

Environment Strategy 2011-15

Anglia Ruskin University

Over the last decade Anglia Ruskin University has consolidated its position in the East of England and is now ready to build on this success. In the next five years we will expand and improve our physical facilities, deliver a flexible curriculum that continues to exceed expectation and build new regional partnerships with commerce, the public sector, local communities and industry.

Environmental Policy Statement

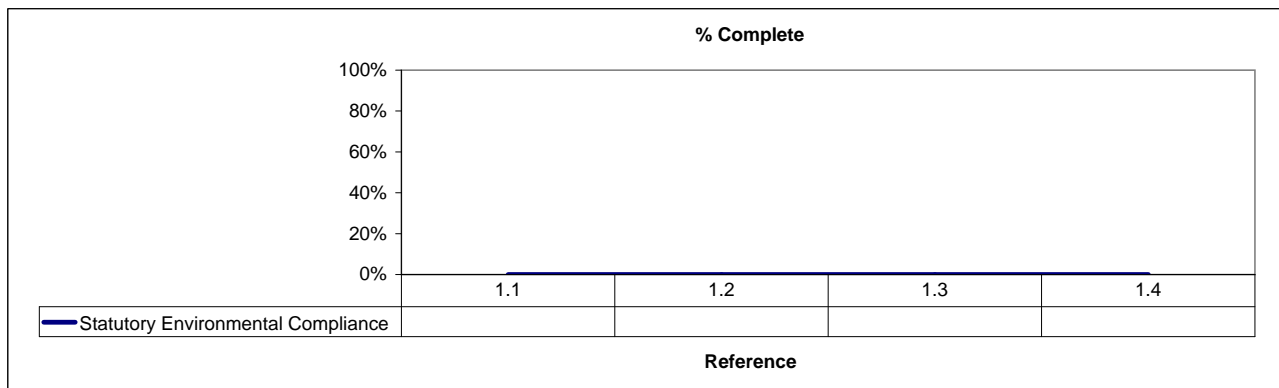
Anglia Ruskin recognises that its daily activities may result in adverse impacts on the Environment. We will implement an appropriate Environmental Management System (EMS) to ensure that as a minimum legal compliance is met if not surpassed. Where practical it will aim to eliminate or minimise the adverse environmental impacts and prevent pollution. It will through the EMS continue to improve its environmental performance and regularly review this policy, setting appropriate objectives and targets.

Anglia Ruskin University will through the introduction of an Environmental Management System

<u>1</u>	Commit to meet statutory environmental compliance and other relevant codes of practice and where practical seek to surpass them.
<u>2</u>	Actively manage within its means energy and water consumption across the Estate to seek to ensure that optimum efficiencies are realised, waste eliminated and carbon emissions reduced.
<u>3</u>	Introduce progressive waste management procedures to seek to minimise waste to landfill by increasing recycling and re-use rates.
<u>4</u>	Improve site accessibility and reduce reliance on the car by implementing measures that reduce the need to travel and encourage greater patronage for walking, cycling, car-sharing and public transport use.
<u>5</u>	Introduce a procurement strategy that seeks to deliver value for money and supports the energy and water efficiency, waste minimisation, sustainable travel and carbon reduction initiatives.
<u>6</u>	Encourage all contractors, suppliers and third parties to take active pragmatic steps to ensure that their services, products and activities do not breach the University's environmental objectives.
<u>7</u>	Ensure that all new build/refurbishments minimise their environmental impact during the construction phase, attain as a minimum a 'Very Good' rating under BREEAM and are cost efficient to run through energy and water savings.
<u>8</u>	Maintain the University landscapes in a cost effective manner which delivers high amenity value and supports biodiversity and wildlife.
<u>9</u>	Increase the integration of sustainable development into the curriculum and in practice through day to day operational activities and influence student behaviour.
<u>10</u>	Raise awareness amongst stakeholders of this Environmental Policy and the University's commitment to improving its environmental performance.
<u>11</u>	Regularly review environmental performance, set targets and produce a report for inclusion in the University's annual report.

Statutory Environmental Compliance	Aim One	Ensure its activities and procedures meet as a minimum statutory environmental compliance and where practical surpass them.	Target Date: Apr 11 - Jul 15
Environmental (ISO 14001):	Objectives:	Maintain ISO 14001 accreditation for Anglia Ruskin University.	
		Embed continual environmental improvement.	
	Co-ordinator:	Environment Manager	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
1.1	Maintain an annual audit programme covering all elements of the environmental management system.	Environment Manager	Environment Team	Apr-11	Jul-15	
1.2	Maintain a legal register to ensure compliance with environmental legislation.	Environment Manager	Environment Team	Apr-11	Jul-15	
1.3	Maintain and regularly review a register of environmental aspects.	Environment Manager	Environment Team	Apr-11	Jul-15	
1.4	Identify options to enhance user friendliness of the environmental management system.	Environment Manager	Environment Team	Jul-11	Dec-11	
1.5	Complete annual Management Reviews of the environmental management system to ensure continual improvement.	Environment Manager	Environment Team	Apr-11	Jul-15	

