

LEICESTER COLLEGE

23rd March 2023

SUSTAINABILITY UPDATE

1. INTRODUCTION

1.1. This paper provides a sustainability update on College activities during 2022/23.

2. BACKGROUND

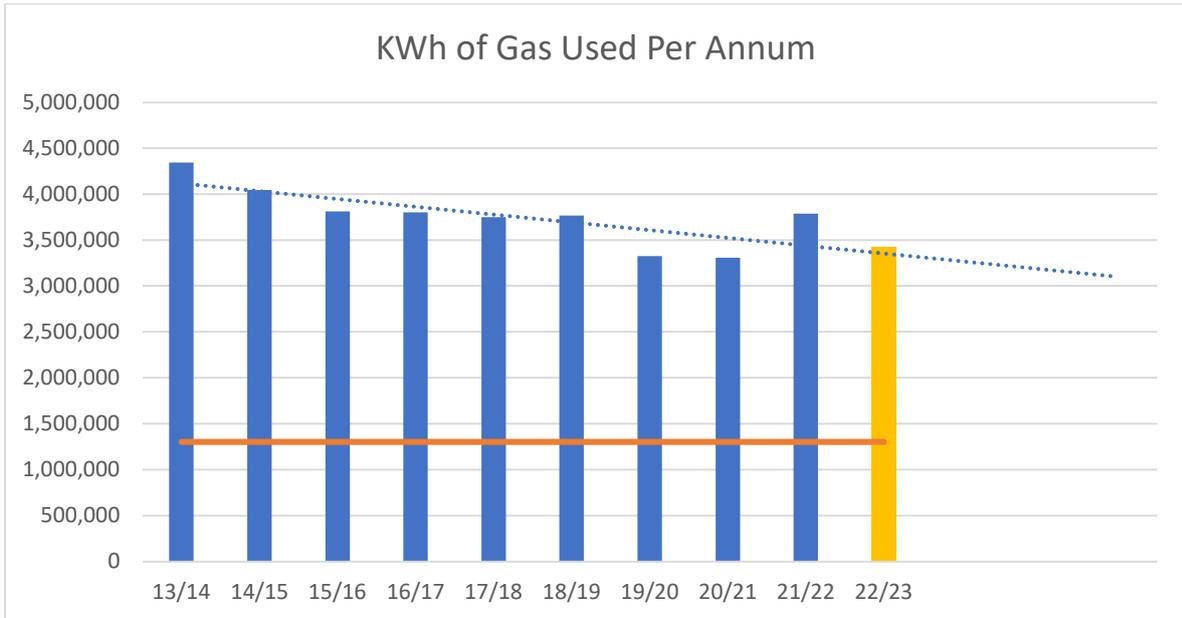
2.1. This paper provides a mid-year update on sustainability in both support and curriculum activities. A full Annual Sustainability Review is presented to Corporation each academic year.

