

## Environmental and Sustainability Policy Metrics and Targets

This document collates the targets and baselines for measuring progress in implementation of the [Environmental and Sustainability Policy](#).

Where a specific target date is established, the owner is indicated, otherwise a baseline and desired direction of movement is stated, and year-on-year continual improvement is expected.

Policy Item	Metric Number	Metric	Desired direction	Baseline Year	Baseline value	Target	Owner
<b>1. Resource Management</b>							
1.1. Recognise waste as a valuable resource in line with the principles of the Circular Economy and develop efficient and effective waste management procedures to implement the waste hierarchy: prevent, reduce, reuse, recycle and responsibly dispose. We will prevent our waste from reaching landfill at all feasible opportunities.	1.1.1	Reduction in operational waste generated on campus (tonnes) Includes General waste, food waste, dry mixed recycling (DMR), building materials waste from maintenance activities, metals, Waste Electronic and Electrical (WEEE) Excludes major construction	Decrease	2008/09	1,409 tonnes		
	1.1.2	Proportion of waste reused/recovered/recycled (%)	Increase	2008/09	57.3%		
	1.1.3	Proportion of waste used to create energy (%)	Report	2008/09	0.0%		
	1.1.4	Hazardous wastes managed effectively and safely. Total volumes and types e.g., Asbestos	Narrative Report				
1.2. Implement practices and policies to reduce the environmental impact of the goods and services we procure to achieve our Scope 3 carbon neutral target[s].	1.2	Total Scope 3 emissions (tonnes CO <sub>2</sub> e)	Decrease	2019/20	17,821 tonnes CO <sub>2</sub> e	Net-Zero by 2045	Prof. Tim Thornton, Deputy Vice-Chancellor
1.3. Continually improve our energy and water efficiency in our direct operations, reducing our Scope 1&2 carbon emissions to	1.3	Total Scope 1&2 emissions (tonnes CO <sub>2</sub> e)	Decrease	2005/06	7,614 tonnes CO <sub>2</sub> e	Net-Zero by 2030	Prof. Tim Thornton, Deputy Vice-Chancellor

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achieve our carbon neutral target[s].	1.3.1	Total Scope 1&2 emissions (tonnes CO <sub>2</sub> e) in line with Science Based Targets Initiative 1.5-degree scenario	Decrease	2019/20	5,257 tonnes CO <sub>2</sub> e	3,050 tonnes CO <sub>2</sub> e	Prof. Tim Thornton, Deputy Vice-Chancellor
	1.3.1.1	Total Scope 1 emissions (tonnes CO <sub>2</sub> e)	Decrease	2005/06	2,427 tonnes CO <sub>2</sub> e	Component of metric 1.3.1	
	1.3.1.2	Total use of Natural Gas (kWh)	Decrease	2005/06	13,118,334 kWh		
	1.3.1.3	Reduction in gas use per gross internal area of campus space (kWh/m <sup>2</sup> GIA)	Decrease	2005/06	127.0 kWh / m <sup>2</sup>		
	1.3.1.4	Use of other fuels combusted in campus operations (excluding use in vehicles) (kWh)	Decrease	2005/06	0 kWh		
	1.3.2.1	Total Scope 2 emissions (tonnes CO <sub>2</sub> e)	Decrease	2005/06	5,187 tonnes CO <sub>2</sub> e	Component of metric 1.3.1	
	1.3.2.2	Total use of electricity (kWh)	Decrease	2005/06	10,957,233 kWh		
	1.3.2.3	Electricity use per gross internal area of campus space (kWh/m <sup>2</sup> GIA) Includes electricity generated on campus	Decrease	2005/06	106.0 kWh / m <sup>2</sup>		
	1.3.2.4	Total use of electricity, including energy supplied from the national grid, and energy generated on campus (kWh)	Decrease	2005/06	24,075,567 kWh		
	1.3.2.5	Total energy use per gross internal area of campus space (kWh/m <sup>2</sup> GIA)	Decrease	2005/06	233.0 kWh / m <sup>2</sup>		
	1.4. Reduce our reliance on fossil fuels to heat, cool and operate our campus operations, reducing our carbon emissions and improving our air quality emissions.	(1.3.1.2)	<i>Total use of Natural Gas (kWh)</i>	<i>Decrease</i>	2005/06		
(1.3.1.4)		<i>Use of other fuels combusted in campus operations (excluding use in vehicles) (kWh)</i>	<i>Decrease</i>	2005/06			

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1.5. Implement practices to reduce our demand on the national electricity grid, improving efficiency, generating low carbon energy on campus, and encouraging the increase of renewable energy sources generating into the grid through our procurement contracts.	1.5.1	Total Electricity generated on campus (kWh)	Report	2012/13	3,473 kWh		
	1.5.1.1	Electricity generated by Solar Photovoltaics (kWh)	Increase	2012/13	3,473 kWh		
	1.5.1.2	Electricity generated through combined heat and power units [CHP] (kWh)	Report	2016/17	5,310 kWh		
	1.5.2	Total energy procured through a renewable energy Power Purchase Agreement [PPA] (kWh)	Report	N/A	No agreement in place at present		
1.6. Commit to the prevention of pollution by ensuring compliance with all relevant legislation regarding emissions and discharges.	1.6	Report in the event of a legal breach	Narrative Report				
1.7. Reduce the use of harmful chemicals in our activities where a practical alternative methodology is available.	1.7.1	Report on methodologies implemented to reduce use of chemicals. - Estates & Facilities Cleaning services - School technical teams	Narrative Report				
	1.7.2	Financial spend on chemicals for cleaning per gross internal area of campus space (£/m <sup>2</sup> GIA)	Decrease				
1.8. Ethically source and conscientiously purchase food and materials related to its provision on campus. We will certify to welfare and sourcing standards, and actively encourage local food production where possible.	1.8.1	Please see the <a href="#">Sustainable Food Policy</a> for relevant metrics					
<b>2. Sustainable Buildings</b>							
2.1. Close the performance gap between design and	2.1	Report on methodologies undertaken for each major project	Narrative Report			Component of metric 1.2	