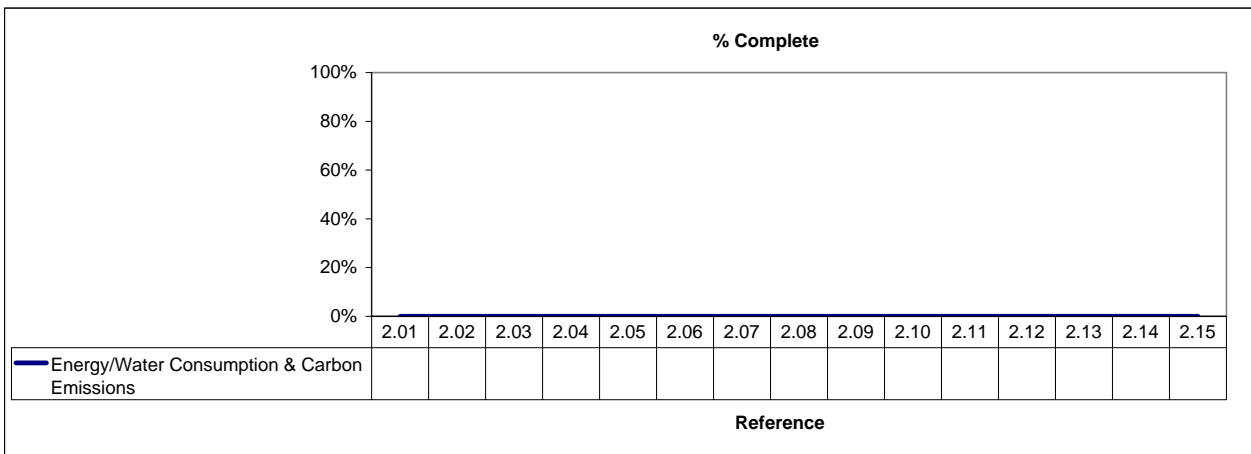


<p>Energy/ Water Consumption and Carbon Emissions</p>	<p>Aim Two</p>	<p>Actively manage within its means energy and water consumption across the Estate to ensure that optimum efficiencies are realised, waste eliminated and carbon emissions reduced</p>	<p>Target Date: Apr 11 - Jul 15</p>
<p>Environmental (ISO 14001):</p>	<p>Objectives:</p>	<p>Reduce scope 1 & 2 carbon emissions from ARU activities from a 2005-06 baseline by 27% by 2014-15</p> <p>To reduce energy consumption per FTE student/staff numbers by 10% within four years with the financial year 04/05 as the base reference year</p> <p>To reduce water consumption per FTE student and staff numbers by 10% within four years with the financial year 04/05 as the base reference year</p>	<p>Co-ordinator: Environment Manager / Sustainability Engineer</p>

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
2.01	Improve building scale <u>energy monitoring & targeting</u> by integrating existing half hourly sub-meters with existing energy management software.	Environment Manager	Environment Team	Mar-11	Jul-11	
2.02	Utilise improved half hourly building energy data to <u>monitor building performance</u> using a range of metrics (£/m ² , kWh/m ² , kWh/staff & student FTE) enabling prioritisation of buildings for improvement work.	Environment Manager	Environment Team	Jul-11	Oct-11	
2.03	Improve energy performance monitoring and forecasting by establishing an <u>energy projects and opportunities register</u> detailing changes to consumption, costs and CO2 emissions identified through energy surveys, Building Management System monitoring, DEC and air conditioning plant assessments, and the ARU Sustainability Committee.	Sustainability Engineer	Building Services supported by Environment Team	Apr-11	Jul-11	
2.04	Identify additional projects for <u>Salix funding</u> and other external funding streams as appropriate.	Sustainability Engineer	Building Services supported by Environment Team	Aug-11	Jul-15	
2.05	<u>Compliance</u> with relevant legislation will be assured through maintenance of the ISO 14001 legal register, including the Energy Performance of Buildings Directive and CRC EES.	Environment Manager	Environment Team	Apr-11	Jul-15	
2.06	Incorporate <u>progress reporting</u> towards achievement of carbon saving targets with quarterly and annual reports of the ISO 14001 environmental management system.	Environment Manager	Environment Team	Apr-11	Jul-15	
2.07	Progress delivery of projects added to the energy projects and opportunities register assessed to be viable, including those identified through the <u>Carbon Trust Higher Education Carbon Management Programme</u> listed in Appendix B of the ARU Carbon & Energy Management Plan 2010-15.	Sustainability Engineer	Building Services	Aug-11	Jul-15	
2.08	Strengthen the utilisation of <u>Building Management Systems</u> at both Cambridge and Chelmsford campuses to optimise building energy utilisation and monitor performance.	Sustainability Engineer	Building Services	Apr-11	Jul-12	
2.09	Investigate options for introducing a <u>financial incentive</u> for faculties and services to reduce energy consumption.	Environment Manager	Environment Team	Aug-11	Jul-12	
2.10	Adoption of responsible energy behaviours will be promoted through relevant <u>campaigns</u> , including Student Switch Off and Green Impact Universities.	Environment Manager	Sustainability Committee & Environment Team	Apr-11	Jul-15	
2.11	Investigate installation of <u>real time energy consumption displays</u> in university public areas and/or website.	Environment Manager	Environment Team	Aug-11	Jul-12	
2.12	Identify additional <u>energy savings opportunities</u> in key university faculties and services including maintenance and Information Technology.	Chair of Sustainability Committee / Sustainability Engineer / Environment Manager	Sustainability Committee, Building Services & Environment Team	Apr-11	Jul-15	
2.13	Energy saving awareness and action will be promoted through integration in ISO 14001 <u>training and communications</u> programme, staff induction and other appropriate university events.	Environment Manager	Environment Team supported by Building Services	Aug-11	Jul-15	
2.14	Secure most advantageous energy prices by adopting <u>flexible purchasing policies</u> for all electricity and gas contracts.	Environment Manager	Environment Team	Apr-11	Jul-15	

