

Positive footprint: phase 2

UWE Bristol Sustainability Plan 2013 – 2020

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Academic Board on 18 December 2013

Vice-Chancellor's Executive on 13 January 2014

Board of Governors Strategic Planning and Performance Committee on 4 February 2014

Foreword

Foreword by the Chair of the Board of Governors, Vice-Chancellor and the President of the UWE Bristol Students' Union

UWE Bristol is committed to addressing the issues arising from the imperative for sustainable development. Simply put, this means playing our part in ensuring we support the global sustainability agenda for a strong, healthy and just society living within environmental limits. We have developed policies, plans and strategy to support sustainable development and implemented these into the business of the University both in our educational role and in the management of our estate. This is overseen by a high level University Sustainability Board and action devolved to Services and Faculties to embed sustainable development into our business decision making. This isn't easy, it's a change management process but we are making progress. We have been addressing this challenge since the early 1990s. Our actions and ambitions were formerly expressed in the UWE Bristol Sustainability Strategy 2007–2012 and these are now superseded by this new Sustainability Plan 2013–2020.

We are committed to ensuring our students - future graduates - are exposed to and can engage with the ideas of sustainable development in their programme of study. In our view it is important that sustainable development is contextualised within the discipline the student is studying. We also provide opportunities for the informal curricula of volunteering and public engagement to embrace the sustainable development agenda. For us education for sustainable development is about the contribution that can be made to sustainable development through learning and teaching. Key to this is the development of skills, knowledge and values that promote behaviour and approaches that support the goal of reconciling human needs with the environmental limits of the planet.

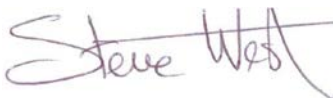
There is much more to do and we are progressively setting ourselves more ambitious targets. We report publicly on progress and you will see a large amount of information and data on our web pages. The University is also committed to sharing its practices and the challenges we face within the sector. We are active in a range of organisation promoting and supporting sustainable development policy and practices and our goal here is to support mainstreaming in the HE sector. We are proud to be a supporter of Bristol European Green Capital 2015 and look forward to sharing findings with fellow cities and exploring opportunities for developing more sustainable development pathways during the Green Capital year.

We are embarking upon a major development of Frenchay Campus and expect to spend about £250 million over the lifetime of this plan. The challenge we are committed to meeting is to ensure that the investment in new facilities and buildings brings long term sustainability gains.

Above all, the purpose of this plan is to ensure that the University of the West of England delivers a student and staff experience within an environment and culture incorporating the principles of sustainable development. All UWE Bristol student and staff members will have the opportunity to live, study and work in a sustainable environment as well as develop and use the skills and understanding required to contribute to global sustainability throughout their careers. Through the actions presented in this new Sustainability Plan we will prepare our students for the sustainable development challenges of the 21st century.



Gillian Camm
Chair of Board of Governors



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Charlie Roper
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Acknowledgments

This plan has been prepared and approved for consideration at Academic Board, Vice-Chancellor's Executive and the Board of Governors by the UWE Bristol Sustainability Board.

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1 Purpose of the UWE Bristol Sustainability Plan

The purpose of the Sustainability Plan is to ensure that the operation of the University and the delivery of the UWE Bristol 2020 Strategy generate a net positive sustainability footprint.

The Sustainability Plan:

- Outlines the University's sustainability aims for the period 2013 – 2020
- Defines the mechanisms by which sustainability is embedded within the University's day to day operation and effective decision making
- Contributes to UWE Bristol's 2020 Strategy ambition by advancing the health and sustainability of our locality and region
- Contributes to UWE Bristol's 2020 Strategy priorities through the delivery of ready and able sustainability literate graduates
- Guides the development of sustainable estate infrastructure.

Our Sustainability vision is that:

UWE Bristol is valued as a leader, innovator and trusted partner for sustainability.

