

Annex i: Swansea University: Environmental Performance for 2020-2021

Objectives	EMS key	Target	Key Sustainability Indicator (KSI)	Management Review Update
THEME 1: THE CLIMATE EMERGENCY				
1. Reduce carbon emissions from all sources whilst ensuring the University's core activities continue	CE1	Achieve an overall 5% annual reduction in scope 1 and 2 emissions to achieve a reduction of 100% by 2035 (70% by 2030) from 2015/16	<ul style="list-style-type: none"> Carbon emissions (tCO₂e) from the University estate pa (Scope 1 and 2) Carbon emissions (tCO₂e) per m² GIA pa 	OFF TARGET <ul style="list-style-type: none"> Absolute emissions for 2020/21: 13,237 tCO₂e (23.8% reduction on the 2015/16 CMP baseline, 2.82% increase on 2019/20 emissions: 12,863 tCO₂e) Singleton/HSV = 9,416 tCO₂e compared to the 2019/20 figure of 8,826t (6.26% increase) (31.0% reduction from the 15/16 CMP baseline) Bay Campus = 3,821 tCO₂e compared to the 2019/20 figure of 4,037t (5.35% decrease) (1.5% reduction from the 15/16 CMP baseline) Carbon emissions - 0.053 tCO₂e/per m² GIA pa compared to 0.050tCO₂e/per m² GIA pa in 2019/20. <p><i>The carbon emission results do not include transport (5 tonnes emitted from diesel vehicles) or Refrigerant gases.</i></p>
	CE2	Achieve an overall 2.5% annual reduction in scope 3 emissions to achieve a reduction of 50% by 2035 (35% by 2030) from 2015/16	<ul style="list-style-type: none"> Carbon emissions (tCO₂e) from University operations pa (Scope 3) 	ON TARGET <ul style="list-style-type: none"> Scope 3 emissions for 2020/21: 28,163 tCO₂e (30% reduction on the 2015/16 baseline, 10% decrease on 2019/20 emissions: 31,137) Procurement/Supply Chain emissions for 2020/21: 24,352 tCO₂e, reduced by 7% and accounted for >85% of emissions Business travel emissions: significant reductions due to COVID19.
	CE3	Develop the Path to Zero concept to achieve a year on year reduction in emissions in line with the above	<ul style="list-style-type: none"> Coverage of Path to Zero interventions (Number of Faculties/PSUs) undertaken 	NOT ACHIEVED <ul style="list-style-type: none"> TBD from Path To Zero report.
2. Reduce dependence on fossil fuel energy; moving towards more renewable or lower carbon energy sources	CE4	Increase KWh of electricity generated by onsite renewable sources year on year	<ul style="list-style-type: none"> KWh of electricity generated by renewable means pa 	NOT ACHIEVED <ul style="list-style-type: none"> 359,756KWh generated in 2020/21 down from 376,951KWh in 2019/20 (-5% reduction on previous year, caused by the Singleton Library Solar PV system not generating due to inverter fault, which has now been rectified). (2020/21 Solar PV generation includes 48,686KWh at Singleton Campus and 311,070KWh at the Bay Campus).
3. Reduce water use on the University estate	CE5	Maintain water consumption levels to less than 0.9m ³ /m ² in 2020/21	<ul style="list-style-type: none"> Water consumption per m² GIA pa 	ACHIEVED <ul style="list-style-type: none"> 0.64m³/m² in 2020/21 compared with 0.85m³/m² in 2019/20 (24.7% decrease). 2015/16 (Base year) Campus water consumption was 1.13m³/m² (43.36% reduction since then).
4. Implement sustainable design, construction and management practices in	CE6	Incorporate sustainability innovation and energy-efficiency into all new builds, renovations and refurbishments	<ul style="list-style-type: none"> % of new build projects achieving at least BREEAM Excellent pa 	NOT APPLICABLE <ul style="list-style-type: none"> No new build projects completed in 2020/21.

