

Biodiversity Plan 2017					
	Sub-objective	Target	Target date for completion	Commentary	
	To develop initiatives which improve	Undertake campus-wide Phase 1 Habitat survey in collaboration with academic and student community	Ongoing (2020)	Compliance with legislative requirements, policies and grounds management agreements (including non use	
	biodiversity on campus	Develop updated Habitat Management Plan to ensure ongoing protection and enhancement	Ongoing (2020)	of pesticides) leading to beneficial impacts on environment	
		install green roofs to New Academic Building and Northfields residences by 2017		Sedum roofs installed	
		Undertake tree planting of native species to Falmer campus	Ongoing (2020)	Over 100 trees of native species planted in 2018 a further 100 are planned for November 2018	
		Develop record management of environmental history of site	Ongoing (2020)	Compliance with Environmental Management System requirements	
Waste Management and Recy	cling Plan 2017	<u> </u>		1	<u> </u>
	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	2020 (Improvements	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 figures are as follows: 2013-14 - 1,361tonnes. 2016-17 - 1,086tonnes 2017-18 - 1,057tonnes (Forecast)
		Undertake feasibility study and trial of anaerobic digestion to divert food waste from the general waste stream.	2018 (project under review)		General waste disposal costs at the University are significant; £100,000 in 2009/10 (Source: Estates Management Statistics). Subject to an acceptable payback period. We are trialling food waste bins within the New East Slope Development in 2018-19 to ascertain the viability of a campus role out.
	Eliminate waste to landfill by 100% by 2020 and seek to ensure all non- recyclable waste is sent locally for energy recovery.		Complete		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	2020 (Reassessment required on current practices)		Total mass of waste in 2005/06 was 924 tonnes, of which 125 tonnes (14%) was recycled (Source: EMS). Recycling contract and all necessary infrastructure is in place. Reported % of recycling are as follows: 2013-14 - reported at 48%. 2016-17 - reported at 30%. 2017-18 - reported at 27%. (Forecast)
Sustainable Transport Plan 20					
	Sub-objective	Target	Target date for completion	Commentary	
impacts from private vehicular	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	Ongoing 2019	The University has a cycle to work and a reduced rail fair scheme set up for all University Staff	
2020 and increase passenger numbers on buses and trains by 20% by 2020 against the 2009 transport survey results		Review car parking charges in terms of costs and operational times	Ongoing (2018)	Increase in charges will result in revenue increase for reinvestment in other transport-related environmental schemes	
		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 and public transport figures now shown at over 61% of campus users against a sample survey size of 1419 staff and students.	
		Review incentives for car sharing	On Going (2018)	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	On Going (2018)	8No electric vehicles are in use to imminently replace Scope 1, fossil fuelled vehicles, along with 17 charge point located, 9 for staff and student use in Jubilee Multistory carpark.	

