bike parking lockers and our total number of cycle parking spaces is at 257 spaces.

### Train Travel

A discount on South Western Railway (SWR) season tickets for students was agreed at the end of 2016/17. Students can save up to 34% when buying a SWR season ticket, compared to the cost of daily tickets. The take-up of has steadily increased over the years with 72 season ticket requests over 2022/23, increasing from only 67 students in 2021/22 and 11 in 2020/21 & 45 in 2019/20. Staff discount for rail travel is covered in the East Membership section below.

### Park and Ride

Park & Ride has become an increasingly useful option for those wishing to commute by car and has eased pressure on car parking spaces at the University. Following a steady rise in recent years, Park and Ride Journeys were at 24,046 journeys undertaken for 2022/23. This a slight decrease from the year before (2021/22) where figures were at an all-time high with 37,945 journeys undertaken, having risen significantly from previous years to above pre-pandemic levels. This also reflects the decreasing number of students eligible to park on site with as each year passes since changes removing the right to park on Campus.

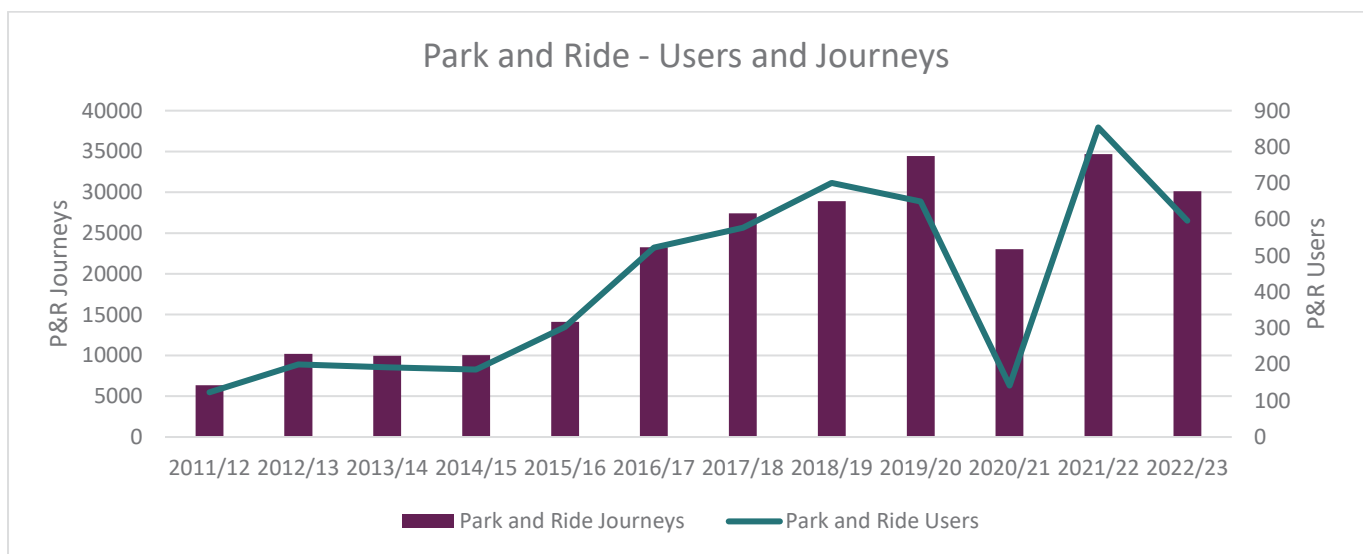


Figure 9 – Park and Ride statistics by year

## Easit Membership

The University remained a member of the EasitHAMPSHIRE network with all staff being eligible to join the scheme, enabling access to a suite of discounts. This included a 15% discount on all South Western Railway journeys into Winchester. EasitHAMPSHIRE membership amongst staff has grown steadily since 2014/15, as shown in figure 9. There are currently 427 staff signed up to the scheme using easitDISCOUNTS and initiatives. A further 16 members of staff have also signed up to easitSHARE, a journey sharing initiative. The university recently launched easit for students and currently have 223 students accessing discounts through the scheme.