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University new builds, renovations, refurbishments and existing estate	CE7	Improve the average DEC score on our campuses year on year	<ul style="list-style-type: none"> Average Display Energy Certificate score pa 	ACHIEVED <ul style="list-style-type: none"> Average DEC score for Bay Campus in 2021 was 74 (C), compared to 92 (D) in 2020. Average DEC score for Singleton Campus in 2021 was 74 (C), compared to 77 (D) in 2020.
	CE8	Include the impacts of unavoidable climate change and associated weather events as a key risk in the EMS at a corporate, local and (new build) project level	<ul style="list-style-type: none"> Number of adaptation risks and opportunities identified pa 	NOT ACHIEVED To be measured through EMS aspects register moving forward.
THEME 2: OUR NATURAL ENVIRONMENT				
5. Encourage and support biodiversity and conservation on all University campuses	NE1	Review the 2020 – 2024 Biodiversity Action Plan, including specific targets, actions and KSIs	<ul style="list-style-type: none"> Swansea University Biodiversity Action Plan 2020-2024 reviewed and updated annually Number of new biodiversity projects/initiatives introduced pa 	ACHIEVED, ONGOING <ul style="list-style-type: none"> 2021 Biodiversity Action Plan has been completed, with updated actions including management of the Estate, collaboration with external partners, promotion of our natural environment, survey, monitoring, and data management, and administration and reporting. New objectives within the Action plan include: <ul style="list-style-type: none"> To create new areas of valuable wildlife habitat where appropriate. E.g. Choose native and/or nectar-rich species (eg RHS "perfect for pollinators" label) as the default option in planting schemes To ensure that conservation of campus habitats and species complements wider efforts to create resilient ecosystems - in the city, region and beyond. E.g. Represent the University on the Swansea and NPT Nature Partnerships
THEME 3: OUR WORKING ENVIRONMENT				
6. Embed more ethical and sustainable procurement practices throughout the University	WE1	Ensure that the University's sustainable procurement programme moves towards ISO20400 standard by the end of 2022	<ul style="list-style-type: none"> Hold internal sustainable procurement standard ISO20400 audits across central and local procurement functions by end of 2022 – progress pa 	ONGOING, ON TARGET <ul style="list-style-type: none"> Work on ISO20400 alignment progressing through follow work: A Sustainable procurement audit completed by the Swansea University Internal audit department in 2021. With associated actions being tracked. The University signed up to Warp It to reduce the need for the procurement of new furniture and reduce furniture waste. Sustainability imbedded in procurement tendering and contract processes for major contracts including: Hard and Soft FM, Catering, Labortory Consumables, Office Supplies and Travel. WRAP Cymru benchmarking sustainable procurement audit completed on sustainable procurement with associated action plan in effect.
	WE2	University catering will offer services that meet high sustainability and ethical standards	<ul style="list-style-type: none"> % of catering outlets with Soil Association Food for Life served here gold or equivalent award 	ONGOING, LIMITED PROGRESS <i>This KSI has changed since the 2019/20 review, where catering outlets were working towards the Soil Association Bronze award.</i>

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			and compliant with Corporate Health Standard (CHS) gold award pa	<ul style="list-style-type: none"> Chartwells (New catering contractor appointed 2021/22) is progressing towards Sustainable Restaurant Association star rating. New contract in place for less than one year so progress is still ongoing, ambition is to get at least one outlet certified by the end of 2022. Delivery of a sustainable catering management system (such as SRA) was listed as a requirement in the tender for a new 2021/22 catering company. Contract includes sustainability action plan and monthly progress meetings with university sustainability team. The plan includes an action on CHS award.
	WE3	The University will fully review its Ethical Investment Policy by 2022, and look to extend current investment exclusions further than tobacco and fossil fuels, reviewing arms manufacturing and other sectors	<ul style="list-style-type: none"> EIP fully reviewed and associated SLT report produced – progress pa 	<p>ACHIEVED</p> <ul style="list-style-type: none"> EIP review in June 2021 <ul style="list-style-type: none"> Section 3.3 added to reflect approach since 2019 on full fossil fuel divestment Section 5.2 added to reflect student representation Updated to reflect change in terminology re Strategic Plan/Vision and Purpose.
