

## Moving towards zero waste

# A Sustainable Waste Management Strategy for the University of Worcester 2020-2030

# THE MORE YOLL RECYCLE

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**USE THE RIGHT BIN** 

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and for high risk ohazardous streams (e, ghazardous waste, clinical and biological waste, waste electrical and electronic (WEEE), etc).

### Net Zero Carbon

6. Analysisof the University's carbon footprint antide likely trajectories for all carbon scopes in a 1.5°Cwarmingscenario have confirmed that the Univeu-0 0 1(p)6 t2ve6(f)692 (it)t ths-1 (o)2 (n)1t >>

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- utilising Green Impact, Student Switch Off and Green Impact Students' Union by collaborating with the SU and their societies
- 6. Monitoring and evaluating waste management practice sonthly monitoring and evaluation meetings take place to ensumer waste management practices identifyeas for improvement and toensure that this strategy is effective
- 8. We are continually working at ways residucing the number of items we procure (see procurement strategy for more details) minimising the amount of waste we produce and reducing the volume of waste sent to landfill. The iversity is aware of the importance of the Zero Waste Hierarchy and the need to
  - x Refuse/Rethink/Recsign
  - x Reduceand Reuse
  - x Preparation forReuse
  - x Recycling/Compostin@naerobic digestion
  - x Material and chemical recovery
  - x Residuals management
- 9. Waste management procedures are improving yearyear and we aim toeducegreenhouse gas(GHG) emissions from waste/recycling peulFTime Equivalent student andstaff by 5% annually from 208-19baseline to 2030by maximising reuse, redistribution, and recycling. Recentinitiatives include:
- Bin the Birremoving all personal bins and creating central recycling/waste to landfill bins
- Winning£15,000Recycling Leagueompetitionin St Johns Halls
- White bags projec with local housing association and two local primary schools
- x Introducing the regular Repair Café Worcesteto campus

Recycling schemes are also in place across the campus for toner and printer cartridges, compute equipment, books, batteries, cardboard, textilespectacles/hearing aidend shoes.

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11	.The table belowshows our latescarbonemissions data and historic data for comparison and the
	detailed breakdown for 2022022and how this was split into recycling and waste to energy, across
	the academic and residential estate.

- 12. The level of construction waste varies each yealependant on capial developmentand refurbishment programmes virtually all construction waste is recycled.
- 13. There are many different waste stream enerated by the operations of the niversity and the following tableshows the volumes of waste roduced by waste category and the residential and normesidential parts of the estaten academic year 20122022.

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- x Concrete measures **to**romote reuse and stimulate industrial symbios**its**urning one industry's byproduct into another industry's raw material
- x Economic incentives for producers to pureener products on the markand support recovery and recycling schemes (), for packaging, batteries, electric and electronic equipment, vehicle)s

### Resources and Training

- 17. Most of thewaste generated by the **Nuiversity** is removed from the campuses under one contract. Smaller contracts are in place for specialist waste streams, confidential waste, WEEE waste, batteries, clinical waste, textiles, and toners. The last two waste streams are given to support severalcharitable enterprises.
- 18. Campus services staff arresponsible for the segregation collection of waste streamon campus and manage the external contracts. They providenternal waste collection service from all areas of the campus. Students are responsible for emptying their own wasteectly into Eurobins, both rubbish and ecycling and food Cleaning staff are responsible for emptying stebins and recycling bins in office and teaching areas.
- 19. The University has kips for cardloard and a (apacity20 m³) permanently on site located in the recycling compound at the rear of Woodbury Buildingtates contractors are topermitted to utilise these facilities, and they are used primarily for surplus furniture which cannot be non-re-useable fixtures and fittings and green waste by the grounds team.
- 20. Staff have undertaken severtahining courses including waste legislation, however further training would be beneficial to keep all staff involved up to date with this complex heavily legislated area

### Waste streams

21. At the University of Worcester, waste is generated from the following activities:

Office/administrative activities

Laboratory teaching, which produces chemical waste

Demolition, construction, and refurbishment of buildings

Grounds maintenance

Maintenance of a transport fleet and parking facilities

Catering services

On-campus residential accommodation

Students' Union shop, social and catering outlets

Much of the waste produced at the University falls into two specific categorieszardous and non-hazardous In addition, there is a significant amount of catering waste

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### Food Wase

22. Food waste is segregated and collected both from the university catering provision and food caddies are provided in student halls and staff kitch The University currently us secompany called ReFood ltd to collect and dispose of found waste acrossour sites. Students and Staffhave small food bin socated in the communal kitchens when full they are tipped into the large 240 litre located outside the student haltend a central Hinesbin store. Bins they are collected weekly by the contractor and incinerated for energive have around 25 x 24 for food waste bins for students and staffive aim to increase the number of bins and cover more sites going forward Most food waste is generated from hospitalify he outsourced catering contract includes rigorous KPI's and training regimes to reduce both plate waste and kitchen waste also train key staff who order food for hospitality events, on how to best gatinged order numbers to minimisted waste from events This includes student naggement and events including Gen Impact Projects

### Catering

23. Thewaste and resources action programme (WRAP) undertook a detailed auasiteand a summary of their findings is shown below. In understanding their findings important to understand the definitions of 'avoidablend' unavoidable food waste These are given below

Avoidable food wastes food that wasat some pointprior to disposal edible \(\epsilon\), a slice of bread, apples meat) and could have been eat\(\epsilon\) from better portioned anaged, stored and/or prepared. Avoidable food waste also includes some food items that may or may not be eaten as a matter of consumer preference uch as bread crusts and jacket potato skins

Unavoidable food wastes food waste that is not has not beeredible under normal circumstance (e.g., meat bone seggshells pineapple skinte bags potato skins from chip production).

### **The Future**

- 24. The future direction for waste management in universities is being shaped by continuing to adhere to practices that prioritize waste reduction, reuse, and recycling over disposal. This can be achieved by following the waste hierarchy model, which sets out the favoriableand leastfavourableoptions for waste management. Ve continue to review new technologies that can improve waste management practices, such as wastenergy systems, smart waste bins, and innovative recycling technique. She Sustainable Procurement Group continuously reviews circular economy model to recommend being dopted to promote a close bop system where waste is minimized, and resources are reused and recyclined introduction of the Repair Café to campus will be monitored and review and evaluate the impact.
- 25. We will continue to use Greempact, and Student Switch Off to engage with staff, students, and other stakeholders to raise awareness about waste management issues and promot sustainable behaviour Go Green Week will continue to a focal point for education and training programs, waste reduction campaigns, and community engagement initiatives.
- 26. We are committed to atta-driven decision makingand the regulamonitoring and evaluation of our waste management practices, it then tify areas for improvement, and set targets for waste reduction and recycling. This will help us achieve improve achieve improve at large a
- 27. There is enormous