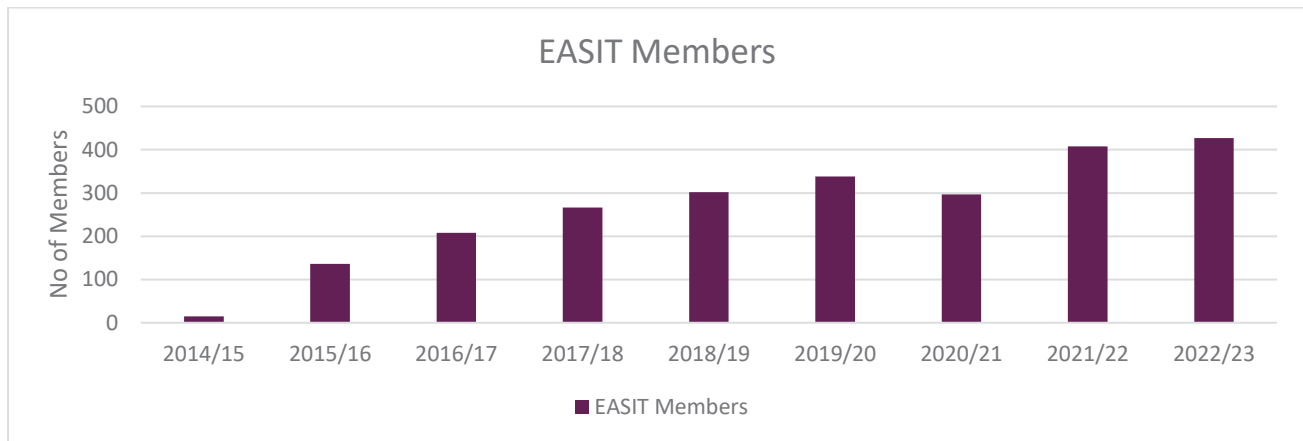


Figure 10 – EASIT Members by year

## Waste



The University carried out a waste tender exercise in collaboration with the SCAG (South Coast Affinity Group) in 2022/23 and have re-entered into a waste contract with SUEZ Environmental from January 2023 which has run for 5 years. The collaborative contract as part of SCAG, over the last 7 years, has led to the University achieving zero waste to landfill from 2013 and a significant improvement in its recycling rate.

	2022/23 (Tonnes)
<b>Total Waste to Landfill</b>	0
<b>Total Energy From Waste</b>	162
<b>Total Recycled</b>	280
<b>Total Waste Weight</b>	442
<b>Total Recycling Rate</b>	70%

Figure 11 – Waste breakdown per year

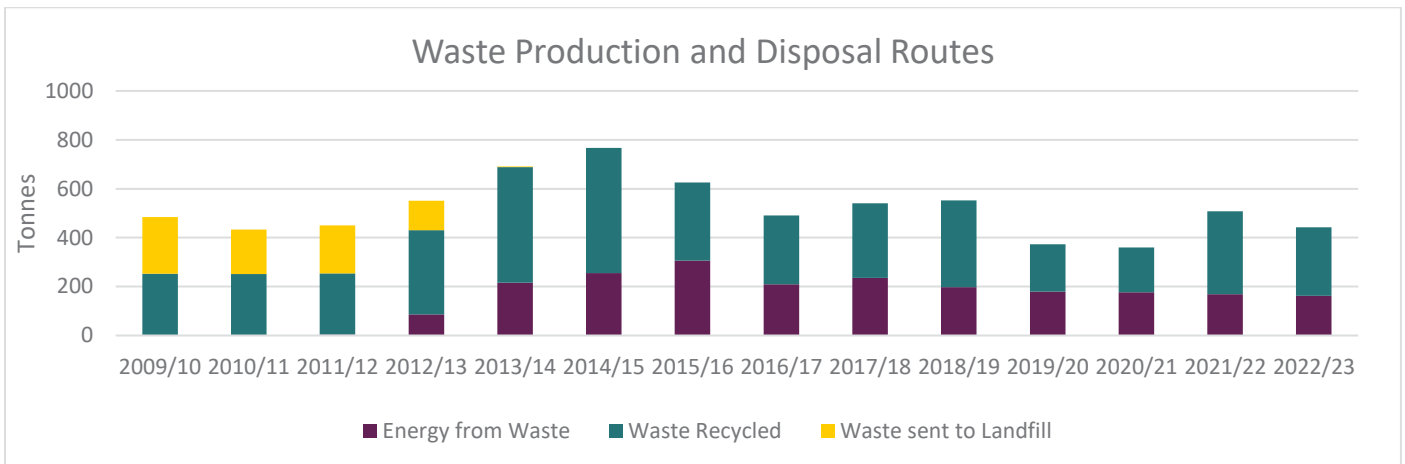


Figure 12- Total Waste Production by year

2022/23 saw the universities recycling rates get to 70%, an increase of 3% from the year before. Alongside this the total volume of waste produced by the university has decreased by 13% when compared to the previous year.