7. Continually improve waste management practices at the University	WE4	Achieve a 70% diversion of waste from Energy from Waste (EFW) and landfill by 2025 in line with Welsh Government targets	<ul style="list-style-type: none"> % of waste diverted pa 	<p>NOT ACHIEVED, ONGOING</p> <ul style="list-style-type: none"> 59% of waste diverted from Energy Recovery and Landfill. This has reduced from 64% in 2020.
	WE5	Continue to reduce the waste mass generated per full time equivalent (FTE) staff and student per year	<ul style="list-style-type: none"> % of waste reused, recycled and recovered pa 	<p>ONGOING, LIMITED PROGRESS</p> <ul style="list-style-type: none"> 405 tonnes of waste reused, recycled, anaerobically digested, and composted. 59% of total waste produced. This has reduced from 722 tonnes in 2020.
	WE6	Raise awareness of updated waste management practices at the University in staff, students, contractors, visitors and other stakeholders	<ul style="list-style-type: none"> Number of adverse events related to waste management pa 	<p>ACHIEVED</p> <ul style="list-style-type: none"> 6 Waste specific Adverse Event reports submitted during 2020/21 Number of campaigns to raise awareness of recycling practices: <ul style="list-style-type: none"> Global Recycling Day (press release, social media campaign, Fulton house) New Swell activities relating to waste management (food waste action week) Introduction of Warp It platform to increase furniture reuse.
8. To reduce the impact of the University's environmental emissions, discharges and other outputs	WE7	Achieve full legal compliance on environmental emissions and discharges	<ul style="list-style-type: none"> Number of legal non-compliances pa Number of new and updated wastewater consents in place 	<ul style="list-style-type: none"> No recorded non-compliances in legal register relating to emissions and discharges, some orange indicating not fully compliant. 1 updated wastewater consent Welsh National Pool Swansea.
	WE8	Continue the roll-out of the LEAF Sustainable Labs programme to cover an increasing number of University laboratories	<ul style="list-style-type: none"> Number of labs awarded LEAF status (bronze/silver/gold) pa 	<p>ONGOING, ON TARGET</p> <ul style="list-style-type: none"> 30 labs enrolled in LEAF as of March 2022. 21 assessment submissions compared to 17 in 2020- 1 Gold, 5 silver, 15 bronze. 16 awards presented to labs in this period- 4 silver, 12 bronze. 5 labs awaiting confirmation of award- due to either not meeting criteria and feedback given, or admin delays following team restructuring and handover. <p><i>New KSI for 2020/21 specifically for LEAF and therefore no detailed comparisons for previous years.</i></p>

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THEME 4: OUR TRAVEL				
9. Minimise the negative environmental impact of University related travel and transport	OT1	Maintain gold level at our next Cycle Friendly Employer audit due in 2022 by continued engagement, communication and introduction of additional measures, including improved infrastructure and raising the level of Cycle to Work Scheme limit to enable more staff to acquire EV bikes for their commute	<ul style="list-style-type: none"> % increase in commuter cyclists pa % increase in Cycle to Work sign ups pa 	<p>ONGOING, LIMITED PROGRESS</p> <ul style="list-style-type: none"> Due to homeworking due to COVID no Staff or Student Surveys have been carried out to measure the numbers and percentages of commuter cyclists. Staff and Student travel survey has now been sent out (May-22) to record commuter cyclist data. Promoting Cycle friendly accreditation status, Staff Commuter Travel Club, Cycle to Work limit raised to £3k and active travel mapping ongoing. <p><i>Comparison data for this KSI is unavailable due to COVID impact in 2019/20 resulting in no travel survey.</i></p>
	OT2	Promote the travel hierarchy and strongly encourage staff to follow it, through the newly procured travel booking services	<ul style="list-style-type: none"> Number of OFIs related to travel hierarchy in internal EMS audits 	<p>ACHIEVED</p> <ul style="list-style-type: none"> No travel related OFIs in 2020-21 internal audits or 2022 internal audits thus far. Travel could be included indirectly in OFIs such as 'Communication of procedures' and 'updating of A&I'; within which travel would fall. <ul style="list-style-type: none"> The aspect of travel would differ between Faculties/departments and therefore may not have been identified in the audits carried out in 2021.