Reduce air travel emissions for	Quantify Scope 3	Continue to record and report on data arising from domestic and	Ongoing Data						
business use by 10% by end of	transport emissions by	international air travel undertaken by staff and students and include	Collection and						
calendar year 2021 from	2021	within Carbon Management Plan, demonstrate reduction as per	Validation (2018)						
baseline data of 495 tonnes in		objective							
calendar year 2011									
Community Involvement Plan 2017									
Objective	Sub-objective	Target	Target date for completion	Commentary					
To engage with the local keys	Promote sustainable	To ensure close co-operation and agreement with key stakeholders	Completed (2018)						
stakeholders in East Sussex	and renewable energy	including the South Downs National Park Authority, on the appropriate							
regarding the environmental	generation whilst	approach to environmental impact assessment and mitigation of							
impacts of the Rampion	protecting the South	adverse impacts by Eon and its contractors, particularly with reference							
Offshore Wind Farm and act as	l.								
	DOWNS National Park	to the underground installation of high voltage electricity cables across							
the local community focus point		the South Downs between the Rampion ashore substation at Lancing							
for liaison with Eon and the		and the Bolney inland substation							
Crown Estate									
To restart the Environmental	Information/concerns	To assist in delivering the university's carbon reduction targets,	Started 2016						
Forum, which will discuss all	and interest will be	highlighting water conservation and Scope 3 emissions and what we	Ongoing (2018)						
aspects that the university has	presented into the	can do to reduce them and work collaboratively to improve the	origoning (2010)						
		1							
on its local environment.	Health, Safety and	university's performance in all league tables to ensure that we are truly							
Attendance is open to all	Environmental Forum,	represented and recognised for energy and environmental							
aspects of the university.	chaired by the VC.	achievements.							
Emissions & Discharges Plan	2017								
Objective	Sub-objective	Target	Target date for completion	Commentary					
To prevent potential toxic,		Establish and adopt a procedure to maintain and cascade an	2019	Mitigating risk of prosecution & resultant damage to					
chemical or hazardous		appropriate legal register, including subscription to legal database		reputation, compliance with Environmental					
emissions and pollution to air,		(Croners, HIS or similar)		Management System requirements					
water and land in accordance		Accurately map foul and surface water drainage across the campus, and	2019						
with best practice guidance and		ensure this is referred to during contractor briefings							
legislation, ensuring 100%		Assess feasibility of Sustainable Urban Drainage (SUDS) in accordance	2019						
compliance with relevant		with Environment Agency guidance when upgrading areas of hard							
legislation by 2015		standing and hard landscaping as appropriate to minimise urban rainwater runoff and flood risk							
			2010	-					
		Embed emergency preparedness and response procedures for managing pollution incidents on campus into Emergency Management	2019						
		Plan							
		Establish and adopt procedure to identify, quantify and monitor all point	2019	1					
		source aerial emissions across campus	20.0						
		Establish and undertake audit programme to monitor compliance	2019						
To reduce absolute Scope 1	To reduce energy	Install energy sub-metering of substantial energy uses with a pulsed	2018 (90%	Remote real-time energy monitoring allows rapid					
(direct - energy) and Scope 2	consumption by 44%	output to enable remote real-time energy consumption monitoring	Completed)	identification and response to consumption anomalies					
(indirect - energy) carbon	by 2020 against a								
emissions by 44% by 2020	2005/06 baseline	Ensure all external light fittings are controlled through a time switch or	Complete	Improvements to light fittings and controls have a					
against a 2005/06 baseline		daylight sensor to prevent operation during daylight hours		typical payback period of 1-3 years LED lighting typically saves 80% of the energy of					
		Ensure where practicable that all internal light fittings are controlled	Ongoing (Trial						
		through Passive Infrared Detection (AND daylight sensors where	Planned for 08/18)						
		appropriate e.g. in naturally-lit areas) Investigate and trial the installation of LED street lighting	Complete						
		Investigate and that the installation of LLD street lighting	Complete	traditional high pressure sodium lighting					
		Undertake feasibility assessment of increasing the CHP operational	Complete	Saving of 0.352kg CO ₂ and £0.10 per kilowatt hour					
		cycle by 10 hours/week							
		Work with ITS to support the department's plan for energy reduction,	Complete	Reduced electricity use					
		including PC hibernation and shutdown protocols	0 1 (0010)						
		Carry out transformer tap change during scheduled 5 yearly substation	Ongoing (2018)	Reducing the electrical transformer output could					
		inspection and maintenance to achieve voltage optimisation		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	Ongoing (2018)	Reduced gas use - Typically, boiler efficiencies can					
		ensure most energy-efficient SEDBUK A-rated boilers	JgJg (2010)	be improved from 55-60% to 85%+ efficiency					
		Conduct detailed building energy audits to identify low cost and longer	Completed	,					
		term options for efficiency and improvements which comply with Salix							
		funding criteria							
		Undertake feasibility study for biomass boiler/CHP to supplement gas-	Ongoing (2018)	Reduced gas use					
		fired plant in the Energy Centre	0 1 (0-1-1-1						
	Seek to change	Deliver "The Student Energy Project" energy awareness campaign	Ongoing (2018)	Reduced energy use					
1	building user	across campus residences,.							

	behaviours surrounding energy	Improve Green Impact Involvement across Schools and Departments	2020	Reduced energy use
	use through education and awareness	Work with School of Psychology to support the funded PhD researcher examining the modification of IT user behaviours	Completed	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)	Ongoing (2020)	Reduced liabilities under the Carbon Reduction Commitment (Subject to achievement of targets and league performance)
Water Management Plan 2017				
Objective	Sub-objective	Target	Target date for completion	Commentary
To reduce absolute water consumption by 44% by 2020 against a 2005 baseline	To minimise unplanned losses and leaks	Replace under-reading and faulty meters identified during water consumption survey with WRA-compliant recommended meters enabled with Open Collector Pulse Transmitters	Ongoing (2020)	Improved information management and water balancing in order to identify unplanned losses through consumption anomalies via real-time data
The 2005 baseline water consumption was 302,717 m ³ ,		Replace automatic make-up switches and sensors to Falmer House moat	Completed	Savings of up to 4.5m ³ per hour (equivalent to £9.68 per hour or £80,000/year)
therefore target is 272,445 m ³).		Drain Falmer House moat and investigate for leakage	Completed	
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</i>	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	Superceeded, pumps to be replaced for the campus masterplan	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.
Without the Hot Air), therefore any reduction in water consumption will have a		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 (2020)	Reduced water consumption and reduced reliance on mains supply
corresponding decrease in the total University carbon footprint.	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 (2020)	Savings of up to 6.6m³ 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.
iootpinit.		Ensure 100% of all WC's have an effective flush volume of 4.5 litres or less, and 80% of WC's have an effective flush volume of 3 litres or less	Completed	
		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	Completed	
		Ensure that all urinals are either (a) fitted with individual presence detectors that operate the flushing control with each use <i>or</i> are ultra-low flush or waterless	Completed	