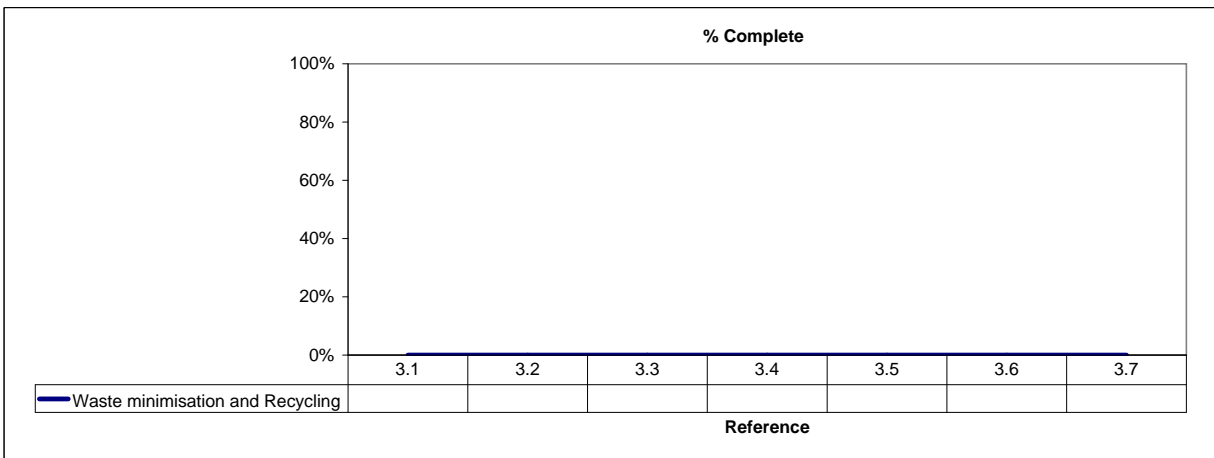
Energy/ Water Consumption and Carbon Emissions	Aim Two	Actively manage within its means energy and water consumption across the Estate to ensure that optimum efficiencies are realised, waste eliminated and carbon emissions reduced	Target Date: Apr 11 - Jul 15
Environmental (ISO 14001):	Objectives:	Reduce scope 1 & 2 carbon emissions from ARU activities from a 2005-06 baseline by 27% by 2014-15	
		To reduce energy consumption per FTE student/staff numbers by 10% within four years with the financial year 04/05 as the base reference year	
		To reduce water consumption per FTE student and staff numbers by 10% within four years with the financial year 04/05 as the base reference year	
	Co-ordinator:	Environment Manager / Sustainability Engineer	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
2.15	Improve the efficiency of utility bill checking by adopting <u>electronic EDI billing</u> (subject to supplier capability) integrated with existing energy management software.	Environment Manager	Environment Team	Mar-11	Jul-11	



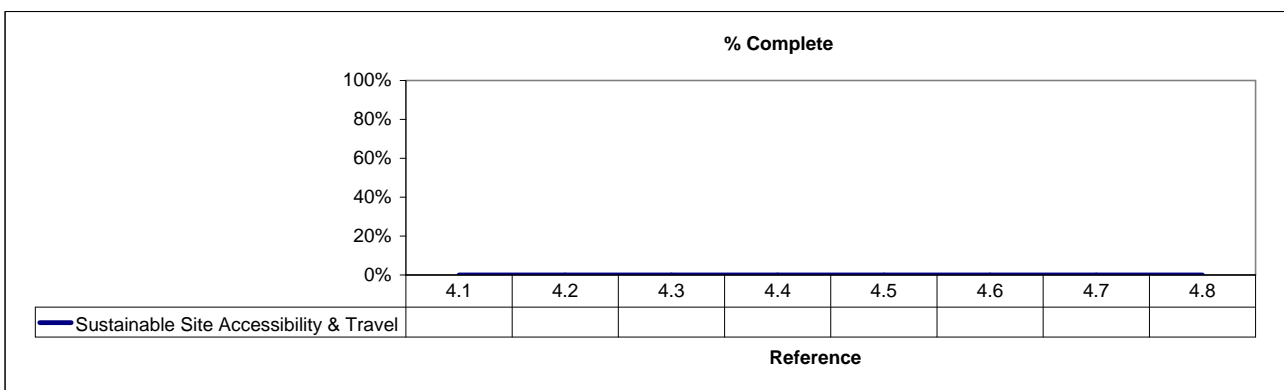
Waste Minimisation, Recycling & Hazardous Waste	Aim Three	Introduce progressive waste management procedures to seek to minimise waste to landfill by increasing recycling and re-use rates	Target Date: Apr 11 - Jul 15
	Objectives:	Reduce the amount of waste generated to 0.10 tonnes per FTE staff & students by July 2015.	
		Increase the proportion of waste diverted from landfill to at least 60% by July 2015.	
		Establish arrangements for monitoring, reporting and minimising construction & demolition waste.	
		Strengthen arrangements for monitoring, reporting and minimising hazardous waste streams.	
Co-ordinator:	Environment Manager / Facilities Services Manager (Soft Services)		