3. UTILITY CONSUMPTION

3.1. Gas

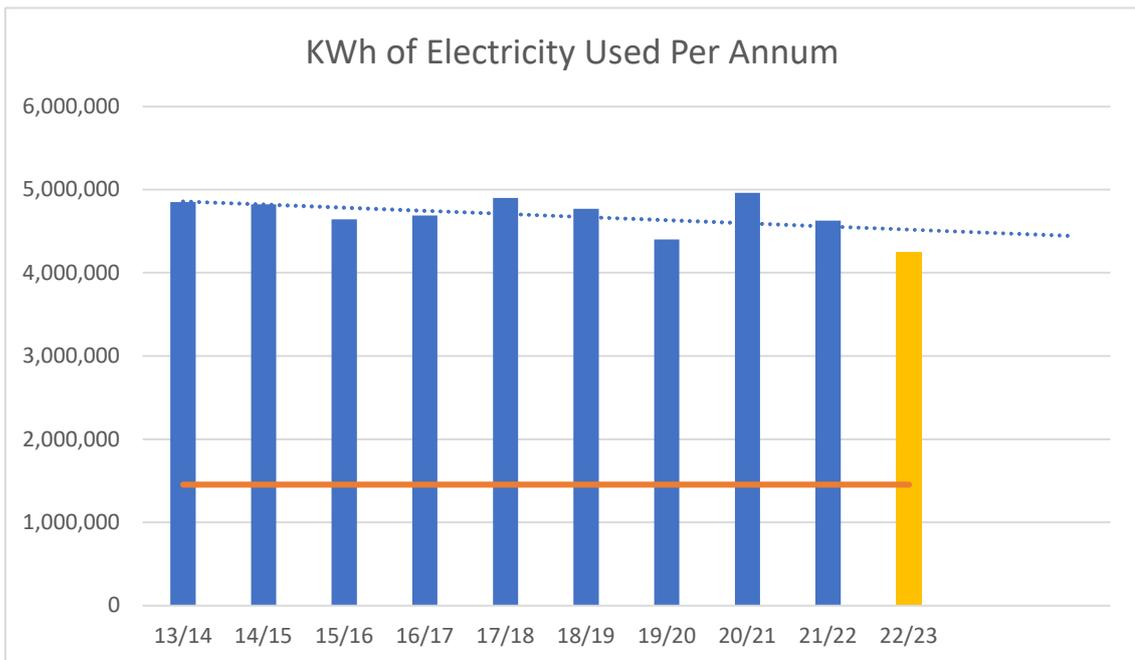
3.1.1. The College's main campuses and outreach centres (minus the Sue Townsend Theatre and City Skills Centre) are all served by gas. This contract was renewed March 2022 for a period of 12 months.

3.1.2. The chart below shows historic performance with the current year being forecasted consumption which is on track to show a 10% reduction on the previous years figure. The Colleges ambitious KPI aiming for a 70% reduction is demand by the end of the 2025/26 academic is represented by the horizontal orange line.

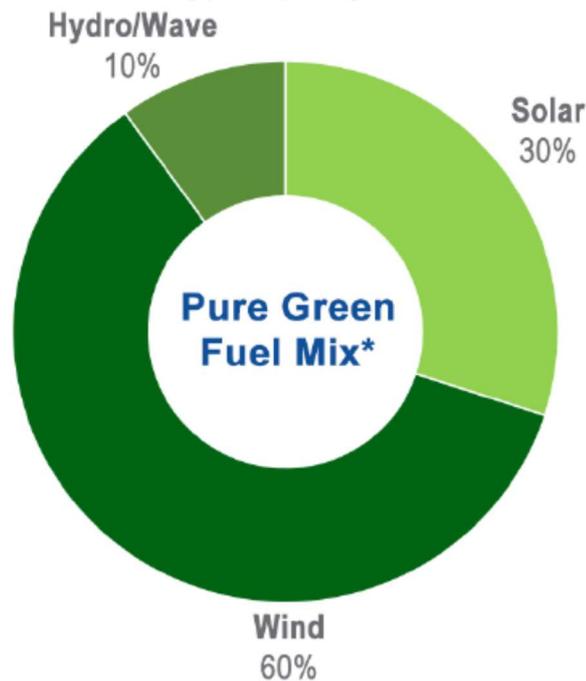


3.2. Electricity

- 3.2.1. Over the past 8 years the overall trend of electrical usage has been one of reduction. This is forecast to continue this year with the Colleges medium term KPI reduction target highlighted in orange.
- 3.2.2. The College's current energy provider, West Mercia Energy, provides electricity on a Pure Green basis.



* The actual generation mix cannot be guaranteed until after the delivery period (when generation is confirmed)



4. GREEN TRAVEL

4.1. Sustainable travel of both students and staff represents a large body of work and an important area in helping the College continue to offset its carbon emissions. In terms of work carried out during this academic year:

- 4.1.1. Dr Bike – free bicycle MOTs for staff and students, which occurs times a year at all campuses with circa 30 bikes being repaired each session.
- 4.1.2. Installation 10 EV charging points across campus for staff and visitors.