2 Governance

This plan spans the years 2013-2020. Overall responsibility of its objectives sits with the Vice-Chancellor, Chair of the Board of Governors and the President of the Students' Union. It is monitored through the UWE Bristol Sustainability Board, which reports to both the Board of Governors and Academic Board. Leadership of the Sustainability Plan is delegated to the Deputy Vice-Chancellor and through him to the teams that will deliver the aims of the plan.

3 Planning

The UWE Bristol Sustainability Board, Chaired by the Deputy Vice-Chancellor, steers and monitors the implementation of the Sustainability Plan. The annual Sustainability Report is produced by the Sustainability Board. This report is presented to the Vice-Chancellor's Executive Group, Academic Board and the Board of Governors.

An implementation plan exists for each of the thematic areas described in sections 7 – 9 of this Sustainability Plan. These thematic plans detail the actions that will be delivered and contain more detailed interim objectives and targets. Each thematic area has a project group and these groups report quarterly to the Sustainability Board.

Each Faculty and Service, including the Students' Union, has a Sustainability Champions Group. These groups focus on local level behavioural change actions and deliver projects that improve the sustainability of their respective departments.

The University is following the ISO14001 Environmental Management System (EMS). We will use this system to ensure we have systems in place to meet legal requirements. The EMS is audited by an external auditor annually.

4 Why we need a Sustainability Plan

UWE Bristol believes that there is no alternative to sustainable development. Climate change is happening; resources are becoming scarcer, global social inequality is worsening, economic crises are cyclically deeper.

Our students

Students believe their University should be responsible for actively incorporating and promoting sustainable development to prepare them for graduate employment and the challenges of the future. Students believe sustainability skills will be central to their future working lives and that universities should reflect this in course content. Sustainability concerns are significant in students' university choices.

Risk

Unsustainable organisations will find it difficult to compete in the future. Failure to adapt to the challenges presented by sustainable development will result in a financially inefficient organisation out of touch with its customers and partners and unable to compete with its sustainable competitors. UWE Bristol as a modern university must be sustainable.

Values

Sustainability is a strategic priority of UWE Bristol and drives us to develop and utilise innovation to improve how we operate as a business and collaborate and engage with our students, employees, partners and society. As a large and respected employer, service provider and partner within our community we are morally driven to lead by example.

Demand

The importance of social and environmental values and the transparency of reporting are becoming increasingly mainstreamed in society. The preference for strong social and environmental performance is important amongst potential students and employees. A sustainable and healthy University contributes towards staff and student satisfaction helping recruitment and retention.

Adaptation

Rising energy and resource costs resulting from population growth, demographic change, resource scarcity and the global economic crisis drive us to adapt to conditions which will only become more challenging as peak oil and climate change further affect costs and disrupt the availability of resources and business continuity.

Policy

In the UK as well as globally the University sector is taking positive steps to improve its sustainability performance. The sector leading performance has been largely value led; however, there is powerful policy and legislation to continually drive performance improvement. HEFCE have set individual carbon reduction targets for universities and linked capital funding to the achievement of these targets. In 2013, Hefce, the QAA and the HEA have all published policy and guidance that directly influences university actions in this field. In addition, the National Union of Students is increasingly vocal about the opportunities and requirements to adopt more sustainable development pathways.

5 Phase one achievements (2008 – 2012)

Our first Sustainability Strategy was published in 2008; this was phase one of our sustainable development journey. We were one of the early movers in the higher education sector which has put us in a strong position ever since. Our vision for phase one was to establish ourselves as one of the sector leaders for sustainability, and we have achieved this.

In the 2008 People and Planet Green League we were ranked 3rd from 129 institutions and we have maintained a high level of performance over a period when overall sector performance has hugely improved.

In 2009 we were shortlisted in the Times Higher Awards for our Outstanding Contribution to Sustainable Development and in 2010 we won a Green Gown Award for our embedded whole institution approach to sustainability. In 2011 we were shortlisted for a Green Gown Award for the construction of our BREEAM Excellent R2 building.

