

Biodiversity Plan 2017					
Objective	Sub-objective	Target	Target date for completion	Commentary	Commentary
Ensure protection and enhancement of campus biodiversity by increasing native plant species by 10% through tree planting and installation of green roofs by 2017	To develop initiatives which improve biodiversity on campus	Undertake campus-wide Phase 1 Habitat survey in collaboration with academic and student community	2017	Compliance with legislative requirements, policies and grounds management agreements (including non use of pesticides) leading to beneficial impacts on environment	
		Develop updated Habitat Management Plan to ensure ongoing protection and enhancement	2017		
		install green roofs to New Academic Building and Northfields residences by 2017	Completed	Sedum roofs installed	
		Undertake tree planting of native species to Falmer campus southern boundary by 2017	2017	45 trees of native species planted November 2011	
		Develop record management of environmental history of site	2017	Compliance with Environmental Management System requirements	
Waste Management and Recycling Plan 2017					
Objective	Sub-objective	Target	Target date for completion	Benefit	Commentary
Reduce general waste disposal by 30% by 2020 against a 2005 baseline		Develop and deliver a programme of waste audits across campus to ensure (a) appropriate labelling (b) appropriate wastes are disposed of correctly	Completed	Mitigating risk of prosecution & resultant damage to reputation, compliance with Environmental Management System requirements	Total mass of general waste in 2005/06 was 924 tonnes, of which 799 tonnes (86%) was disposed of (Source: EMS). Target for reduction is 559 tonnes of general waste. Reported general waste was reported at 1,087tonnes for 2016-17 down from 1,361tonnes reported in 2013-14.
		Undertake feasibility study and trial of anaerobic digestion to divert food waste from the general waste stream.	2018 (project under review)	Potential savings to be calculated	General waste disposal costs at the University are significant; £100,000 in 2009/10 (Source: Estates Management Statistics). Subject to an acceptable payback period. Food Caddy trials within Student kitchens will commence in 2017-18.
	Eliminate waste to landfill by 100% by 2020 and seek to ensure all non-recyclable waste is sent locally for energy recovery.		Complete	Reduction in landfill tax, reduction in methane emissions from landfill site	All general waste diverted from landfill now in place, sent to Newhaven Waste to produce energy.
	Increase recycling rates to 80% by 2020 against a 2005 baseline	Develop communication strategy and awareness campaign for waste	2016-17 update	Improved awareness across the campus community will deliver increased recycling rates	Total mass of waste in 2005/06 was 924 tonnes, of which 125 tonnes (14%) was recycled (Source: EMS). We recorded a recycling percentage figure of 27%. This was in part due to the introduction of recycling bags within the student Halls of Residence. We are a long way from our target and will continue to drive initiatives to achieve the 80% target.
Sustainable Transport Plan 2017					
Objective	Sub-objective	Target	Target date for completion	Commentary	
To reduce the environmental impacts from private vehicular transport emissions by 20% by 2020 and increase passenger numbers on buses and trains by 20% by 2020 against the 2009 transport survey results	Reduce the number of car journeys to and from the campus by a minimum of 5.25 per cent per annum until 2020	Continue to encourage sustainable modes of travel such as walking, cycling and public transport through various mechanisms such as season ticket purchasing	2017	The University has reignited their cycle to work policy, have engaged in a staff incentivised rail card reduction scheme called Easit.	
		Review car parking charges in terms of costs and operational times	2017	The University has employed an external car parking company to enforce car parking charges, which will ensure the correct people are using the parking facilities.	
		Carry out additional modes of transport survey of campus users to determine up-to-date data for comparison to benchmark data	Ongoing	Survey completed February 2016 show that over 80% of those surveyed (Staff and Students) commute to and from the University on Public Transport or under their own steam (Cycle/Walk). The sample size was 1,419 people.	
		Review incentives for car sharing	In Progress	Contributes to reduction in car use, reduces congestion on campus	
	Reduce Scope 1 emissions associated with University owned or leased vehicles	Assess the feasibility of replacing all University fossil-fuel powered vehicles with electric or hybrid vehicles	In Progress	2No electric vehicles are in use to imminently replace Scope 1, fossil fuelled vehicles, along with an additional charge point (1 charge point located in SIC car park) 6 vehicles are on order. 50% of the fleet will be electric by 2018.	
Reduce air travel emissions for business use by 10% by end of calendar year 2021 from baseline data of 495 tonnes in calendar year 2011	Quantify Scope 3 transport emissions by 2021	Continue to record and report on data arising from domestic and international air travel undertaken by staff and students and include within Carbon Management Plan, demonstrate reduction as per objective	2017	Data is under review.	

