

Environmental Programme

Impact Area	Target ref	% Complete	Target Date
STRATEGIC MANAGEMENT	EMP1	50	31/12/2013
TARGET	OBJECTIVE		
DEVELOP A TANGIBLE VISION OF A SUSTAINABLE UEA	DEVELOP THE SUSTAINABILITY AGENDA AT UEA		
PERFORMANCE INDICATOR	Responsible person(s)		
Vision effectively communicated to stakeholders	Gideon Middleton		
Notes			
Proposal by Gideon Middleton emphasising the Sustainable advantage first submitted in June 2011. Deadline extended: Use 50th anniversary and Green Academy Change Programme as opportunities to develop this vision with stakeholders.			
STRATEGIC MANAGEMENT	EMP4	67	31/12/2013
TARGET	OBJECTIVE		
ACHIEVE ECOCAMPUS PLATINUM AWARD	IMPLEMENT AN ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED TO ISO14001 VIA ECOCAMPUS SCHEME		
PERFORMANCE INDICATOR	Responsible person(s)		
Award achieved	Martyn Newton		
Notes			
A full cycle of internal EMS audits must be completed to achieve the award. It is anticipated a combined Platinum/ ISO14001 audit will be undertaken before Dec 2013, dependent on resource input for internal auditing. Audit programme established and will be reviewed in August 2013			
STRATEGIC MANAGEMENT	EMP5	62	31/12/2013
TARGET	OBJECTIVE		
ACHIEVE CERTIFICATION TO ISO14001	IMPLEMENT AN ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED TO ISO14001 VIA ECOCAMPUS SCHEME		
PERFORMANCE INDICATOR	Responsible person(s)		
Certification achieved	Martyn Newton		
Notes			
It is anticipated a combined Platinum/ ISO14001 audit will be undertaken before Dec 2013, dependent on resource input for internal auditing.			
STRATEGIC MANAGEMENT	EMP7	0	31/12/2012
TARGET	OBJECTIVE		
NUMBER OF STAFF TRAINED/HOURS OF TRAINING (job specific) KPI only	EMPOWER AND MOTIVATE STAFF TO SUPPORT EMS IMPLEMENTATION		
PERFORMANCE INDICATOR	Responsible person(s)		
number of staff trained/hours of training	Neil Wilson		
Notes			
Jan - Dec 2011 - baseline 162 attendees, 86 hours training Jan - Dec 2012 - 112 attendees, 71 hours training (data to be confirmed) hours target to be agreed			

Impact Area	Target ref	% Complete	Target Date
STRATEGIC MANAGEMENT	EMP8	90	31/03/2013
TARGET	OBJECTIVE		
PUBLISH ANNUAL ENVIRONMENTAL REPORT	EFFECTIVELY COMMUNICATE TO SHARE KNOWLEDGE AND LEARNING		
PERFORMANCE INDICATOR	Responsible person(s)		
	Martyn Newton		
Notes			
Annual commitment. A draft third report is being reviewed by stakeholders and at Sustainability Board in March 2013.			
BIODIVERSITY AND LANDSCAPE	EMP9	98	31/01/2012
TARGET	OBJECTIVE		
PUBLISH COMPREHENSIVE BIODIVERSITY REPORT AND IMPLEMENT REGULAR MONITORING	MAINTAIN AND ENHANCE BIODIVERSITY		
PERFORMANCE INDICATOR	Responsible person(s)		
Comprehensive Biodiversity Audit report published - KPI/target to be agreed	Iain Barr		
Notes			
Audit report completed March 2012. Indicator species will undergo continued monitoring according to a 10 year programme. Awaiting web pages			
BIODIVERSITY AND LANDSCAPE	EMP10	60	31/12/2015
TARGET	OBJECTIVE		
INCORPORATE BIODIVERSITY ENHANCEMENTS IN ALL NEW BUILD PROJECTS	MAINTAIN AND ENHANCE BIODIVERSITY		
PERFORMANCE INDICATOR	Responsible person(s)		
guidelines in place in design guide, all new build projects incorporate enhancements	Iain Barr		
Notes	Martyn Newton		
design guide now includes guidance on enhancements. Discussions are on-going regarding enhancements for Earlham Hall, NRP Enterprise Centre and the thoroughfare.			
BIODIVERSITY AND LANDSCAPE	EMP11	30	31/12/2015
TARGET	OBJECTIVE		
HALT SCRUB ENCROACHMENT IN UNIVERSITY FEN, BLUEBELL MARSH AND BUTTERFLY MEADOW	MAINTAIN AND ENHANCE BIODIVERSITY		
PERFORMANCE INDICATOR	Responsible person(s)		
comparison of extent of area with old aerial photographs/Google Earth and biodiversity monitoring results	Oliver Deeming		
Notes	Iain Barr		
Highland cattle have been introduced to graze the fens and sections of scrub have been cleared to enable the Butterfly Meadow to expand again. Management is on-going and over the next three years all areas should be approaching their former quality			
BIODIVERSITY AND LANDSCAPE	EMP13	75	30/09/2013
TARGET	OBJECTIVE		
REDUCE NUTRIENT LEVELS IN THE WATER SOLDIER POND TO THOSE BENEFICIAL FOR NUTRIENT POOR PLANTS	MAINTAIN AND ENHANCE BIODIVERSITY		
PERFORMANCE INDICATOR	Responsible person(s)		
number of hours work removing sludge, biodiversity monitoring results, nutrient poor plants and dragonfly larvae present	Oliver Deeming		
Notes	Iain Barr		
UEA Volunteers involved in conservation work Target date changed due to recolonisation by pondweed			