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
3.1	Establish procedures for monitoring and reporting paper usage by different faculties and services through introduction of workflow monitoring software on multi-functional devices.	Head of Digital Copy Services / Head of Procurement / Environment Manager	Digital Copy Services / Procurement / Environment	May-11	Jul-12	
3.2	Review the waste minimisation content of communications and training provided to staff and students to encourage and reward behaviour change.	Environment Manager / Internal Communications Officer	Environment / E&F Communications	Jul-11	Feb-12	
3.3	Identify options for undertaking an annual waste audit.	Environment Manager	Environment / Sustainability Committee	Jul-11	Jul-12	
3.4	Assess the feasibility of introducing the following during re-tendering of waste management contracts for Cambridge & Chelmsford campuses: <ul style="list-style-type: none"> co-mingled dry recycling collections separate food & green waste collections pay by weight contract 	Facilities Services Manager (Soft Services) / Environment Manager	Soft Services / Environment	Jul-11	Jul-12	
3.5	Review changes to internal bins, building cleaning, external waste storage, information and signage to reflect new waste management contracts.	Facilities Services Manager (Soft Services) / Environment Manager	Soft Services / Environment	Aug-12	Jul-13	
3.6	Establish procedures for monitoring & reporting of construction & demolition waste streams and set targets for minimisation and recycling compared to sector benchmarks.	Environment Manager / Assistant Director of Estates & Facilities Services - Projects	Environment / Projects / Minor Works	May-11	Dec-11	
3.7	Review existing arrangements for management of all hazardous waste streams (electrical, ICT, clinical, chemical, radioactive) across faculties and services and introduce measures to strengthen monitoring, reporting and minimisation.	Environment Manager	Environment / Sustainability Committee	Aug-11	Jul-12	



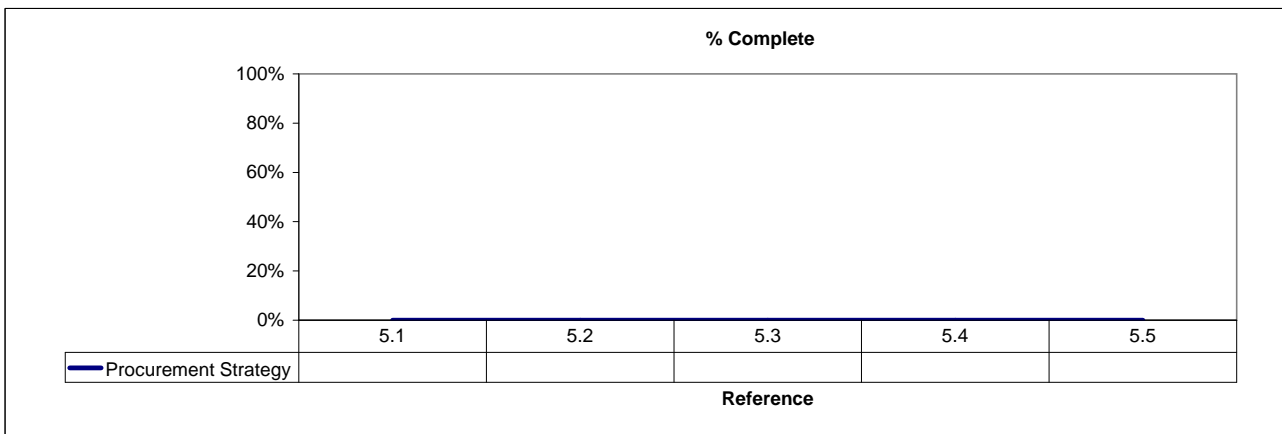
<p>Sustainable Site Accessibility & Travel</p>	<p>Aim Four</p>	<p>Improve site accessibility and reduce reliance on the car by implementing measures that reduce the need to travel and encourage greater patronage for walking, cycling, car-sharing and public transport use.</p>	<p>Target Date: Apr 11 - Jul 15</p>
<p>Environmental (ISO 14001):</p>	<p>Objectives:</p>	<p>Maintain year on year reductions in single occupancy car journeys for staff and student commuting and business travel.</p> <p>Establish monitoring and reporting arrangements for scope 3 carbon emissions associated with travel.</p> <p>Maintain best practice recognition for our travel plan achievements.</p>	
<p>Co-ordinator:</p>		<p>Environment Manager</p>	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
4.1	Carry out regular travel surveys of staff and students.	Environment Manager	Environment Team	Apr-11	Jul-15	
4.2	Improve cycling facilities where lack of supply identified and space is available.	Environment Manager	Environment Team	Apr-11	Jul-15	
4.3	Carry out feasibility study for introduction of a car club scheme in Cambridge/Chelmsford for staff and student use to reduce the need to bring vehicles onto site and reduce car rental costs. Implement trial	Environment Manager	Environment Team	Apr-11	Dec-11	
4.4	Establish monitoring and reporting method for scope 3 business travel carbon emissions.	Environment Manager	Environment Team	Apr-11	Dec-11	
4.5	Obtain financial incentives and benefits for staff and students to use sustainable travel options, including public transport discounts and CycleScheme.	Environment Manager	Environment Team	Apr-11	Jul-15	
4.6	Promote the University Travel Plan amongst new and existing staff and students.	Environment Manager	Environment Team	Apr-11	Jul-15	
4.7	Maintain travel plan excellence award for Cambridge and seek to improve year on year.	Environment Manager	Environment Team	Apr-11	Jul-15	
4.8	Maintain gold award for Essex County Council travel plan and seek to improve year on year.	Environment Manager	Environment Team	Apr-11	Jul-15	