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operation to ensure new and refurbished buildings have a lower carbon footprint throughout their operating lives.							
2.2. Design our new buildings and refurbish our existing campus buildings to enhance the wellbeing of its users. This includes accounting for access to natural light, thermal comfort, biophilic design principles, improving air quality, access to nature both internally and externally, and sourcing of sustainable construction materials and textiles.	2.2	Report on methodologies undertaken for each major project				Narrative Report	
2.3. Efficiently and intelligently operate our buildings utilising the space(s) we have available through effective space planning and allocation and timetabling of teaching and events. We will move towards the principle of operating based upon need rather than assumption.	2.3	Implementation will lead to a reduction in Scope 1&2 Emissions (1.3.1)				Narrative Report	Component of metric 1.3.1
2.4. Measure the embodied carbon emissions resulting from major construction projects and put steps in place to minimise and mitigate their impact.	2.4	CO <sub>2</sub> e / m <sup>2</sup> gross internal area of construction (including external landscaping)				Narrative Report	
2.5. Implement measurable and reportable sustainability standards and benchmarks in the design and construction of new	2.5	Publicly issue the standards to be achieved for each major construction project				Narrative Report	

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buildings and major refurbishments. Including, but not limited to BREEAM and the WELL Building Standard. The minimum standards to achieve will be agreed by University Council in approving the undertaking of a project.							
2.6. Design in adaptability and resilience to account for the impacts of the changing climate.	2.6	Report on methodologies undertaken for each major project			Narrative Report		
<b>3. Engagement</b>							
3.1. Annually report on our progress in meeting our agreed targets, key performance indicators and implementation of the policy statements in this framework.	3.1	Annually report on activities			Narrative Report		
3.2. Enable research, foster innovation, and where practical implement new technologies, utilising the campus and our operations as a 'living laboratory' for advancement of sustainable development.	3.2	Annually report on activities			Narrative Report		
3.3. Build and maintain partnerships with local, national, and international organisations to reciprocally reduce our environmental impacts and participate in activities to enhance sustainable development and social responsibility.	3.3	Annually report on activities			Narrative Report		

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3.4. Use our global reach to support achieving the targets of the UN Sustainable Development Goals through our research, teaching and operational activities.	3.4.1	Submission to the Times Higher Impact Rankings					
	3.4.2	Annually report on activities					
3.5. Foster a culture of change in the university to improve our environmental performance; supporting Environmental and Sustainability champions to implement improvements in working practices and practical actions throughout our schools, support services and affiliated organisations.	3.5	Annually report on activities					
3.6. Engage and collaborate with the Huddersfield Students Union executive board, their affiliated student societies, and the wider student body in their actions to increase sustainable development and improve environmental performance at the University of Huddersfield.	3.6	Annually report on activities					
<b>4. Biodiversity</b>							
4.1. Respect wildlife that resides on our campus and actively work to create, maintain, and enhance habitats with a rich variety of native plant species.	4.1	Report on methodologies undertaken					

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4.2. Create cohesive links to habitats outside the estate to create biodiverse Green Corridors.	4.2	Report on methodologies undertaken			Narrative Report		
4.3. Undertake landscaping works on campus that provide a biodiversity net benefit whilst also creating a connection to nature for users to enhance their wellbeing.	4.3	Report on methodologies undertaken			Narrative Report		
4.4. Ensure that activities to offset the Universities carbon emissions which include habitat restoration or development, will result in a measurable net benefit to biodiversity, the environment, and the community local to the scheme being undertaken.	4.4	Report on methodologies undertaken			Narrative Report		
<b>5. Travel</b>							
5.1. Enable students, staff, and visitors to campus to utilise active or sustainable travel methods in their journey. This includes enabling the adoption of Electric Vehicles through campus infrastructure and collaboration with partner organisation e.g., Kirklees Council	5.1	Report on methodologies undertaken			Narrative Report		
5.2. Reduce the emissions from operating the universities fleet of owned and leased vehicles and increase the adoption of Electric Vehicles in campus operations.	5.2.1	Total fuel used in University owned (or leased) vehicles (litres). Excludes hire cars, or business travel	Decrease	2015/16	9,853.9 litres		
	5.2.2	Report on methodologies undertaken			Narrative Report		

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5.3. Encourage the use of active and sustainable travel methods for journeys undertaken by staff and students in our operational activities, utilising technological solutions and avoiding air travel where possible.	5.3.1	Carbon emissions from business travel (tonnes CO <sub>2</sub> e) [a component of Scope 3 emissions]	Decrease	2019/20	376 tonnes CO <sub>2</sub> e	Net-Zero by 2045	
	5.3.2	% Staff commuting by active travel methods (walking, running, cycling)	Increase	2008/09	10%	20% by 2022/23	Travel Plan 2017-23
	5.3.3	% Students commuting by active travel methods (walking, running, cycling)	Increase	2017/18	40%		
	5.3.4	% Staff commuting by public transport	Increase	2008/09	21%	30% by 2022/23	Travel Plan 2017-23
	5.3.5	% Students commuting by public transport	Increase	2017/18	41%		
	5.3.6	Number of cycle parking spaces	Increase	2015/16	90		