Impact Area	Target ref	% Complete	Target Date
<p>BUILT ENVIRONMENT (INCLUDING CAMPUS DEVELOPMENT AND REFURBISHMENTS)</p> <p>TARGET</p> <p>ZERO EMISSIONS OF R22 REFRIGERANT</p> <p>PERFORMANCE INDICATOR</p> <p>Absolute emissions of Ozone-depleting substances, kg CFC-11 equivalent.</p> <p>Notes</p> <p>CO2e will also be monitored within EMP17 to ensure replacement gases do not increase refrigerants contribution to GHG emissions. R22 emissions: 2008/9 1.5 kg CFC-11e 2009/10 3.7kg 2010/11 0kg 2011/12 21kg</p>	EMP14	25	31/07/2014
	<p>OBJECTIVE</p> <p>EFFECTIVELY CONTROL THE ENVIRONMENTAL IMPACTS OF FACILITIES MAINTENANCE</p> <p>Responsible person(s)</p> <p>Richard Wilkin</p> <p>Andrew Burbidge</p>		
<p>BUILT ENVIRONMENT (INCLUDING CAMPUS DEVELOPMENT AND REFURBISHMENTS)</p> <p>TARGET</p> <p>ALL NEW BUILD PROJECTS TO ACHIEVE BREEAM EXCELLENT - ongoing target; as and when each new project arises</p> <p>PERFORMANCE INDICATOR</p> <p>All new build achieved BREEAM excellent</p> <p>Notes</p> <p>The new medical research building is struggling to achieve a BREEAM Excellent rating at present due to time constraints. It is felt that this may add up to 6% to UEA carbon footprint</p>	EMP15	100	31/12/2013
	<p>OBJECTIVE</p> <p>EFFECTIVELY CONTROL THE ENVIRONMENTAL IMPACTS OF CAMPUS DEVELOPMENT AND REFURBISHMENTS</p> <p>Responsible person(s)</p> <p>Andrew Burbidge</p>		
<p>EDUCATION FOR SUSTAINABLE DEVELOPMENT</p> <p>TARGET</p> <p>MAP EXISTING PROVISION AND ESTABLISH DISCIPLINE SPECIFIC 'ROUTE MAPS'</p> <p>PERFORMANCE INDICATOR</p> <p>Research reports and route maps reviewed by Sustainability Board</p> <p>Notes</p> <p>Final report to be completed in January 2013 and reviewed at following Sustainability Board. UEA has been accepted to take part in the Higher Education Academy's Green Academy change programme.</p>	EMP16	95	31/12/2012
	<p>OBJECTIVE</p> <p>EMBED SUSTAINABILITY INTO TEACHING, LEARNING AND RESEARCH</p> <p>Responsible person(s)</p> <p>Stefi Barna</p>		
<p>EMISSIONS TO AIR</p> <p>TARGET</p> <p>REDUCE kgCO2e FROM DIRECT EMISSIONS (SCOPE 1 AND 2) BY 35% (ABSOLUTE EMISSIONS) OVER 1990 LEVELS</p> <p>PERFORMANCE INDICATOR</p> <p>kgCO2e , kgCO2e/s/a</p> <p>Notes</p> <p>2008/9 baseline - 22,998,000 kg CO2e , 1990 baseline - 19,317,000 kg CO2e 2009/10 - 23,574,000 kg CO2e 2010/11 - 23,178,000 kg CO2e 2011/12 - 22,262,000 kg CO2e</p>	EMP17	12	31/07/2015
	<p>OBJECTIVE</p> <p>MINIMISE CONSUMPTION OF ENERGY AND EMISSIONS OF GREENHOUSE GASES</p> <p>Responsible person(s)</p> <p>Richard Bettle</p>		