5. FOOD INC REFECTORIES

5.1. The College currently operates from three refectories within the main campuses. As part of these numerous sustainable initiatives have been completed including:

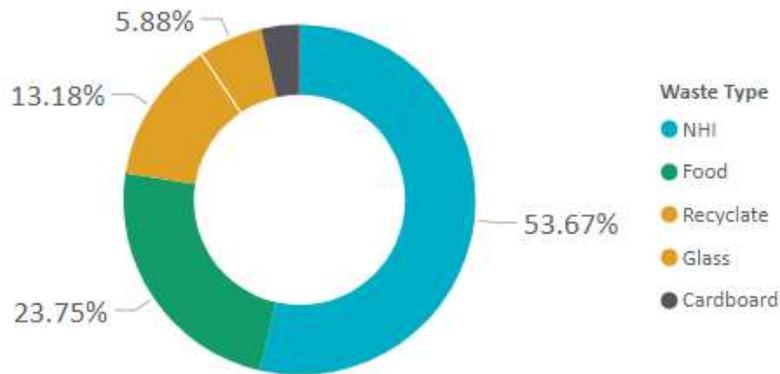
- Sale of Fairtrade teas, coffee, and chocolate. Sale of 100% sustainably sourced cocoa chocolate bars.
- Recycling of used cooking oil, glass wear and clear plastic cutlery, disposable containers, along with PTET1 plastic water bottles fully recyclable, including label and cap.
- Removing polystyrene from take away containers. Now only recyclable containers are used

- Food waste goes to an anaerobic digester plant - bio generator
- Using local suppliers to reduce food miles. - LIFE (local, independent, fair, ethical) with a 50-mile radius where possible
- Offering 'use your own cup' incentives.
- Buying in season food and vegetables, where possible
- Enacted Food Waste Action Week
- All Campuses switched to 'Meat Free Mondays'

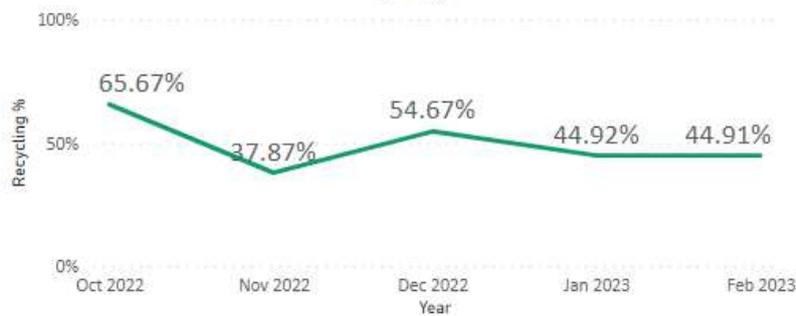
6. WASTE

- 7.1. The College commenced contract with a new waste provider in October 2022 and the reporting streams have increased greatly. To date 100% of waste has been diverted from landfill with an average of 50% of waste being recycled.

