Waste Management Plan 2018 – 2020

2019 - 2020 Update

Introduction

The purpose of the Waste Management Plan (WMP) is to support implementation of the University's Sustainability Strategy 2016-2020, in particular addressing the objectives and targets identified. The objectives, targets and supporting KSI may subtlety develop over the strategy period as workstreams advance and mature however they all remain focused on the eight main sustainability opportunities identified for the University, which are as follows;

- Lower Carbon

- Minimal Waste

- Biodiverse Campuses

- Sustainable Travel

- Positive Procurement

- Wellbeing & Health

- Culture & Community

- Knowledge & Skills

This plan sets out SMART objectives and targets for waste management-related actions, tracking progress annually to measure impact and supporting continual improvement under our ISO14001:2015 certified environmental management system.

1. Waste Management at Swansea University

Swansea University is proud of its many achievements in embedding sustainability into University life. We manage our operations on a sustainable basis through a robust Environmental Management System (EMS). Our EMS has Platinum EcoCampus status and is certified to ISO14001:2015, an international environmental management standard. The system helps the University continually improve its environmental performance, its position in the Guardian-published Green League and ensures we meet HEFCW requirements and our legal compliance.

As part of the EMS, waste management is an aspect that is applicable to all Colleges and PSUs (Professional Service Units) across Swansea University. It is an aspect that everyone (staff, students, contractors, tenants and visitors) has an obligation to support, which is reinforced with the partnership in place with Veolia (Swansea University's waste management service provider). The minimum recycling targets are outlined in Table 1 and the 2019-20 objectives and targets linked to the WMP are outlined in Table 2.

Table 1 – Swansea University Annual Waste Management Targets

Year	% Total waste diverted from energy recovery target E.g. Reuse, recycling, anaerobic digestion, composting	%Total Waste Recovered for energy target	%Total waste incinerated with no recovery	% Diversion rate achieved
2018/19	63%	35%	2%	68%
2019/20	70%*	29%	1%	
2020/21	74%	25%	1%	

*Having exceeded our original target of 63% diversion in 2018/19 achieving an overall diversion of 68%, the target for 2019/20 was revised from 66% and increased to 70% at the end of the 2018/19 academic year.

Table 2 – Abridged 2019/20 Objectives & Targets[1]

Objectives		Key	Target	KSI	Plan (further reference)	Responsible Person
Minimal waste						
5. Continually improve waste management practices at the University		**W1**	Increase diverted waste proportion to **70%** by end of 2019/20 in line with the University's WMP	% of waste reused, recycled and recovered pa **Further KSIs included as part of the Waste Management Plan**	Swansea University Waste Management Plan	Fiona Wheatley, (Waste & Recycling Officer) Environmental Officers
		W2	Raise awareness of updated waste management practices at the University in staff, students, contractors, visitors and other stakeholders	Number of adverse events related to waste management pa	Swansea University Waste Management Plan	Fiona Wheatley, (Waste & Recycling Officer)

Supporting the deployment of this WMP plan is the daily implementation of the EMS at University and College/PSU-level. The Sustainability Team, primarily through the Environment Manager and direct reports, coordinates this with the support of staff, students and other stakeholders. Further information on the EMS at Swansea University can be found at https://www.swansea.ac.uk/sustainability/

Further information on the other objectives aligned to the WMP is outlined in the associated plans noted in Table 2. These can be found at https://www.swansea.ac.uk/sustainability/

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[1] See Sustainability Strategy (www.swansea.ac.uk/sustainability) for the full list

2. Waste Hierarchy

The new Waste (England and Wales) Regulations 2011 came into force in March 2011. The regulations implemented the revised Waste Framework Directive (WFD), which puts greater emphasis on the waste hierarchy to ensure that waste is dealt with in the priority order of: prevention; preparing for re-use; recycling; other recovery (for example, energy recovery); disposal. The University must demonstrate that the hierarchy guidance has been taken into consideration when deciding how to minimise and manage waste streams being produced and handles. Though the decisions do not require detailed written justification, the decisions must be reasonable and regularly reviewed.

Waste stream	Current situation	Options for moving up waste hierarchy					Comments
		Eliminate	Minimise	Reuse	Recycling	Energy Recovery / Disposal	
General waste	Disposal (EFW)	Awareness campaigns, quad/duo bins, no personal bins		N/A	Separation of recyclables at source	☐	Improvements possible – further segregation and avoidance
Plastic	Recycle	Awareness campaigns, use of alternative materials e.g. vegware		Prepared where applicable e.g. drums, IBCs	☐		Improvements possible – segregated disposal of biodegradable alternatives, removal of plastics from University Catering provisions
Confidential	Recycle	N/A	N/A	N/A	☐		
Cans / Tins	Recycle	N/A	N/A	N/A	☐		
Cardboard	Recycle	N/A	N/A	N/A	☐		
Clothes / Small Goods / Furniture	Reuse / Recycle	N/A	N/A	☐	☐		Via BHF drop-off banks and charity partners