Community Involvement Plan 2017				
Objective	Sub-objective	Target	Target date for completion	Commentary
To engage with Brighton and Hove, Brighton University and Brighton NHS Trust to ensure connectivity between the Carbon management Plans of the respective organisations in order to achieve a joined up approach and maximise opportunities for environmental improvement		To compare CMP's ensuring calculation of Scope 1, 2 & 3 emissions is comparable. To seek to deliver joined-up environmental projects.	Completed	All Meetings have been cancelled.
To engage with the local keys stakeholders in East Sussex regarding the environmental impacts of the Rampion Offshore Wind Farm and act as the local community focus point for liaison with Eon and the Crown Estate	Promote sustainable and renewable energy generation whilst protecting the South Downs National Park	To ensure close co-operation and agreement with key stakeholders including the South Downs National Park Authority, on the appropriate approach to environmental impact assessment and mitigation of adverse impacts by Eon and its contractors, particularly with reference to the underground installation of high voltage electricity cables across the South Downs between the Rampion ashore substation at Lancing and the Bolney inland substation	Completed	
To restart the Environmental Forum, which will discuss all aspects that the university has on its local environment. Attendance is open to all aspects of the university.	Information/concerns and interest will be presented into the Health, Safety and Environmental Forum, chaired by the VC.	To assist in delivering the university's carbon reduction targets, highlighting water conservation and Scope 3 emissions and what we can do to reduce them and work collaboratively to improve the university's performance in all league tables to ensure that we are truly represented and recognised for energy and environmental achievements.	Started 2016 Ongoing	The next meeting is taking place on 18th October 2017.
Increase environmental awareness & ensure positive engagement between the University and the local community on local sustainability issues and to manage the impact on the environment		To become active members of the Brighton and Hove City Sustainability partnership by 2012	To Be Confirmed.	This has been disbanded, awaiting a replacement partnership from Sarah Jones Sustainability Officer of BHCC.
Engagement with the Brighton Biosphere	The Brighton Biosphere support The Living Coast, which is the place where people and nature come together in our world-class environment of Downs, Towns and Coast. We are proud to be a UNESCO World Biosphere Region – our mission is to connect people and nature to inspire a	Maintain involvement and engagement with the group and the wider community.	Ongoing	The Next meeting is taking place on 14th September 2017.
Emissions & Discharges Plan 2017				
Objective	Sub-objective	Target	Target date for completion	Commentary
To prevent potential toxic, chemical or hazardous emissions and pollution to air,		Establish and adopt a procedure to maintain and cascade an appropriate legal register, including subscription to legal database (Croners, HIS or similar)	2016	Mitigating risk of prosecution & resultant damage to reputation, compliance with Environmental Management System requirements

water and land in accordance with best practice guidance and legislation, ensuring 100% compliance with relevant legislation by 2015		Accurately map foul and surface water drainage across the campus, and ensure this is referred to during contractor briefings	2016		
		Assess feasibility of Sustainable Urban Drainage (SUDS) in accordance with Environment Agency guidance when upgrading areas of hard standing and hard landscaping as appropriate to minimise urban rainwater runoff and flood risk	2016		
		Embed emergency preparedness and response procedures for managing pollution incidents on campus into Emergency Management Plan	2016		
		Establish and adopt procedure to identify, quantify and monitor all point source aerial emissions across campus	2016		
		Establish and undertake audit programme to monitor compliance	2016		
To reduce <i>absolute</i> Scope 1 (direct - energy) and Scope 2 (indirect - energy) carbon emissions by 44% by 2020 against a 2005/06 baseline	To reduce energy consumption by 44% by 2020 against a 2005/06 baseline	Install energy sub-metering of substantial energy uses with a pulsed output to enable remote real-time energy consumption monitoring	Initiated Ongoing	Remote real-time energy monitoring allows rapid identification and response to consumption anomalies	
		Ensure all external light fittings are controlled through a time switch or daylight sensor to prevent operation during daylight hours	Complete	Improvements to light fittings and controls have a typical payback period of 1-3 years	
		Ensure where practicable that all internal light fittings are controlled through Passive Infrared Detection (AND daylight sensors where appropriate e.g. in naturally-lit areas)	Ongoing		
		Investigate and trial the installation of LED street lighting	Complete	LED lighting typically saves 80% of the energy of traditional high pressure sodium lighting	
		Undertake feasibility assessment of increasing the CHP operational cycle by 10 hours/week	Complete	Saving of 0.352kg CO ₂ and £0.10 per kilowatt hour	
		Work with ITS to support the department's plan for energy reduction, including PC hibernation and shutdown protocols	2016	Reduced electricity use	
		Carry out transformer tap change during scheduled 5 yearly substation inspection and maintenance to achieve voltage optimisation	2017	Reducing the electrical transformer output could achieve savings of up to 15%, but can only realistically be performed during routine inspection and maintenance of the substations.	
		Implement programme of gas boiler replacement in residences to ensure most energy-efficient SEDBUK A-rated boilers	Ongoing	Reduced gas use - Typically, boiler efficiencies can be improved from 55-60% to 85%+ efficiency	
		Conduct detailed building energy audits to identify low cost and longer term options for efficiency and improvements which comply with Salix funding criteria	Completed		
		Undertake feasibility study for biomass boiler/CHP to supplement gas-fired plant in the Energy Centre	2017	Reduced gas use	
		Seek to change building user behaviours surrounding energy use through education and awareness	Deliver "Student Switch Off" energy awareness campaign across campus residences, complete the outstanding "Snap it off" external lighting repair and raise the profile of the scheme next year	Ongoing	Reduced energy use
			Launch Energy Champions initiative across Schools and Departments	2017	Reduced electricity use
			Work with School of Psychology to support the funded PhD researcher examining the modification of IT user behaviours	2016	Reduced electricity use
Quantify Scope 3 (indirect - other) emissions and develop plans for reduction by 2012 against a 2005 baseline		Quantify scope 3 emissions in accordance with HEFCE guidance and develop targets for reduction as appropriate, e.g. commuter travel to campus (see <i>Transport</i> section)	2017	Reduced liabilities under the Carbon Reduction Commitment (Subject to achievement of targets and league performance)	