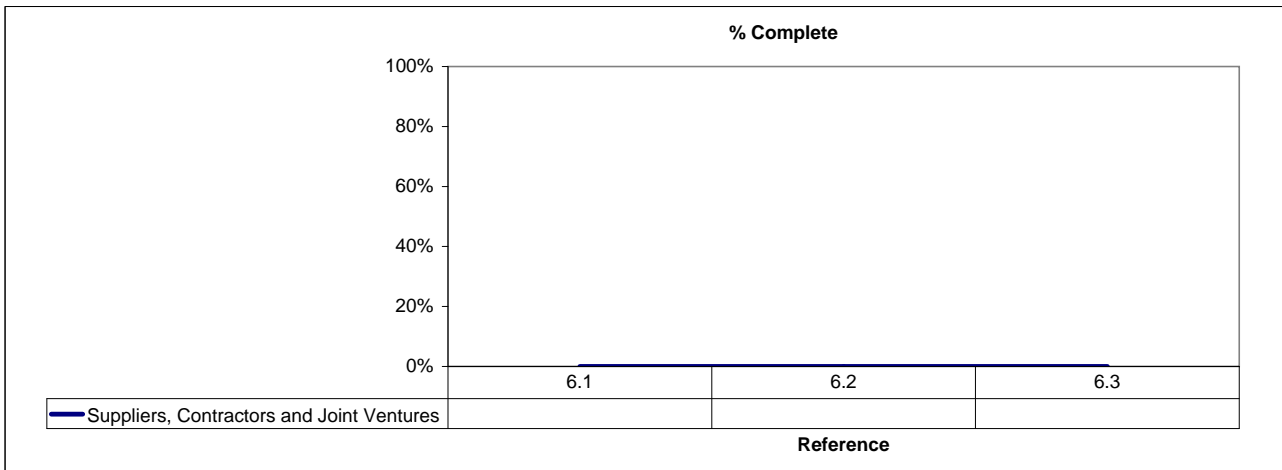
Procurement Strategy	Aim Five	Introduce a procurement strategy that seeks to deliver value for money and supports the energy and water efficiency, waste minimisation, sustainable travel and carbon reduction initiatives.	Target Date: Apr 11 - Jul 15
Environmental (ISO 14001):	Objectives:	Increase awareness and practice of sustainable procurement by faculties and services.	
		Adopt national recommended sustainable procurement standards.	
	Co-ordinator:	Procurement \ Environment Team	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
5.1	Develop a sustainable procurement training and awareness programme.	Head of Procurement / Environment Manager	Procurement / Environment	Aug-11	Jul-12	
5.2	Develop sustainable procurement performance indicators and arrangements for their monitoring and annual reporting.	Head of Procurement / Environment Manager	Procurement / Environment	Apr-11	Jul-12	
5.3	Ensure compliance with the EU Energy Services Directive by adopting and verifying 'Government Buying Standards' for all relevant procurement specifications as a minimum.	Head of Procurement / Environment Manager	Procurement / Environment	Apr-11	Dec-11	
5.4	Adopt guidance produced by HEFCE to ensure that scope 3 carbon emissions related to procurement can be reported on from 2012/13.	Head of Procurement / Environment Manager	Procurement / Environment	Aug-11	May-13	
5.5	Develop a sustainable food policy.	Environment Manager / Catering, Hospitality & Events Manager	Environment / Catering	Apr-11	Jan-12	
5.6	Flexible Framework (from the National Sustainable Action plan – Appendix A) Achieve level 2 Achieve level 3 Achieve level 4	Head of Procurement / Environment Manager	Procurement / Environment	Apr-11	Jul-13 Jul-14 Jul-15	