Our procurement team won the Times Higher award for Outstanding Procurement Team, which recognised how we have embedded sustainable procurement into our purchasing systems. We have been a Fairtrade University since 2006 and we were the first University to establish a monthly farmers' market on campus in 2008.

Over the five years we have increased recycling from 32% to 51% and our total waste has fallen by 13%. Our water consumption has fallen by 8% and paper use by 32%. We have expanded our subsidised bus network to 30 vehicles operating over seven routes with an average annual growth of 28% in passenger numbers and increased our designated car sharing spaces to 354.

Learning and teaching is the core of the University's purpose and we recognise that our journey to sustainability must embrace the educational offering of the institution. Consequently, we have committed ourselves to ensuring our students have the opportunity to engage with the concepts of sustainability in either the formal or informal curricula. Our Education for Sustainable Development (ESD) initiatives were recognised in a top 5 position in the People and Planet Green League ranking for UK universities. By the end of the Sustainability Strategy 2008 -12 we had enabled 71% of all our students to engage with or be exposed to the context of SD in their discipline of study.

UWE Bristol has led the sector in becoming a healthy university, with the implementation of successful initiatives to tackle healthy eating, exercise, stress, alcohol and smoking. Wider corporate social responsibility initiatives at UWE have also become well established. UWE is now a Stonewall Top 100 Employer, recognising our commitment and achievements for equality and diversity. We have developed a Community and Public Engagement Strategy to work with our local community particularly the voluntary sector, regional strategic bodies and the wider public to spread engagement in research and academic activity.

UWE Students' Union achieved the NUS Green Impact Gold Standard in 2011.

We have won several awards for Fairtrade, including best Fairtrade food outlet in the South West of England.

We have won awards for our travel planning, including most effective travel plan measure in the 2011 West of England Travel Plan Awards 2011.

The University has been active in developing and sharing best practice with a range of groups including the West of England Carbon Challenge, Bristol Green Capital, the Princes May Day Network, the Talloires Declaration, the UNEP Climate Neutral Network, the Higher Education Academy, the Quality Assurance Agency, the NUS and the Environment Association of Universities and Colleges.

6 Understanding the Sustainability Plan

This document contains the high level aims, key performance indicators (KPIs) and targets that will be used to measure the University's sustainability performance from 2013 until 2020.

There are many supporting documents to the Sustainability Plan that contain more detailed objectives and progress targets, outlining the specific actions that we will undertake to achieve the high level aims and KPIs described in the Sustainability Plan. For example, there is an Education for Sustainable Development Plan, Healthy University Plan, Waste Plan, Biodiversity Action Plan, Carbon Management Plan, Travel Plan and so on. In each section of the Sustainability Plan a link is given to the supporting documents.

Aims, KPIs, targets and breakthroughs

Aim	There is an overall aim for each thematic area of the plan.
KPIs	These are the metrics that we will use to measure our progress in delivering our aims.
Targets	These are the targets that we have set to be achieved by 2016 (mid-point of the Plan) and by 2020. These targets are specific and have been identified as being challenging but realistic for us to achieve.
Breakthrough Indicator	We are determined not to lose sight of the ultimate long-term reasons for addressing sustainability at UWE Bristol, which can get lost in the writing of plans. We are striving to go beyond continuous improvement and deliver breakthrough change and innovation. For each thematic area of the plan there is an indicator of truly outstanding contribution to sustainability. We call these the Breakthrough Indicators.