CROSS CUTTING ISSUES and GOALS				
Governance, Management, Decision-Making				
10. To support ongoing continuous improvement in the University's management of environmental impacts, aspects, opportunities and risks	GMD1	To work with faculty and PSU senior management as well as key area representatives to ensure that sustainability governance is embedded within their working systems alongside H&S and Resilience, establishing their full environmental impacts and developing associated sustainability action plans	<ul style="list-style-type: none"> Proportion of Faculties/PSUs with active Sustainable Action Plans (SAPs) 	<p>ONGOING, ON TARGET</p> <ul style="list-style-type: none"> A new format of SAP was created in 2021 to reflect the changes in structure (faculty mergers and PSU changes) and workshops are now planned to work through A&I and we will develop SAPs for each department alongside this for a more coherent approach. <ul style="list-style-type: none"> Piloted with one faculty, and Aspects and Impacts training workshops planned with other faculties and departments that will embed SAPs.
	GMD2	Continue to map all University activities to the UN SDGs for reporting purposes via the EMS, and allow the development and delivery of cross-university actions	<ul style="list-style-type: none"> Proportion of Faculties/PSUs with SDG maps in their Sustainable Action Plans (SAPs) 	<p>ONGOING, ON TARGET</p> <ul style="list-style-type: none"> 2021/22 The University took part in the Times Higher Education Impact ranking for the first year. All University activities have been mapped against SDGs as part of this project, which includes teaching and research, estates, PSUs. <ul style="list-style-type: none"> An annual report is generated as a result of this and for 2021/22, Swansea was ranked 101st-200th. SDGs 6/11 in the top 50 institutions in the world, and SDGs 10/11 performing above the upper quartile. For SDGs 8, 9, 11, 13, and 16, Swansea University was ranked the highest in Wales.
	GMD3	To continue to embed and improve the Environmental Management System across the University	<ul style="list-style-type: none"> Addition of new buildings/sites pa into EMS scope 	<p>ACHIEVED, ONGOING</p> <ul style="list-style-type: none"> New Centre for Integrative Semiconductor Materials (CISM) Bay campus and will be operational in September 2022.

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			<ul style="list-style-type: none"> Number of attendees at Network meetings 	<p>Aspects of operations in the EMS scope will include discharge to drain, waste disposal (hazardous, chemical), spill response, emissions to air, energy, and water.</p> <ul style="list-style-type: none"> January 2021 CR committee meeting in FoMH&LS included 14 relevant attendees including laboratory technicians, head of operations, and representatives from H&S. May 2021 CR committee meeting in FoS&E included 22 attendees from across the faculty and H&S and Sustainability representation. <p><i>Number of attendees in network meetings is a new KSI for 2020/21 and therefore has no comparison data to earlier years.</i></p>
Learning, Capacity, Skills				
11. To support student employability, develop skills and knowledge via the sustainability programme of work	LCS1	Reconfigured Student Sustainability Award launched in 2020/21	<ul style="list-style-type: none"> Number of students signed up to the Sustainability Award pa 	<p>ACHIEVED, ONGOING</p> <ul style="list-style-type: none"> 641 students signed up to Sustainability Award email group in 2020/21 (this is the total number of current students signed up i.e. not 641 new registrations). 600 were signed up to the mailing list in the 2019/20 review showing an increase of 41 students over the year. The sustainability award has been impacted by COVID, as aspects of the award such as audits and workshops have been unable to take place in-person. The platform used for the Award was also shut down, but this has led to a review of the content and structure of the Award and a move to the Canvas platform which students are familiar with. This is currently being populated with new material and a temporary submission solution is in place for those who have completed their awards.