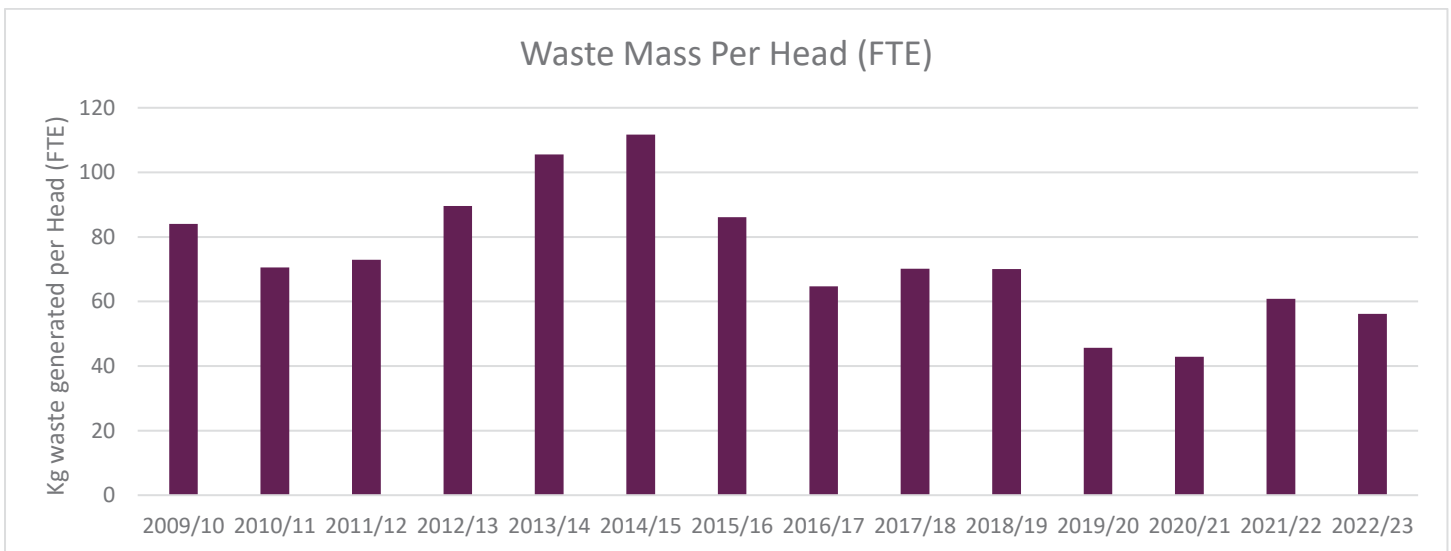


Figure 13 – Waste Mass Per FTE by year

Figure 12 shows that the amount of waste being generated by each member of staff and student has also decreased. The large decrease in waste mass per head in 2019/20 and 2020/21 must take into account the impact of the Global Pandemic as the amount of waste being generated and the number of staff and students on campus was minimal during lockdown periods. 2018/19 is the year comparable to 2021/22 and we can see a 10kg reduction per FTE. A 8% reduction in waste mass per head was seen in 2022/23 compared to the previous year.

## Chewing Gum

In September 2016, the University entered into a contract with Gumdrop Ltd to collect and recycle chewing gum and installed 11 Gumdrop bins across King Alfred and West Downs campuses. In the first year (2016/17), the University collected 3kg of chewing gum which was sent onto Gumdrop to be recycled into new plastic products, including reusable Gum-tec Americano mugs. These Gum-drop bins have now been in place for 7 years have made a marked improvement to the amount of chewing gum littering the campus. Gumdrop Cups are then given out to students and staff to reduce reliance on single use plastics. Individual use gum recycling pods were also given out to students during the freshers fayre.

## Coffee Cups

The University runs an award-winning disposable coffee cup reduction initiative. In 2016, a 25p surcharge was introduced on all hot and cold drinks purchased in a disposable cup, this was further increased to 50p in August 2022. All first-year students and new staff are given a Gum-tec Americano mug, made partly from of the recycled chewing gum collected on campus. This initiative aims to reduce the number of disposable cups used on campus.

In 2018/19 to reduce disposables reusable china mugs began being offered in coffee outlets across campus. A Deposit Cup Scheme was introduced which offers students and staff an opportunity to purchase a cup for £1 which is refunded if returned after use. These initiatives have produced a significant change in consumer behaviour with sales of drinks in reusable cups increasing substantially.

The pandemic did have an impact on reuse figures but 2022/23 saw 52% of all hot drinks sales being sold in a reusable cup.