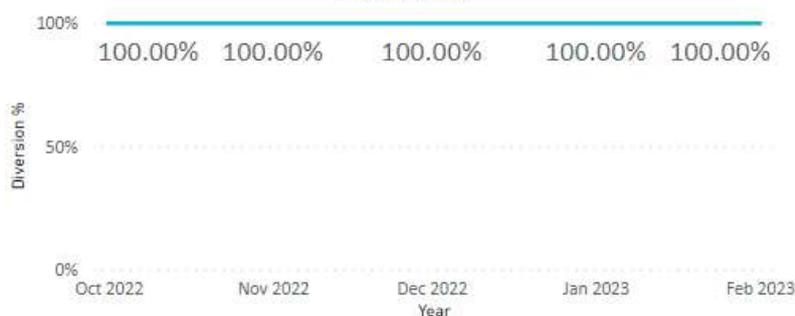
Total Weight (kg) by Waste Type



Recycling %

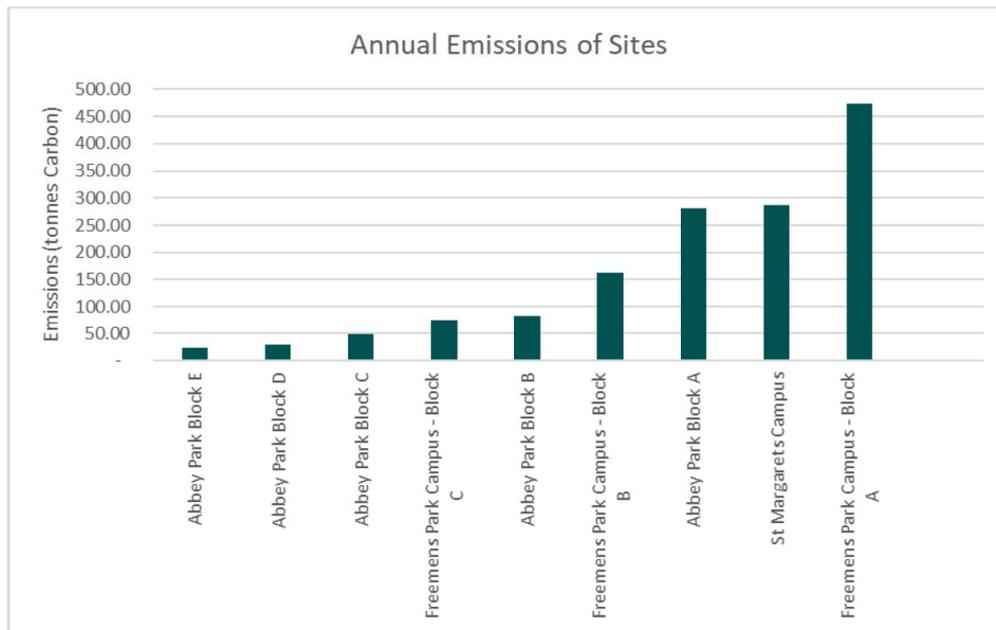


Diversion %



8. ENERGY BENCHMARKING

8.1. Across the College estate there is a broad variation in terms of emissions. Freemans Block A uses the most energy despite not being the largest in terms of Net Internal Floor Area (both Abbey Block A and St Margaret's are slightly larger). The older building and heating systems are resulting in this campus having higher carbon intensities as can be witnessed in the chart below.



9. AOC ROADMAP

9.1. The College continues to progress along the AoC Roadmap, firmly establishing itself in the established category with the aim of being a leading institution. The Roadmap itself can be found in Appendix A.

10. LEICESTER CLIMATE PARTNERSHIP

10.1. Alongside 17 other City based organisations the College is a founding member of Leicester Climate Partnership. To date 4 meetings have occurred and the outline of work programme has been established with the following work themes:

1. Sharing knowledge on decarbonisation
2. Skills workforce training
3. Procurement
4. Energy networks and grid capacity
5. Communications and engagement
6. Education and research
7. Adaptation and nature recovery

11. DECARBONISATION PLAN

11.1. In 2022 the College was successful in receiving £25,000 of SALIX funding to formulate a Decarbonisation Plan. This plan has now been produced.

11.2. The review found that energy usage could be reduced by 59.5%, saving approximately £572,258 and 838.8 tonnes of CO₂e emissions per year. If this residual energy usage was then purchased from a 100% renewable source

(ideally REGO or GoO backed, which is currently happening as outlined earlier in report) then Leicester College would be Net Zero Carbon. The cost to achieve this is £6,364,076 ex VAT with some areas representing minimal payback periods.

12. CURRICULUM DELIVERY

12.1. Across curriculum a number of initiatives have been/are being enacted including the following.

12.1.1. A team of Sustainability Ambassadors have been appointed across most directorates in the college and have undertaken training in embedding sustainability within TLA, with external consultant. There is a clear focus of role (2 hours remission per week) as follows:

- Promote practical ways to support the programme area in being more sustainably aware, through teaching and learning, use of resources and curriculum embedding
- Undertake relevant training or qualifications and cascade training within the programme area
- Develop and share a measurable sustainability pledge for the programme area, with the support of staff
- Take part in cross college initiatives to support sustainability
- Meet with other ambassadors to share good practice and work with careers advisors and marketing to ensure that employment opportunities in environmental fields are understood and promoted
- Support the programme area in developing a road map to a green curriculum, using the ETF mapping and audit tool
- Feedback on progress to the Sustainability Curriculum working group

12.1.2. Sustainability Ambassadors have agreed the following collective pledges:

- Use of Teams for storing resources to encourage a 'paperless classroom'
- On line programme handbooks for students
- Wider use of copy services
- Further development of laptop use in classrooms
- Additional information around sustainability embedding on the scheme of learning for 2023-24