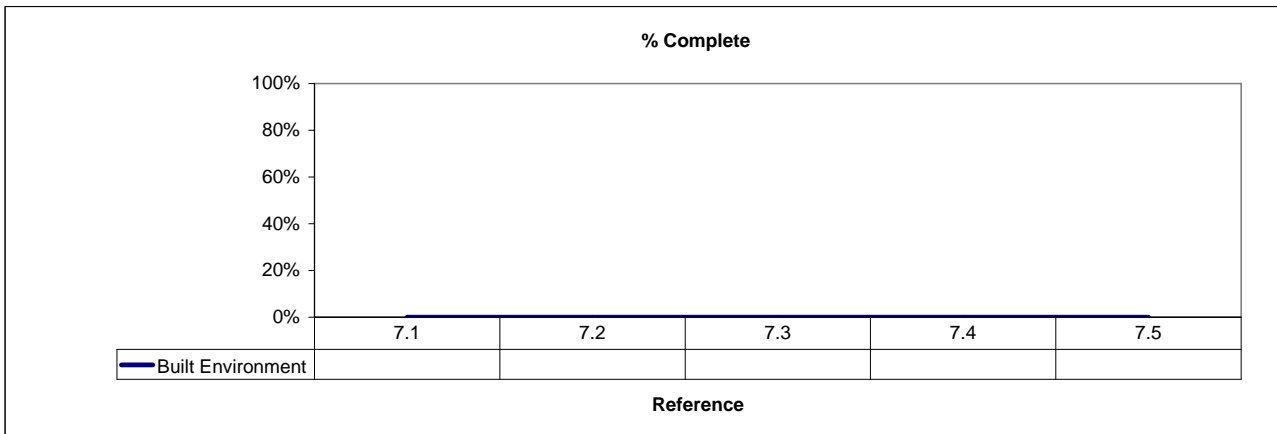
Suppliers, Contractors and Joint Ventures	Aim Six	Encourage all contractors, suppliers and third parties to take active pragmatic steps to ensure that their services, products and activities do not breach the University's environmental objectives	Target Date: Apr 11 - Jul 15
Environmental (ISO 14001):	Objectives:	Strengthen environmental provisions within key contractual relationships.	
		Liaise and assist Joint Ventures sharing best practice	
	Co-ordinator:	Environment Manager	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
6.1	Identify key contracts and suppliers by value and review existing environmental contract provisions.	Environment Manager / Head of Procurement	Environment / Procurement	Aug-11	Dec-11	
6.2	Strengthen environmental provisions within all new contracts above £50,000.	Environment Manager / Head of Procurement	Environment / Procurement	Jan-12	Jul-15	
6.3	Share environmental good practice with key contractors and joint ventures and agree common procedures where practicable.	Environment Manager	Environment	Aug-11	Jul-15	



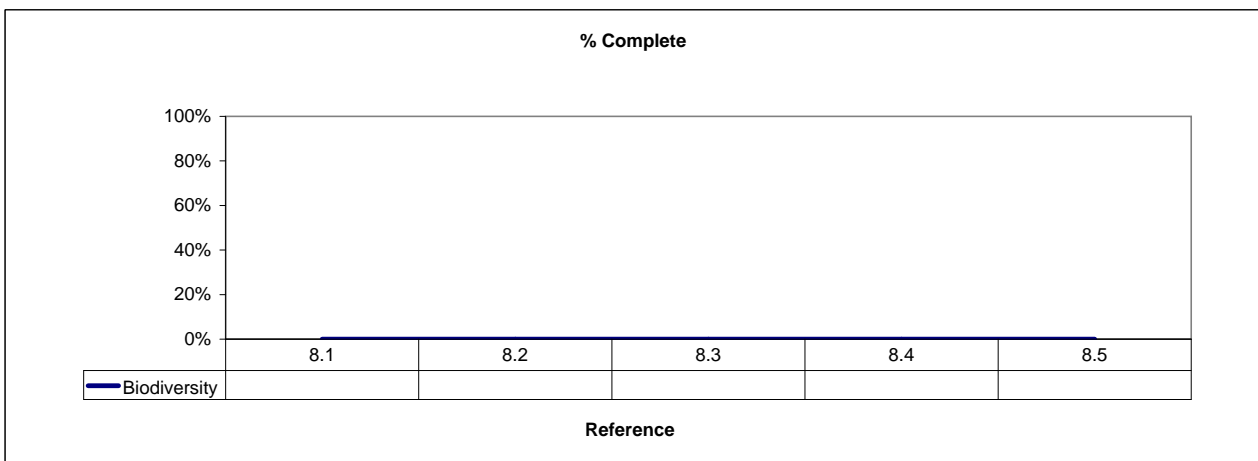
Built Environment	Aim Seven	Ensure that all new build/refurbishments minimise their environmental impact during the construction phase, attain as a minimum a 'Very Good' rating under BREEAM and are cost efficient to run through energy and water savings.	Target Date: Apr 11 - Jul 15
Environmental (ISO 14001):	Objectives:	Identify the environmental risks and opportunities associated with all new build and refurbishment projects.	
		Develop minimum environmental standards for all new build and refurbishment projects.	
	Co-ordinator:	Assistant Director of Estates & Facilities Services - Projects \ Sustainability Engineer	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
7.1	All new university developments will aim to achieve at least <u>BREEAM 'Very Good' standard</u> or higher where resources allow.	Assistant Director of Estates & Facilities Services - Projects	Projects supported by Building Services	Apr-11	Jul-15	
7.2	Improve new building handover and efficient operation through early integration into the <u>commissioning process</u> .	Sustainability Engineer	Building Services	Apr-11	Jul-15	
7.3	Opportunities for installing <u>onsite low and zero carbon energy generation</u> will be progressed where it is assessed to be financially viable.	Sustainability Engineer	Building Services supported by Environment Team	Aug-11	Jul-15	
7.4	<u>Design guidance</u> will be developed specifying the energy requirements of building upgrades and refurbishments.	Sustainability Engineer	Building Services	Apr-11	Jul-11	
7.5	Energy and CO2 impacts and savings opportunities of all new projects will be assessed through adoption of an <u>Environmental Risk Assessment</u> .	Sustainability Engineer	Building Services supported by Environment Team	Apr-11	Sep-11	