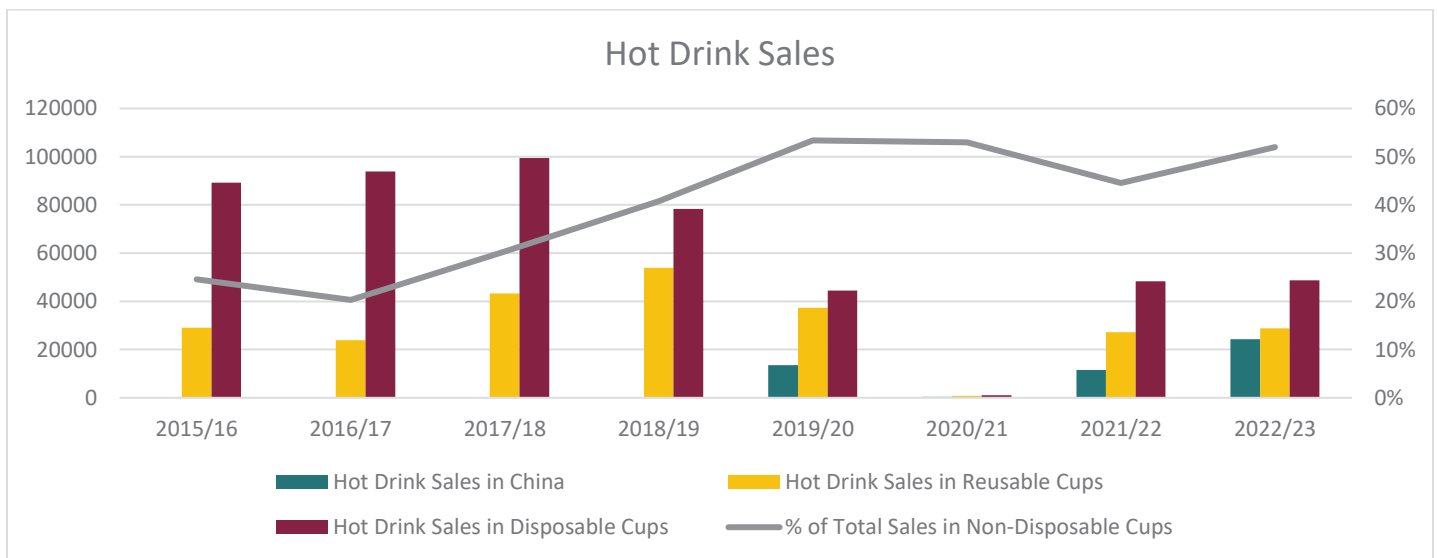


Figure 14 – Hot drinks sales breakdown per year

## End of Term Move-Out

In 2022/23, the University repeated its end-of-year move-out recycling initiative called 'Bag It Up'. Students are asked to donate unwanted items such as clothing, kitchenware, books and unused food when they vacate their Halls of Residence. This was the fifth successive year of the Bag it Up campaign (having been skipped in 2019/20) and saw good student engagement with the scheme.

The 2022/23 campaign saved over 950kg of items from going to waste and instead saw them donated to local charities around Winchester. These items included clothing, homeware, kitchenware, bedding and food. Over 116 bags were donated by students which saw over 140kg of food go to the local food bank. The University is proud to have worked with Winchester Basics Bank, Unit 12 Winchester, Trinity and Emmaus on this project.





Figure 15 – Student volunteers sorting Bag It Up items for collection

## Plastic Free University Status

In July 2022 the University were officially awarded our Plastic Free University status from national charity Surfers Against Sewage (SAS).

In 2018 the University made an official statement that it would begin work to remove all un-necessary single-use plastics from its operations. A lot of this work aligned with the SAS community accreditation so we decided we would also work towards this award.

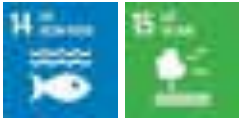
This award of 'Plastic Free Communities' Status highlights the work and commitment as an institution we have made to tackling single-use plastics. It by no means signals we are plastic-free, and we do not claim to be, but we are clear that we view SUP as a problem and have made a commitment to do what we can feasibly to remove them from our operations.

The award shows we are tackling the problem at the source and engaging our community to think about our impact. But it also recognises that this is only the beginning. As part of the award we have been moved into the next phase of the scheme which is 'Continuing the Journey' where we can build on the momentum both within the university but also in the wider community



Figure 16 – Plastic Free University Status Award Badge

## Biodiversity



The University of Winchester has been recognised for its hedgehog-friendly campus with a prestigious Gold Hedgehog Friendly award from the British Hedgehog Preservation Society (BHPS).

The Gold award comes after three years' hard work which began in 2019 and has seen students and staff create hedgehog friendly habitats, set up feeding stations and help to survey hedgehog activity on campus.

The many initiatives undertaken as part of creating a hedgehog-friendly environment included a collaboration between the University and neighbouring Royal Hampshire County Hospital (RHCH) to make Burma Road – which bisects the University's main campus and the RHCH site - the first in Winchester to install road signs requesting drivers to slow down in case there are hedgehogs crossing.

The University of Winchester is one of 13 universities across the UK to achieve Gold status in 2022.

The accreditation follows the team's successful Bronze accreditation in the 2019/20 academic year and a Silver accreditation in 2021.

## Emissions

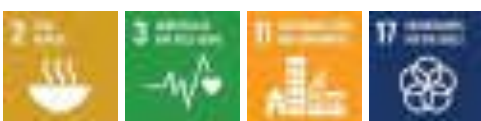


The University holds three Discharge Consents covering wastewater from our laundries discharged to the mains sewers as trade effluent. We do not operate any soakaways on campus. Neither do we generate any emissions to air that require a permit. As required by law, the University closely monitors F Gas emissions from air handling units which are regularly maintained. Unfortunately 2021/22 saw 32.5tCO<sub>2</sub> produced from F-gas losses from catering equipment. This equipment has largely been replaced and there were no reported F gas losses in 2022/23.