7 Enhancing the staff and student experience

7.1 Health and wellbeing

Introduction/purpose	We have already achieved a great deal in creating and ensuring a healthy and sustainable environment for UWE Bristol students, staff and our wider community. We have delivered easier access to health and wellbeing services, increased opportunities to participate in physical activity, increased options for healthier and sustainably sourced food on all campuses. Our Healthy University Plan, along with other supporting plans including the Travel Plan, have established the conditions to enable students and staff to easily participate in healthier lifestyle choices whilst studying and working at UWE Bristol.
Aim	UWE Bristol aims to provide a positive and enjoyable student, staff and visitor experience. It aims to enhance everyone's health and wellbeing by creating and promoting healthier working, learning and social environments.
KPIs	<ul style="list-style-type: none"> • Increased diversity of the mechanisms for communicating health and wellbeing information, initiatives and activities to all UWE Bristol staff and students. • Increased engagement with health and wellbeing communications and participation in events and activities through increased: <ul style="list-style-type: none"> - Students' Union network sign up - Web stats data - Event sign up - Web page views - Evaluation of key initiatives • Implementation of smoke free spaces across the University through: <ul style="list-style-type: none"> - increased numbers of trained smoke free advisors - increased number of clients accessing the smoke free clinics • Increased numbers of external partnerships for health and wellbeing • Reduction in stress-related staff sickness absence.
Targets	One campus to be smoke free by end 2013
2011/ 12 Baseline performance	No smoke free external spaces at UWE Bristol
Breakthrough Indicator	UWE is a smoke free University
Responsibility	Chair of the Healthy University Group
Supporting documents	Healthy University Plan

7.2 Engagement

Introduction/purpose	UWE Bristol recognises that it is vital to nurture staff and students' concern, passion and energy to make a positive difference in the world and to be active agents in our future. Enabling people to do this is central to our approach to sustainability both within the university and the wider local and global community.
Aim	Central to this ethos of active citizenship, the opportunity to engage in sustainability issues is a key part of staff and student experience at the University. We will work to: develop opportunities, further embed good practice, raise awareness and develop the skills of staff and students with the aim of influencing their behaviour. We recognise that for those less actively engaged we will need a range of strategies, in particular ones which challenge routine habits and practices
KPIs	<ul style="list-style-type: none"> • The number of active staff and student supporters and the number of different ways they can get involved • The range and type of collaborations with various groups to drive innovation • The range and number of tailored engagement/habit change programs • The range and number of students/academic co-learning activities • The result of specific drives and challenges eg Student Switch-Off, Energy and Waste challenges

	<ul style="list-style-type: none"> The number of people attending specific events and activities
Targets	90% satisfaction result with opportunities offered for engagement in sustainability issues in Student Satisfaction Survey
2011/ 12 Baseline performance	Not previously monitored
Breakthrough Indicator	Student driven priority setting and reporting for sustainability
Responsibility	Engagement Coordinator
Supporting documents	Sustainability Stakeholder Engagement Plan

8 Education for Sustainable Development

Introduction / Purpose	UWE Bristol strives to be a sustainability literate community. We foster a culture that encourages our students, staff and partners to co-develop the knowledge, skills and values that promote behaviour and approaches that support the goal of reconciling human needs and aspirations with the environmental limits of the planet. UWE aspires to be a leader in the application of sustainability thinking and to exemplify through its own actions an archetype of a sustainable university.
Aims	<ul style="list-style-type: none"> Ensuring a sustainability culture permeates our curriculum, research and the knowledge base of our staff and students Enabling sustainable and healthy behaviour to underpin all that UWE Bristol does
KPIs	<ul style="list-style-type: none"> Number of UWE graduates per year with ESD skills and experience Percentage of UWE UG and PG students exposed to ESD in their degree Students completing new UWE e- learning resource for Sustainable Development Number of research and KE bids in the field of Sustainable Development
Targets	<ul style="list-style-type: none"> 2014/15 80% of students exposed to concepts of ESD 2014/15 10% of students complete the new UWE e- learning resource for Sustainable Development 2014/15 80% of UWE graduates have ESD skills and experience 2020 all students exposed to the concepts of ESD
2011/ 12 Baseline performance	71% of students exposed to concepts of ESD
Breakthrough Indicators	<p>Sustainable development formal and informal learning opportunities available for all students and staff.</p> <p>In the context of their discipline all students will have the opportunity to explore and put into practice sustainable development concepts.</p>
Responsibility	AVC Environment and Sustainability via the KESE Network
Supporting documents	ESD Action Plan

9 Resource Effectiveness

Overarching aim

We will use resources more effectively as we grow and develop to meet the expectations of students and partners. We will create a positive footprint by decoupling the continued development of the University from increasing resource inputs, enabling us to enhance the student experience, educational offer and research innovation whilst improving our sustainability performance.