Sustainable Procurement Plan 2017

Objective	Sub-objective	Target	Target date for completion	Commentary
Reduce carbon emissions arising from procurement. Further assessment is required on current levels, goals and targets.	Ensure that University purchasing decisions make a positive impact on sustainability and where practical meet the diverse needs of the University, the economy and society at local, national and global level by applying best practice in supply chain management	Educate suppliers concerning the University's sustainable objectives which include; the principal of Fair Trade, preventing pollution, minimising waste, preserving natural resources and promoting resource efficiency by eliminating, reducing, reusing and recycling	2017	Sustainability in the supply chain is becoming an increasingly important issue, as organisations are held accountable under Corporate Social Responsibility. Supply chain emissions are included within the definition of Scope 3 (<i>indirect - other</i>) emissions under the Carbon Reduction Commitment, and will be measured from 2012, increasing the University's CRC liabilities accordingly.
		Work with key suppliers to bring about changes and spread sustainability improvements throughout the supply chain	2017	
		Raise awareness of environmental policy, offering appropriate training, promoting best practice, applying whole life costs for goods and services to be purchased	2017	
		Ensure that suppliers' environmental credentials are considered in the appraisal process (including pre-qualification checks) and that appropriate significance is given to environmental criteria in the award of contracts	2017	
		Give due consideration to the costs and benefits of environmentally preferable products and services alternatives	2017	
		Sign up to Workers Rights Consortium	2017	

		Achieve Level 1 of the <i>Flexible Framework</i> as a means to improve sustainable procurement practices	2017		
Water Management Plan 2017					
Objective	Sub-objective	Target	Target date for completion	Commentary	
To reduce <i>absolute</i> water consumption by 44% by 2020 against a 2005 baseline The 2005 baseline water consumption was 302,717 m ³ , therefore target is 272,445 m ³ . The carbon footprint associated with the supply and treatment of water is 0.695kg CO ₂ /m ³ (Source: MacKay, D, 2009, <i>Sustainable Energy Without the Hot Air</i>), therefore any reduction in water consumption will have a corresponding decrease in the total University carbon footprint.	To minimise unplanned losses and leaks	Replace under-reading and faulty meters identified during water consumption survey with WRA-compliant recommended meters enabled with <i>Open Collector Pulse Transmitters</i>	2016	Improved information management and water balancing in order to identify unplanned losses through consumption anomalies via real-time data	
		Replace automatic make-up switches and sensors to Falmer House moat	Under Investigation 2016	Savings of up to 4.5m ³ per hour (equivalent to £9.68 per hour or £80,000/year)	
		Drain Falmer House moat and investigate for leakage	Completed		
	To identify opportunities to reduce campus-wide water consumption	To identify opportunities to reduce campus-wide water consumption	Undertake water pressurisation pump audit is to determine if there are any savings in replacing the existing pump set based on energy savings and pay-back time	2017	Improved understanding of the water demand requirements with a view to reducing both the energy currently being drawn and ensure an efficient and accurate constant supply pressure is maintained.
			Undertake feasibility studies for rainwater harvesting and deliver at least 1 scheme per year subject to a positive payback of 5 years or less	Ongoing	Reduced water consumption and reduced reliance on mains supply
	To minimise the consumption of potable water in sanitary applications	To minimise the consumption of potable water in sanitary applications	Install solenoid valves on the water supply to each toilet area with the flow of water controlled by passive infrared detectors or door contacts	Ongoing	Savings of up to 6.6m ³ per hour (equivalent to £12.77/hour or £105,000/year). Targets will be delivered as part of Long Term Maintenance (LTM) programme and agreed refurbishment projects through the development of standard specifications.
			Ensure 100% of all WC's have an <i>effective flush volume</i> of 4.5 litres or less, and 80% of WC's have an <i>effective flush volume</i> of 3 litres or less	2017	
			Ensure that all taps (except for kitchen, cleaners' sink, external, process taps in laboratory's) have a maximum flow rate less than 6 litres/min and are listed as a Buildings Research Establishment <i>Green Book Live</i> water saving product	2017	
			Ensure that all urinals are either (a) fitted with individual presence detectors that operate the flushing control with each use or are ultra-low flush or waterless	2017	