Planned actions in the coming year to minimise emissions to air, ground or water courses include:

- Implementing Spill Awareness Training for Maintenance, Grounds and Project Staff;
- Marking up of surface and foul drain covers indicate either foul or storm water and flow direction by end 2023/24, in accordance with our Site Drainage Plan.
- Maintaining and improving F Gas Register with target of maintaining zero fugitive emissions.
- Continuing compliance with conditions of Discharge Consents.

## Community



## Reputation

The University continues to support the Hampshire Sustainable Business Network and the Environment & Sustainability Manager regularly attends regional and national HE and Public Sector networking meetings.

### People and Planet Green League

In 2022/23, the University was given a 2:1 rating in the People & Planet Green League, ranking 33<sup>rd</sup> out of 153 HEIs. A set of new environmental pages on the University's external website detailing all sustainability initiatives in place under the banner Green Campus helped showcase our achievements to People and Planet. These included ethical investment, staff and student engagement, education for sustainable development and biodiversity commitments. The information presented is used by People & Planet, in combination with EMR data submitted in the University's HESA return to score the institution's environmental and ethical credentials and determine the Green League ranking.

The University also finished in the top ten of all universities in the Energy Sources ranking of the league table.



Figure 18 – Top Ten in Energy Sources, People and Planet University League badge

### My Green Lab Certification

Recognised by the UN Race to Zero campaign as a key measure of progress towards a zero-carbon future, My Green Lab Certification is considered the gold standard for laboratory sustainability best practices around the world. The Centre for Sport Laboratories were successfully awarded platinum level certification for their outstanding work in reducing the environmental impact of their lab space in October 2022. The Archaeology, Anthropology, Geography and Forensics Labs are also currently working towards this accreditation, having completed the first 2 stages of implementation and hope to complete the third stage and to be awarded certification in 2022/23. Please find a copy of the CFS platinum award certificate in appendix 3.

### GO GREEN WEEK 2023

The University hosts an annual Go Green Week in collaboration the Student Union every spring. The most recent university Go Green Week featured a full and exciting programme of activities including a plastic pledge event, a climate anxiety coffee session, coffee cup giveaway and an exciting active travel showcase.



## Supporting Local Charities



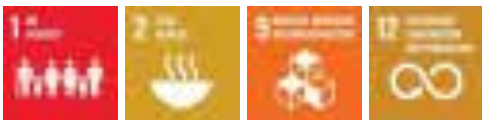
### **Winchester Basics Bank, Winchester Beacon, Trinity & Emmaus**

The University formed a close working relationship with a number of local charities through the Universities end of term Bag It Up donations. We hope to continue to support them in 2023/24.

### **WinACC**

The University continues to support Winchester Action on Climate Change (WinACC) with free office space. The nominated trustee for the University is Professor Robert Beckford, Director of the Institute for Climate and Social Justice.

## Procurement



The University has clear procurement policies and sustainability has been embedded into these policies. Staff involved in buying activity across the University have been trained on their procurement approach and how this should align with the environmental and sustainability objectives of the University. These policies are reviewed throughout the financial year.

Examples of this can be seen in university tendered contracts such as stationery, where daily deliveries were rescheduled to twice a week, electric vehicles introduced when replacing older vehicles and single use plastics greatly reduced across a wide product range. Another example can be seen in the recently tendered Graduation Services Contract where our specifications dictated the usage of sustainable and ethically sourced materials in all gowns and supporting clothing.

The University's travel contract was retendered in Autumn 2021 with the new contract producing more granular data on carbon emissions from staff business travel. The new travel bureau is fully committed to supporting the University with all key sustainable policies and targets.

Targets for the coming year include:

- Accurate capture of carbon data from business travel
- Introduction of a Carbon Conscious Researcher policy which will restrict business air travel
- Further improvements in Sustainable Procurement to more accurately record Scope 3 emissions from goods and services.

## Ethical Finance



The University is committed to environmental sustainability through the implementation of its ethical investment policy and regular review of its investment portfolio.

The University will never knowingly invest in companies with any link to the production of munitions, tobacco, pornography, gambling or any company that is primarily focused on coal or oil extraction or processing. The University does not intentionally invest directly (or through collective funds) in fossil fuel companies, arms companies or corporations complicit in the violation of international law..

The University is committed to helping protect and preserve the global environment and in terms of environmental sustainability, does not invest directly in organisations that do not have policies to control and significantly reduce the risk of serious negative environmental impact. Nor does the University knowingly invest directly or indirectly in organisations that breach human or animal rights or that breach the Modern Slavery Act 2015

The University has an Ethical Investment Policy which can be accessed via the Policies and Procedures section of the website.