Our KPIs

By understanding how the many inputs, processes and outputs of the University are interrelated we will manage them more effectively, achieving integrated resource management. The aims and KPIs outlined below are located within thematic areas but are applied systemically across all themes to deliver integrated resource management. Taken together they give a picture of UWE Bristol in 2020.

9.1 Procurement

Introduction/purpose	In 2011/12 UWE Bristol procured £76m of goods and services. By working collaboratively with other public sector partners and factoring into procurement environmental protection, the pursuit of social and corporate objectives as well as economic efficiency we will continue to improve the sustainability of UWE and its wider supply chain, reduce whole life costs and minimise our exposure to supply chain risk.
Aim	To use maximise the opportunity provided by procurement to improve the sustainability of the UWE Bristol supply chain and purchasing decisions.
KPIs	<ul style="list-style-type: none"> • Carbon footprint of the UWE Bristol supply chain • Supplier engagement in collaborative performance improvement • Completion and consideration of lifecycle analysis for all significant procurement decisions (tender threshold) • % by value of local, SME and Fairtrade goods and services • Delivery against our Sustainable Food Policy • CSI Index score of the UWE Bristol supply chain
Targets	By 2020 to have achieved a 30% absolute reduction in the carbon footprint of the UWE Bristol supply chain (excluding construction)
2011/ 12 Baseline performance	2011/12 Supply Chain Carbon Footprint: 67,427 tCO ₂ e
Breakthrough indicator	Customer trust in a transparent sustainable UWE Bristol supply chain
Responsibility	Head of Procurement and respective budget holders
Supporting documents	Sustainable Procurement Strategy