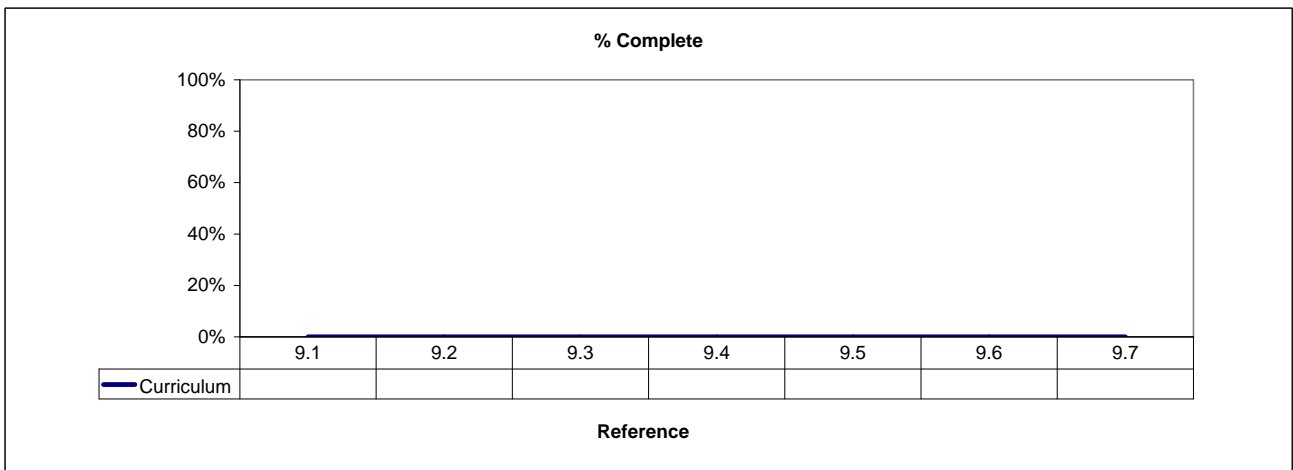
Biodiversity	Aim Eight	Maintain the University landscapes in a cost effective manner which delivers high amenity value and supports biodiversity and wildlife	Target Date: Apr 11 - Jul 15
Environmental (ISO 14001):	Objectives:	Ensure that biodiversity impacts are considered in our strategic and day to day operations.	
		Obtain the Biodiversity Benchmark standard.	
	Co-ordinator:	Environment Manager / Facilities Services Manager (Soft Services)	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
8.1	Undertake an ecological survey of our campuses identifying risks and opportunities for biodiversity enhancement.	Environment Manager / Facilities Services Manager (Soft Services)	Environment Team / Soft Services	Apr-11	Jul-12	
8.2	Adopt corporate membership of the Wildlife Trusts.	Environment Manager / Facilities Services Manager (Soft Services) / Corporate Communications Manager	Environment Team / Soft Services / Marketing	Apr-11	Jul-11	
8.3	Identify opportunities for enabling staff & students to participate in biodiversity enhancement projects.	Environment Manager / Facilities Services Manager (Soft Services)	Environment Team / Soft Services	Apr-11	Jul-12	
8.4	Promote biodiversity enhancement through grounds maintenance contract management.	Environment Manager / Facilities Services Manager (Soft Services)	Environment Team / Soft Services	Apr-11	Jul-15	
8.5	Integrate biodiversity objectives and actions within existing environmental management system.	Environment Manager / Facilities Services Manager (Soft Services)	Environment Team / Soft Services	Apr-11	Jul-14	