In 2018/19, the new West Downs Centre Building became the first building in the HE Sector to be funded using an ethical finance.

## Food



The University of Winchester continued to be a leader with regards to sustainable food, particularly in the Higher Education sector, but has faced a number of difficulties across the supply chains following in the wake of Brexit.

The Catering department have worked hard to provide the most ethical and sustainable catering possible and always look to make improvements in their supply chains to introduce more local and sustainable products.

Although the ethical food policy supports the procurement of free range pork and chicken, it has been difficult to maintain regular supplies due to the supply chain issues through Brexit and the ongoing economic crisis. In fact, the lack of free range meat supply has led to the reintroduction of organic beef in our Food Halls. This option was taken to support the reduction in use of farm assured chicken, as although the carbon footprint has increased slightly, this was secondary to the importance in increasing the use of higher welfare meat, such as organic grass-fed beef, over farm assured chicken.

Organic milk remains the standard for all coffee bar outlets across campus, but organic eggs have been replaced with locally sourced free range eggs produced at a farm less than two miles from the university. We have maintained the use of Marine Stewardship Council (MSC) fish and associated MSC accreditation,

The department has continued to buy seasonal and local produce wherever possible, as well as Fairtrade bananas.

The University, as signatory of the Humane Society's Creature Kind Commitment, continues to endorse the use of non-meat and dairy alternatives, such as oat, soya and coconut milk. The use of oat milk has increase substantially since the decision to remove the surcharge for milk alternatives in the coffee bars and the introduction of a local oat milk supplier, further supports the local economy. Plant based options remain an important part of menu development and alongside vegan cheese there are a wide number or meat alternatives in use, including salami, tofu and Quorn products which are available across campus including pizzas and burger toppings as well plant based main courses and snacks.

The department continues to review the purchase of new equipment to include the full life costing and continue to install and maintain energy saving devices such as induction hobs, Frima cooking stations and the new Rational Combi ovens to replace old gas ovens. All kitchens will also benefit from the variable extract system from quintex. Where possible, heat recovery units will be installed, these recycle the heat from remote chillers to create "free" hot water for the department

The University, continues to be a Hampshire Fare member, supporting individual supplier members. The Catering Manager sits on a number of different groups including The Winchester Fairtrade Network, the National Sustainability group for The University Caterers Organisation (TUCO) and the TUCO palm oil group to work with the Roundtable on Sustainable Palm Oil (RSPO) on a wider accreditation system for universities. The department has previously been awarded a number of accolades for its sustainable food including;

- Sustainable Restaurant Association (SRA) 3-star Accreditation, the first University to achieve this. Top 20 status in 2017/18 out of 6,000 SRA businesses
- Soil Association accreditation for a variety of menus including Silver and Gold, although the campus wide audit has placed the department at silver
- Compassion in World Farming (CIWF) Good Egg award for using only free-range eggs
- CIWF Good Chicken award for using only free-range chicken, yet another first for the sector.
- Good Dairy Award for using organic milk, sourced locally when available.
- Received MSC accreditation from TUCO and MSC in 2020

In collaboration with the Humane Society International the department continues to monitor their CO<sub>2</sub>e output in relation to meat and dairy use and it's reduction by the inclusion of plant-based alternatives within the menus.

Catering continues to support the Better Chicken Commitment and are advocates of the Eating Better campaign. To further support Eating better and raise awareness of reducing meat consumption the team appeared in the national campaign video, which is now used across campus on the department's promotional videos. Winchester continues to work with Friends of the Earth on their Kale Yeah campaign, but the FoE planned accreditation process will no longer continue, however the university recognise the benefits of this green nudging campaign and will continue to promote it as it has produced positive steps to reduce or remove meat from students and staff diets on campus.

To support the improvement of nutrition within recipes as well as the development of cooking programmes, the department have been working with academic departments, including the Faculty of Health and Wellbeing, and the Widening Participation team. The chefs supported weekly cookery classes last summer for the students, providing much welcome development of basic skills as well as ideas for scratch cooking.

## Paper Consumption



The University continues to buy only 100% recycled paper and has worked hard to reduce its paper consumption by the use of innovative technology, portable devices and online submission.