9.2 Carbon Management

Introduction/purpose	<p>The 2008 Climate Change Act commits the UK to a carbon reduction target of 80% by 2050 (1990 base), with an interim target of 34% by 2020 set in the 2009 budget. The Committee on Climate Change has recommended the 2020 target be raised to 42%. Since 2011 HEFCE capital allocations have been linked to scope 1 and 2 carbon reduction, and UWE has been set a target by HEFCE of 22.5% absolute reduction by 2020 (2005 base).</p> <p>South Gloucestershire Council has set renewable energy targets for the equivalent of 7.5% of South Gloucestershire's total energy demand (or 508GWh) to be generated from renewable energy installations located within South Gloucestershire by 2020 in line with the UK Target. This is equal to 23% of electricity and 8% of heat.</p> <p>Our approach to carbon management includes scope 3 emissions (CO₂ emissions from water use, waste management, business and commuter travel and procurement) in</p>
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	<p>addition to scope 1 (emissions from the burning of fuels on site) and scope 2 (emissions from the generation of purchased electricity). This will ensure that carbon is included in the management of all of these key areas, encouraging greater integrated resource management.</p> <p>We also recognise the importance of reporting the absolute carbon emissions of the university, alongside benchmarked figures with respect to key metrics including: floor area, weather adjustments and FTE students. We believe that the absolute values allows us to demonstrate our contributions to the UK's carbon reduction target, whilst continuing to be a growing University; furthermore the benchmarked figure (kWh/m², kWh/FTEstudent) allows us to demonstrate that we are operating efficiently for the building types on the estate.</p> <p>The University is committed to on-site energy generation where possible, to reduce carbon footprint and increase security of supply. A target for on, or near site, generation has been set based on a percentage of total energy consumption.</p>																									
<p>Aim</p>	<p>Continual reduction in the carbon footprint of the University in line with the Carbon Management Plan.</p>																									
<p>Key Performance Indicators</p>	<ul style="list-style-type: none"> Absolute and relative (against FTE student, GIAs and weather adjustments) CO₂ emissions in scope 1, 2 and 3 																									
<p>Targets</p>	<p>The original target of 30% reduction in relative CO₂ emissions between 2001/2 – 2011/12 has been increased and extended to 2020/21. To bring our targets in-line with external requirements a new absolute target has been developed. The following targets have been confirmed for scope 1 and 2 emissions:</p> <ul style="list-style-type: none"> Absolute reduction from 2005/6 – 2020/21: <ul style="list-style-type: none"> 1.5% annual reduction 2016 interim target: 16.5% total reduction equating to 22.5% total reduction by 2020/21 Relative reduction from 2001/2 - 2020/21: <ul style="list-style-type: none"> 2016 interim target: 38% relative reduction 50% relative reduction (based on kg CO₂ per m² and average weather) <p>Scope 3 emissions: target is to have a baseline set for all four areas of scope 3 emissions by 2014 revision of our Carbon Management Plan, which will explore and define how a 10% absolute reduction in scope 3 emissions by 2020 can be achieved.</p> <p>To support South Gloucestershire's renewable targets, the University has set a target of 10%, and 5% of the University's electricity and gas consumption respectively, to be generated from on, or near, site low or zero carbon technologies by 2020.</p>																									
<p>2011/ 12 Baseline Performance</p>	<table border="1" data-bbox="411 1615 1481 1843"> <thead> <tr> <th>Scope 1 and 2</th> <th>Absolute emissions</th> <th>Reduction over 2005 baseline</th> <th>Normalised emissions to 2001 DD</th> <th>Reduction over 2001 baseline</th> </tr> <tr> <td></td> <td>TCO₂/yr</td> <td>%</td> <td>TCO₂/yr</td> <td>%</td> </tr> </thead> <tbody> <tr> <td>2001/2</td> <td>13,226</td> <td></td> <td>13,226</td> <td></td> </tr> <tr> <td>2005/6</td> <td>14,587</td> <td></td> <td>14,318</td> <td>+3%</td> </tr> <tr> <td>2011/12</td> <td>13,926</td> <td>-5%</td> <td>13, 614</td> <td>-31%</td> </tr> </tbody> </table> <p>The table above demonstrates that the original 30% reduction over 2001 baseline has been achieved.</p>	Scope 1 and 2	Absolute emissions	Reduction over 2005 baseline	Normalised emissions to 2001 DD	Reduction over 2001 baseline		TCO ₂ /yr	%	TCO ₂ /yr	%	2001/2	13,226		13,226		2005/6	14,587		14,318	+3%	2011/12	13,926	-5%	13, 614	-31%
Scope 1 and 2	Absolute emissions	Reduction over 2005 baseline	Normalised emissions to 2001 DD	Reduction over 2001 baseline																						
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2011/12	13,926	-5%	13, 614	-31%																						
<p>Breakthrough Indicators</p>	<ul style="list-style-type: none"> Each Faculty and Service operates to a carbon budget On track for a carbon neutral campus by 2040 																									
<p>Responsibility</p>	<p>Energy Manager</p>																									

Supporting documents	Carbon Management Plan
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9.3 Campus development

Introduction/purpose	During the life of the Sustainability Plan the University will progress with the development and delivery of campus master planning. Sustainable campus development is critical to the long term sustainability performance of the University. All of the aims and KPIs in this Plan will support sustainable campus development. Described below are construction and refurbishment specific aims and KPIs.
Aim	Sustainability will be included from the outset in all construction, refurbishment and landscaping projects utilising smart design, innovation and procurement to address all relevant aspects of sustainability described within this Plan and in particular human and social impacts, climate change mitigation and adaptation.
Key Performance Indicators	<ul style="list-style-type: none"> Operational carbon footprint/m² of completed construction and refurbishment projects of value £0.5m+ for 1st year following completion Space utilisation percentage
2020 targets	<ul style="list-style-type: none"> All new buildings and significant refurbishment projects to be assessed against BREEAM standard and costs and benefits of acquiring Excellence status to be explicitly considered Completed projects to exceed by 5% Building Regulations Part L2A targets for carbon emissions New buildings to perform to within 20% of energy efficiency of design prediction by utilising a soft landings champion and an independent commissioning agent All significant landscaping projects to achieve CEEQUAL Very Good pre-assessment rating Space utilisation improvement of 5% by 2020
2011/ 12 Baseline performance	Space utilisation 2011/12: 23%
Breakthrough Indicator	<ul style="list-style-type: none"> By 2020, at least one new building on the Frenchay campus <ul style="list-style-type: none"> To be designed to zero carbon To report on the embodied carbon of construction
Responsibility	Pro Vice-Chancellor: Commercial Director
Supporting documents	Master plan documentation