Material	Action						Notes
Glass	Recycle	N/A	N/A	Where applicable at personal level	☐		
Metal	Recycle	N/A	Order minimum quantity	Where applicable at local level	☐		
Coffee Cups	Disposal	Keep Cup campaign		N/A	N/A	☐	Improvements possible – further segregation and avoidance of use
Plasterboard	Disposal	Use of alternatives at design stage		N/A	☐	☐	
Stationary	Recycling	N/A	Order minimum quantity	N/A	☐		
Used Cooking Oil	Recycling	N/A	Order minimum quantity	N/A	☐		
Ink & Toner Cartridges	Recycling	N/A	Order minimum quantity	N/A	☐		
Batteries	Recycling	Mains-operated equipment where possible	Order minimum quantity	☐	☐		
Fluorescent Tubes	Recycling	N/A	Order minimum quantity	N/A	☐		
WEEE	Recycling	N/A	Purchase only as required	N/A	☐		Improvements possible – working with external asset companies (lab equipment only)
Paint	Disposal	N/A	Purchase only as required	Use old/remnant	N/A	☐	

		N/A		paints in other projects			
Aerosols	Recycling / Disposal		Purchase only as required	Use old/remnant paints in other projects	☐	☐	Improvement possible – raise awareness of empty, non-hazardous aerosols can be recycled
Biological	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
GMO	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
Chemical-contaminated solids	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
(Contaminated) Lab & workshop sharps/glass	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
Anatomical	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
Infectious	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
Cytotoxic & cytostatic medicines	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	
Other medicines	Disposal (EFW)	Research design	Correct waste segregation practice	N/A	N/A	☐	

Offensive	Disposal (EFW)	N/A	Correct waste segregation practice	N/A	N/A	☐
Oil-contaminated solids	Disposal (EFW)	N/A	N/A	N/A	N/A	☐
Waste oil	Recycle / Disposal	N/A	Order minimum quantity	Where applicable at local level	☐	☐
Sanitary	Recycle / Disposal	N/A	N/A	N/A	☐	☐

3. 2019 -20 Waste Workstreams

Objective 5: Continually improve waste management practices at the University

Target W1: Increase diverted waste proportion to 66% by end of 2019/20 in line with the University's WMP

KSI: % of waste reused, recycled and recovered pa

Action number	Action	Campus	Target date	Progress/KSI	Lead contact
5.1	Implement improved waste management practices within Colleges & PSUs	ALL	Ongoing	NEW	EMS Team
5.2	Development & deployment of waste-focused communication plan e.g. recycling posters, newsletters, waste campaigns/ roadshows	ALL	April 2020	Ongoing (1/month minimum)	Fiona Wheatley
5.3	Identify additional charitable organisations for furniture and equipment reuse	ALL	Ongoing	NEW	Fiona Wheatley
5.4	Map waste streams for each College/PSU	ALL	July 2020	Ongoing (1 map/College or PSU)	EMS Team
5.5	Update and deploy service provision arrangements processes for tenants and contractors2	ALL	July 2020	NEW	EMS Team
5.6	Initiate a trial with an asset resale company(s) and, if successful, develop proposal and arrangements for larger-scale deployment	ALL	January 20202	NEW	EMS Team

| 5.7 | Target single use plastics on campus, focusing on alternatives, and rising awareness | ALL | July 2020 | NEW | Fiona Wheatley / Rhia Cullen |
| 5.8 | Increase volumes of single use coffee cup captured for recycling | ALL | January 2020 | NEW | Fiona Wheatley / Rhia Cullen |

Objective 5: Continually improve waste management practices at the University

Target CC4: Raise awareness of updated waste management practices at the University in staff, students, contractors, visitors and other stakeholders

KSI: Number of adverse events related to waste management pa

Action number	Action	Campus	Target date	Progress/KSI	Lead contact
5.9	Review and deployment of adverse events process/targeted-campaign to raise awareness and recording rates[2]	ALL	July 2020	NEW	EMS Team
5.10	Reinstate Waste & Recycling Working Group	ALL	January 2020	NEW	Fiona Wheatley
5.11	Tracking of contractor waste management plans and targeted improvement workstreams[3]	ALL	July 2020	NEW	EMS Team

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[2] In partnership with other Corporate Responsibility Teams

[3] Direct link to Objective 4 "*Implement sustainable design, construction and management practices in University new builds, renovations and refurbishments*"

5.12	Development & deployment of waste-focused communication plan e.g. recycling posters, newsletters, waste campaigns/ roadshows	ALL	April 2020	NEW	Fiona Wheatley
5.13	Develop waste focused inductions for high risk area	ALL	April 2020	NEW	EMS Team
5.14	Participate in local waste and recycling awareness campaign to raise awareness of the University waste and recycling systems	ALL	February 2020	NEW	Fiona Wheatley

4. Action Plan Monitoring & Review

The WMP is owned and co-ordinated by the Sustainability Team, specifically through the Environment Manager and Waste & Recycling Officer. In line with the wider review of the Sustainability Strategy, this plan is reviewed and updated at the end of the academic year. The findings are used to develop the following academic year's targets and to ensure the continued effectiveness and applicability of engagement methods and workstreams.

Throughout the academic year the progress of the actions outlined within this plan are reviewed regularly, including through the EMS & SWell Group bimonthly meetings. On an annual basis, the progress against the objectives and targets outlined in Section 1 of the Plan are reported to the Corporate Responsibility Committee via the Management Review[4]. The results are subsequently published in the updated revision of this plan.

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[4] The Management Review is encompasses the annual review of the University's environmental management system