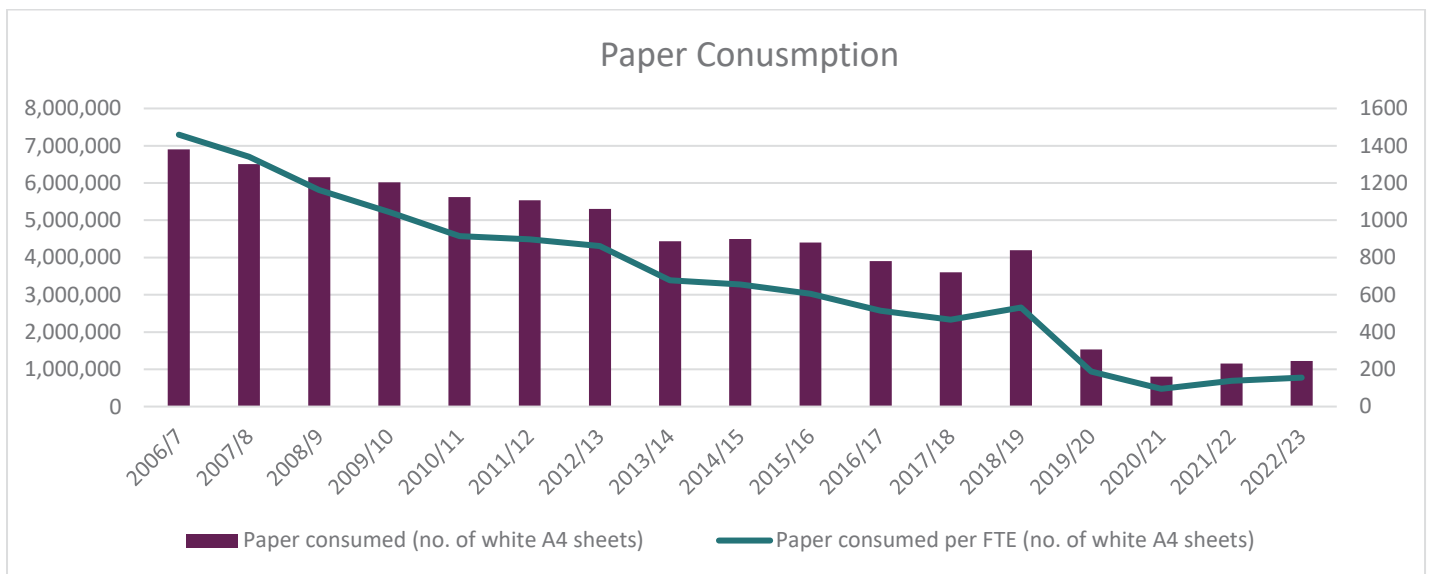


Figure 19 – Sheets of paper consumed by year total and per FTE

The amount of paper consumed by the university increased slightly in 2022/23 compared to the previous year, increasing to 156 sheets per student FTE in 2022/23 from 138 sheets per FTE in 2021/22 (an increase of 13%). In 2006/7 the University consumed 6.9m sheets of paper overall but this had reduced to 1.2m sheets in 2022/23, a reduction of 82% in total and a reduction of 89% in terms of sheets of paper per FTE.

## Sustainable Buildings



The University sustainable building policy aims to ensure that all major construction projects are built to sector-leading environmental standards. The policy is informed by industry leading organisations on sustainable building, including UK Green Building Council (UKGBC) membership and the London Energy Transformation Initiative (LETI).

The University estates medium- and long-term plan sets out a framework of estate development to manage change and renewal by reusing buildings where possible and developing sector-leading new buildings where required. Poorly performing buildings have been prioritised for redevelopment which helps maintain and improve portfolio building performance. New buildings are targeted to meet the highest practical standards meeting or exceeding sector best practice.

The standards adopted will vary depending on building type and location but will always be founded on the values of the University. Typical standards which could be applied include BREEAM Outstanding and Passivhaus in terms of general sustainability and energy use, sometimes a bespoke approach will be developed. Additionally, all designs will be informed by health and wellbeing design principles and life cycle carbon emissions.

### **REFIT / Public Sector Decarbonisation Scheme (PSDS)**

In 2021/22, the University delivered the Public Sector Decarbonisation Programme (PSDS) installation. The PSDS funding covered installation of 34 Air Source Heat Pumps (replacing gas boilers), completion of LED lighting roll-out, installation of smart heating controls in West Downs Student village and in other building across campus and the installation of Solar PV panels on 4 more buildings. The University used the REFIT framework, an Energy Performance Contract framework, for procurement of these large scale energy efficiency measures. Work commenced on site in Spring 2021 and was completed in 2023.

This investment has been made possible by a £3.12m grant from Salix. Lead contractor Ameresco have provided guaranteed cost savings of £102k /yr and carbon savings of 505 tCO<sub>2</sub>e/yr.