9.4 Waste, emissions and discharges

Introduction/purpose	Waste, emissions and discharges are a strong indicator of the effectiveness of our use of resources. These externalities need to be tackled to ensure broader environmental, social and economic costs of production and consumption are taken into account.
Aim	To reduce the amount and hazardousness of waste, emissions and discharges.
Key Performance Indicators	<ul style="list-style-type: none"> Absolute and relative/FTE Student solid waste (tonnes) excluding construction Construction waste recovery % Hazardous waste (tonnes) Non CO₂ greenhouse gas emissions associated with scope 1 Hazardousness of discharges to sewer (pH, turbidity etc) Reportable Incidents of pollution of land and water

Targets	<ul style="list-style-type: none"> • 70% Recycling rate (excluding construction) by end 2015/16 academic year • 80% Recycling rate (excluding construction) by end 2019/2020 academic year • 15% reduction in solid waste (excluding construction) by end 2019/20 academic year • 80% Construction waste recovery by end 2019/2020 academic year • Zero reportable environmental incidents
2011/ 12 Baseline Performance	2011/12 recycling rate: 51% 2011/12 total waste: 1,764 tonnes (excluding construction)
Breakthrough Indicator	UWE Bristol to be wholly integrated in a circular economy where discarded materials are kept within the economic cycle in such a way which maximises their value.
Responsibility	Waste Manager
Supporting documents	Waste Plan

9.5 Water

Introduction/purpose	Water shortage due to falling water reserves and higher demand, the carbon footprint of water supply and the social and economic impacts associated with water supply all require UWE Bristol to take action to reduce the consumption of supplied water. By using less water the University will save money on water supply costs, on wastewater disposal charges and the energy used to heat hot water that may be wasted.
Aim	Reduce the use of supplied water
Key Performance Indicators	<ul style="list-style-type: none"> • Absolute water use from the supply network • Relative water use per student FTE • Total rainwater harvesting capacity
Targets	<ul style="list-style-type: none"> • 20% relative reduction in supplied water use by end of 2019/2020
2011/ 12 Baseline Performance	2011/12 absolute supplied water usage: 216,833 cubic meters 2011/12 relative supplied water usage: 7.8 cubic meters/FTE student
Breakthrough Indicator	Master planning maximises the opportunity for sustainable urban drainage system management of water, including full adoption of rainwater harvesting, grey water systems and habitat creation.
Responsibility	Energy Manager
Supporting documents	Water Management Plan Master plan documentation

9.6 IT and enabling digital media

Introduction/purpose	IT plays a significant role in the sustainability of UWE Bristol in many ways including data centre energy use, the life cycle of hardware materials, enabling e-learning and working, operation of campus buildings and delivery of services.
Aim	Continually improve the sustainability of the IT infrastructure whilst maximising the wider social and environmental benefits enabled by IT.
Key Performance Indicators	UWE Bristol's position in relation to green IT industry best practice for: <ul style="list-style-type: none"> • Data Centre efficiency • Virtualisation • Hardware life cycle impact • Print efficiency
Targets	<ul style="list-style-type: none"> • Data centre Power Usage Effectiveness (PUE) of 1.4 • Extent of use of IT to provide live environmental data to influence behavioural change

2011/ 12 Baseline Performance	2011/12 data centre PUE
Breakthrough Indicator	User satisfaction that our IT infrastructure and systems provide outstanding support for the delivery of all aspects of this sustainability plan.
Responsibility	Assistant Director of IT Services (Infrastructure)
Supporting documents	IT Strategy