	LCS2	Develop a carbon literacy toolkit, in-line with Path to Zero, to enable staff and students to reduce their impact from their own operations, their research, and the spaces they use on campus	<ul style="list-style-type: none"> Carbon Literacy Tool in development by end of 2020/21, to be launched in 2021/22 	<p>ONGOING, ON TARGET</p> <ul style="list-style-type: none"> Climate Emergency Education Group formed with academic representation from all Faculties and a number of PSUs. CL Training attended by Sustainability Manager Climate Emergency Education Group supported to complete EAUC Carbon Literacy training with plan to develop Swansea university specific training in due course and trials planned within faculties thereafter. Considering working towards becoming a "Carbon Literate organisation (CLO) through the CL Project.
Communication, Engagement, Involvement				
12. Induct, train and support staff, students and wider stakeholders to conduct their activities in an environmentally responsible manner	CEI1	Student and Staff engagement programme(s) for carbon reduction and wellbeing will evolve year on year - examples include the SWell engagement programme (or future adaptations of this programme), The Student Energy Project (TSEP) and Switch Off	<ul style="list-style-type: none"> Number of discreet corporate sustainability initiatives pa Numbers of staff involved in SWell and/or other initiatives pa 	<p>ACHIEVED</p> <ul style="list-style-type: none"> Sustainability events from January 2021- December 2021 include in person and virtual. Monthly Beach cleans at Bay campus, seed swaps, volunteer days, nest box and hedgehog box building, Apple Day 2021. Biodiversity events are listed on our Eventbrite page which has >100 followers. There have also been campaigns for nationwide initiatives such as Fairtrade week (social media campaign and guided

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				<p>bike ride), Global Recycling Day (Fulton house lit up green and press release), MCS Great British Beach Clean, and internal initiatives such as the wellbeing Knitting group (occurs fortnightly) and Cycling roadshows and forums.</p> <ul style="list-style-type: none"> ○ These events and initiatives all feed into the key themes from our sustainability and climate emergency Strategy (Working environment, Natural Environment, Climate Emergency, and Our travel). ● Swell was relaunched in November 2021 to include students as well as staff, and as a result has seen increased sign-ups since the 2019/20 review. <ul style="list-style-type: none"> ○ Since November 2021 (relaunch) there have been 48 staff sign-ups and 231 student sign-ups (279 sign-ups in total). ○ Staff have completed a total of 27,526 actions and students have completed 4,828 actions (total of 32,354 actions) (as of May-22). ● 190 students are signed up to the NUS, SOS, Student Switch off campaign through which they receive information on energy and water savings. 152 students have taken part in some form of activity (quiz, competitions, training etc.).
	CEI2	Deliver the project Seventeen in schools and colleges across Swansea to raise awareness of the UNSDGs and the role that the University plays in their achievement	<ul style="list-style-type: none"> ● Number of participants in Seventeen project 	<p>ONGOING, COVID IMPACT</p> <ul style="list-style-type: none"> ● Project has been completed and publicised via social media, website, Students Union. Deadline for participant submissions has been extended. ● Schools were hesitant to participate with a combination of site visits limited due to COVID. Potential new scheme in May 2022 with creative writing students visiting school to increase participation. <p><i>This is a new project for 2021 and therefore a new KSI with no historical data to compare to.</i></p>
Wellbeing and Human Health				
13. To improve University staff health and wellbeing	WH1	Achieve gold level of the Welsh Corporate Health Standard by end of 2020/21	<ul style="list-style-type: none"> ● Level of CHS achieved by July 2021 	<p>ONGOING, COVID IMPACT</p> <ul style="list-style-type: none"> ● The University participated in a mock CHS Gold assessment prior to COVID impact (Oct-20). ● Gold full assessment is currently still on hold due to COVID delay. ● In 2021, the University was reassessed and certified CHS Silver. ● The University is also supporting a review of new CHS assessment methodology with Public Health Wales.