Appendix 1 Copy of renewable gas guarantee of origin certificate for 2021/22, carried over into 2022/23

# GreenGas

## CERTIFICATION SCHEME

<b>RGGOs issued on:</b>	14/10/2021 14:30:51
<b>RGGOs retired on:</b>	14/10/2022 16:02:24
<b>Retirement statement downloaded on:</b>	14/10/2022 17:08:05
<b>RGGOs allocated to:</b>	<b>THE UNIVERSITY OF WINCHESTER</b>
<b>Renewable Gas Guarantees of Origin (RGGOs):</b>	<b>G0068AC00005519E0820 to G0068AC00243786E0620</b>
<b>Injection date:</b>	22/07/2020 to 16/06/2020
<b>Business information:</b>	GCCS - Biomass (Unspecified) Classification (Product/Co-product)
<b>RGGOs issued by:</b>	GCCS - UK
<b>Amount:</b>	238268 kWh
<b>Production support received:</b>	No
<b>Sustainability criteria met:</b>	Non-Domestic Renewable Heat Incentive (NDRI) - UK
<b>Certificate pin number:</b>	15ubck
<b>Green gas producer:</b>	<b>Murray AD Plant Ltd</b> Summer Farm, Cattle Drive, Murray, Walsby, PE15 4WJ, Green Gas (Biomethane) Process (Anaerobic Digestion), Delivery point Injection - Metering Point 00000200501, Commissioning Date (Aug 20), Capacity (20 MW), Investment Support (No)
<b>Retirement statement generated by:</b>	<b>30011 - Corona Energy Retail 4 Limited</b> Building 2, Level 2, Crickley Park, Watford, WD18 8YA

This RGGOs total on this Retirement Statement have been allocated to the entity named and cannot be transferred or allocated to any other entity.

These RGGOs have been issued according to a calculation of the number of kWh of green gas produced, net of any flared gas consumed during the production process. For more information, visit <https://www.greengas.org.uk/retirement>.

Sustainability Criteria – the Non-Domestic Renewable Heat Incentive (NDRI) (2014) (20) criteria require that biogas volumes generated with the production of biogas are used to replace the gas it is made from (20.25 kWh gas equivalent per kWh).

For more information about the NDRI and other sustainability criteria that may be stated above, visit <https://www.gov.uk/guidance/non-domestic-renewable-heat-incentive>.

Any kWh issued under a flared gas gas are included against the total capacity value, whereas the kWh represented by this RGGOs are the higher capacity value of the green gas.

To verify the this Retirement Statement is genuine, visit <https://www.greengas.org.uk/retirement>.

For information about sustainability claims, visit <https://www.greengas.org.uk/retirement>.

**Issue this Retirement Statement**

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# GreenGas

## CERTIFICATION SCHEME

RGGOs issued on: 30/07/2021 15:41:22  
 RGGOs retired on: 14/10/2022 10:58:58  
 Retirement statement downloaded on: 14/10/2022 17:08:22

RGGOs allocated to: **THE UNIVERSITY OF WINCHESTER**

Renewable Gas Guarantees of Origin (RGGOs): **G0068AC00000001E0021 to G0068AC04761732E0021**

Injection date: 15/02/2021 to 18/05/2021  
 Biomass information: GGC3 - Biomass (Unspecified) Classification (Product/Co-product)  
 RGGOs issued by: GGC3 - UK  
 Amount: 4761732 kWh  
 Production support received: Yes  
 Sustainability criteria met: Non-Domestic Renewable Heat Incentive (NDRHI) - UK  
 Certificate pin number: 398157  
 Green gas producer: **Murray AD Plant Ltd**  
 Sarswood Farm, Cants Drive, Murray, Wiltshire, PE13 4HN, Green Gas (Biomethane) Process (Anaerobic Digestion), Delivery (2nd Injection) - Metering Point (0000026050), Commissioning Date (Aug '20), Capacity (20 MW), Investment Support (No)  
 Retirement statement generated by: **50011 - Corona Energy Retail & Limited**  
 Building 2, Level 2, Crookley Park, Watford, W12 8PA

The data is based on the Retirement Statement which has been allocated to the party listed and cannot be transferred or allocated to any other party.

These RGGOs have been issued according to a calculation of the amount of kWh of green gas produced, net of any fossil gas treatment during the production process. For more information visit [www.coronarenewables.com](https://www.coronarenewables.com).

Sustainability Criteria - The Non-Domestic Renewable Heat Incentive (NDRHI) 2017 criteria requires that biomass processes allocated with the production of biomethane, as well as injected into the grid to be more than 100.00 g/GJ methane per kWh.

For more information about the NDRHI and other sustainability criteria that may be stated above, visit [www.gov.uk/government/consultations/national-renewable-heat-incentive-2017](http://www.gov.uk/government/consultations/national-renewable-heat-incentive-2017).

Any GHG values related to the production of green gas are calculated against the best available value, adjusted for the GHG necessary to be RGGOs, at the highest possible value of the green gas.

To verify the Retirement Statement is genuine, visit <https://www.coronarenewables.com/retirement>.

For information about additional claims, visit [www.coronarenewables.com/retirement](https://www.coronarenewables.com/retirement).

### About this Certificate

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My Green Lab presents this certificate to:

**University of Winchester**  
**Centre for Sport Laboratories**

for outstanding work in reducing the environmental impact of their laboratory space and for their successful completion of the My Green Lab Certification Program as a **Platinum Level Certified Lab** in October 2022



**my green lab**  
**certification.**

James Connolly  
CEO, My Green Lab