9.7 Smarter travel

Introduction/purpose	The University must comply with planning regulations imposed as a result of the Master planning proposals and the future development of the Frenchay Campus.
Aim	To reduce single occupancy car journeys to the University, reduce carbon emissions associated with travel and increase the use of sustainable travel options.
Key Performance Indicators	<ul style="list-style-type: none"> • Single occupancy car journeys (daily commute) • Carbon emissions of all travel associated with the University
Targets	<ul style="list-style-type: none"> • By 2020 achieve 27% single occupancy car journey (daily commute)
2011/ 12 Baseline Performance	2011/12 Single occupancy car journeys: 38.9%
Breakthrough Indicator	80% of daily commute journeys are made by sustainable modes of travel.
Responsibility	Travel Planner
Supporting Documents	Travel Smart Plan

9.8 Biodiversity

Introduction/purpose	UWE Bristol campuses cover an area of 150ha, with a significant proportion designated a conservation area. Caring for biodiversity makes UWE Bristol more sustainable and a better place to study, to live and to work. The management of our estate for the benefit of wildlife encourages more people to use and appreciate these spaces, which in turn promotes healthier more active lifestyles. The design of new planting for the benefit of biodiversity is also an opportunity to increase our resilience to climate change.
Aim	Deliver positive gains for biodiversity including measures to create, enhance and manage habitats, with improved access to campus green spaces.
Key Performance Indicators	<ul style="list-style-type: none"> • Habitat diversity • Species diversity • Recreational value of external space
Targets	<p>By 2020:</p> <ul style="list-style-type: none"> • Total length of native hedgerows to have achieved a net increase of 25 meters annually • Increase in diversity of fauna identified in annual bioblitz • Increase the extent of nectar rich planting by 10% annually • Increase the extent of artificial habitat creation by 10% annually • Increase the extent of wildflower meadows by 10% annually • Increase in recorded diversity of birdsong on Campus
2011/ 12 Baseline Performance	Not measured

Breakthrough Indicator	University estate managed as an integrated ecological system.
Responsibility	Grounds Manager
Supporting Documents	Landscape and Biodiversity Management Plan

10. Wider corporate social responsibilities

This Sustainability Plan is part of an overarching package of corporate responsibility policies and plans which include:

- Widening Participation Plan
- Public Engagement Plan
- Health and Safety Plan
- Equality and Diversity Plan
- Human Resources Plan

Information and contact details about all of these plans are available at www.uwe.ac.uk.

11. Conclusions

This Plan spans the years 2013-2020. Overall responsibility for the delivery of the Plan's objectives sits with the Vice-Chancellor, Chair of the Board of Governors and the President of the Students' Union. Responsibility for monitoring is delegated to the UWE Bristol Sustainability Board, which reports to both the Board of Governors and Academic Board. Leadership of the Sustainability Plan is delegated to the Deputy Vice-Chancellor and through him to the teams that will deliver the individual aims of the plan. We believe that implementation of the Sustainability Plan will ensure that the operation of the University and the delivery of the University's 2020 strategy generate a net positive sustainability footprint.

It will do this by:

- Providing a clear framework of reference to guide actions to 2020
- Defining the mechanisms by which sustainability is embedded within the University's day to day decision making and operation
- Contributing to UWE Bristol's 2020 strategy ambition by advancing the health and sustainability of our city and region
- Contributing to UWE Bristol's 2020 strategy priorities through the delivery of ready and able sustainability literate graduates
- Guiding the development of a sustainable estate infrastructure.

An implementation plan exists for each of the thematic areas described in sections 7 – 9 of the Sustainability Plan. These thematic plans detail the actions that will be delivered and contain more detailed interim objectives and targets. Each thematic area has a project group and these groups report quarterly to the UWE Bristol Sustainability Board.

The Sustainability Plan will support UWE Bristol in its goal to become valued as a leader, innovator and trusted partner for sustainable development.