12.2. Project in Engineering to develop and grow training programmes for students and industry around electric and hydrogen technology/vehicles is underway, with the first cohorts starting in March 2023

12.3. Programmes for staff (Study certificate in Understanding Environmental Sustainability) have been promoted. Generic sustainability awareness training available to all staff as part of the mandatory professional development

12.4. Sustainability awareness training for students embedded within the Personal Development programme – to be updated for 2023-24

12.5. External meeting with LA undertaken with Student Union President to establish commitment to city 'Big Bus Plan' and carbon neutral commitment. We have shared travel to learn patterns to emphasis the importance of engagement with the college on the issues

12.6. Undertaken meeting with LA schools environmental lead and agree:

- College can participate in LA carbon literacy training
- The college will host a green roadshow for the LA/schools
- We will start to develop progress towards a recognised green award with their support
- We will attend the LA green celebration event at City Hall 6th July

12.7. The College will hold a market place of good practice to celebrate curriculum green initiatives as part of the staff development day 29th June to share practice and raise awareness

13. OBJECTIVES FOR 2022/23

13.1.A recap on performance against the objectives outlined in the Sustainability Annual Review (October 2022) can be found in the table below:

OBJECTIVE	UPDATE
· Continuing progress with the AoC sustainability roadmap	Continued work on roadmap being achieved
· Install Green Living Roof over walkway between A and B Block to increase College Bio-Diversity	On target to be completed over Easter
· Complete 'Sustainable Classroom' concept	Complete. Branding to be completed over Easter
· Work with Aquafund UK to reduce water consumption	Billing data being reviewed by Aquafund in Stage 1
· Driving through CO2 emission reductions through careful management of the Building Management Systems across College.	Forecasting a 10% drop in gas consumption through BMS controls
· To deliver the newly refurbished APC B Block Engineering Centre with a host of renewable technologies including Air Source Heat pumps and AHU ventilation.	Utilisation of the existing plant is occurring with an increase in AHU ventilation.

<ul style="list-style-type: none"> · Deliver Decarbonisation Plan with external consultants and apply for SALIX grant funding off the back of conclusions. 	Decarbonisation Plan appended to report
<ul style="list-style-type: none"> · Upskilling within the estates team on measuring Scope 3 emissions and reporting on these within annual report. 	RICS CPD been completed with further courses being investigated.
<ul style="list-style-type: none"> · Producing an annual streamlined carbon usage report and ensure visibility. 	Complete for 2022/23
<ul style="list-style-type: none"> · Obtaining annual Display Energy Certificates (DECs) for buildings and acting on any findings. 	Complete for 2022/23
<ul style="list-style-type: none"> · Reducing waste tonnage produced by College and increasing the amount of this diverted from landfill 	New energy supplier procured, more waste diverted from landfill
<ul style="list-style-type: none"> · Working with local partners on delivering the Net Zero agenda. 	LC chairing Leicester Climate Partnership
<ul style="list-style-type: none"> · Continue to increase the amount of meat free alternatives available in College refectories. 	A number of meat free alternatives are available most days. This has proved most popular at SMC.
<ul style="list-style-type: none"> · Helping to in bed Sustainable Development Goals within curriculum delivery 	Curriculum sub-group established by Debi Donnarumma
<ul style="list-style-type: none"> · Work with Santander Cycles on projects relating to marketing of E-Bike scheme with the vision of a station being installed on campus. 	Santander Cycle scheme unfortunately has gone into liquidation and is no longer present in the City.
<ul style="list-style-type: none"> · Install up to 6 electric vehicle charging points including 'fast charging points' around the campus as part of a successful SDF bid. 	10 installed across campuses, 3 FPC, 4 APC and 3 SMC
<ul style="list-style-type: none"> · Procure an electric van to replace the College's combustion engine post van. 	The van is ordered but is now on a 11 month lead time
<ul style="list-style-type: none"> · Completion of out of hours energy audits 	To be completed
<ul style="list-style-type: none"> · Students to complete a form of Sustainability awareness 	Sustainability awareness to be included in 2023/24 development programme.
<ul style="list-style-type: none"> · Each curriculum area to be represented by an Environmental Champion. 	Sustainability ambassadors appointed

APPENDIX A - ROADMAP