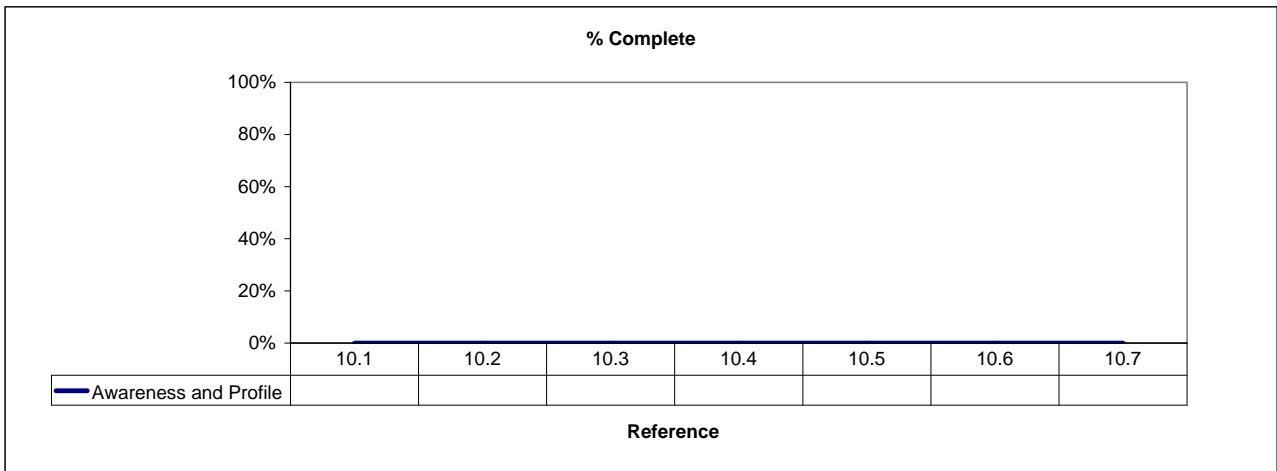
Curriculum	Aim Nine	Increase the integration of sustainable development into the curriculum and in practice through day to day operational activities and influence student behaviour.	Target Date: Aug 11 - Jul 14
Environmental (ISO 14001):	Objectives:	By 2012 establish and communicate a vision for education for sustainable development and for how its quality and success can be assessed.	
	Co-ordinator:	Chair of Sustainability Committee	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
9.1	Collect case studies of what is currently happening in order to establish a baseline, recruit model practitioners, and share successes.	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-11	Jul-12	
9.2	Establish and communicate a vision for the nature of ESD and for how its quality and success can be assessed.	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-11	Jul-12	
9.3	Provide a conference in which this vision and these successes can be celebrated and appropriate pedagogic methods can be demonstrated.	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-11	Jul-12	
9.4	Establish a rolling programme and methodology for including reflection on ESD in programme and module revision and development.	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-12	Jul-13	
9.5	Establish training options for staff incorporating or developing the ESD dimensions of courses.	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-12	Jul-13	
9.6	For relevant courses, engage students with the environmental management procedures of our university	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-12	Jul-13	
9.7	Evaluate the impact of ESD by comparing student outcomes in courses with well-established, newly established, and as yet un-established ESD provision.	Chair of Sustainability Committee	ESD Strategy Group with Learning Development Services	Aug-13	Jul-14	



Awareness and Profile	Aim Ten	Raise awareness amongst stakeholders of this Environmental Policy and the University's commitment to improving its environmental performance	Target Date: Aug 07 - Jul 10
Environmental (ISO 14001):	Objectives:	Provide a programme of environmental and communications activities.	
		Participate in national education sector environmental benchmarking and engagement initiatives.	
		Increase transparency of Anglia Ruskin's environmental performance.	
		Support staff & students to adopt more sustainable behaviours at work and at home.	
	Co-ordinator:	Environment Manager	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
10.1	Integrate sustainability messages within ARU communications programmes, including estates & facilities, accommodation, and corporate marketing.	Environment Manager / Internal Communications Officer	Environment Team	Apr-11	Jul-15	
10.2	Establish an annual calendar of environmental events to enable participation planning.	Environment Manager	Environment Team	Apr-11	Jul-11	
10.3	Provide regular, detailed environmental performance information, including energy displays.	Environment Manager	Environment Team	Apr-11	Dec-11	
10.4	Participate in external corporate benchmarking for environmental management and sustainability and publicise the results.	Environment Manager	Environment Team	Apr-11	Jul-15	
10.5	Participate in the annual NUS-led Green Impact Universities accreditation scheme to engage staff in environmental performance improvement.	Environment Manager	Environment Team	Apr-11	Jul-15	
10.6	Develop a programme for environmental training.	Environment Manager	Environment Team	Aug-11	Jul-12	
10.7	Participate in the annual NUS-led Student Switch Off scheme to engage students in environmental performance improvement.	Environment Manager	Environment Team	Apr-11	Jul-15	



Reporting	Aim Eleven	Regularly review environmental performance, set targets and produce a report for inclusion in the University's annual report.	Target Date: Aug 07 - Aug 10
Environmental (ISO 14001):	Objectives:	Publicise environmental achievements and performance within corporate and service annual reports.	
		Produce quarterly and annual environmental reports.	
	Co-ordinator:	Environment Manager	

Ref	Action	Owner	Team	Start Date (M/Y)	End Date (M/Y)	% Complete
11.1	Report environmental data annually through Estate management Statistics.	Environment Manager	Environment	Apr-11	Jul-15	
11.2	Report environmental performance and achievements within annual ARU and Estates & Facilities Service annual report.	Environment Manager	Environment	Apr-11	Jul-15	
11.3	Produce quarterly and annual environmental report.	Environment Manager	Environment	Apr-11	Jul-15	