Impact Area	Target ref	% Complete	Target Date
EMISSIONS TO AIR	EMP18	98	31/07/2015
TARGET	OBJECTIVE		
GENERATE AT LEAST 70% OF ELECTRICITY USED ON THE MAIN CAMPUS AVERAGED OVER EACH ACADEMIC YEAR	MINIMISE CONSUMPTION OF ENERGY AND EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
% energy (electricity and heat) generated on campus	Richard Bettle		
Notes			
2011/12 - 69%			
EMISSIONS TO AIR	EMP19	0	31/07/2015
TARGET	OBJECTIVE		
REDUCE ELECTRICITY USED ON THE MAIN CAMPUS BY 15% COMPARED TO A 2008/09 BASELINE	MINIMISE CONSUMPTION OF ENERGY AND GROSS EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
gigajoules electricity used	Richard Bettle		
Notes			
2008/9 baseline 121,883 GJ 2009/10 - 124,140 GJ 2010/11 - 125,276 GJ 2011/12 - 125,539 GJ			
EMISSIONS TO AIR	EMP20	50	31/07/2015
TARGET	OBJECTIVE		
REDUCE HEAT USED FOR HEATING AND HOT WATER BY 10% COMPARED TO A 2008/09 BASELINE	MINIMISE CONSUMPTION OF ENERGY AND GROSS EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
gigajoules heat used - target needs review to take account of degree days	Richard Bettle		
Notes			
2008/9 baseline 133,384 GJ 2009/10 - 139,187 GJ 2010/11 - 137,183 GJ 2011/12 - 126,672 GJ			
PROCUREMENT	EMP22	0	31/07/2013
TARGET	OBJECTIVE		
A MINIMUM OF 60% OF TOTAL CATERING FOOD SPEND ON SUSTAINABLE PRODUCE	MINIMISE CONSUMPTION OF NON-RENEWABLE AND ENVIRONMENTALLY SENSITIVE RESOURCES BY EMBEDDING INTEGRATED LIFE-CYCLE APPROACHES IN DECISION MAKING		
PERFORMANCE INDICATOR	Responsible person(s)		
% spend on sustainable produce	Richard Baker		
Notes			
Dec 2011 baseline 45% Sept 2012 - 65% spend on East Anglian produce - further data required Continue to monitor and set further target, defining 'sustainable produce'. A range of further Catering specific targets are set within the Sustainable Food Policy and it is essential that the new manager embraces these principles. It should be noted that the food policy is not currently linked to the new Campus Kitchen web pages.			

Impact Area	Target ref	% Complete	Target Date
SOLID WASTE	EMP23	70	31/07/2015
TARGET	OBJECTIVE		
70% LANDFILL DIVERSION OF UEA WASTE (excluding construction waste) OVER 2009/10 LEVELS	MINIMISE THE PRODUCTION OF WASTE THROUGH REDUCTION, REUSE AND RECYCLING		
PERFORMANCE INDICATOR	Responsible person(s)		
% diverted, (tonnes to landfill)	Andrew Watts		
Notes			
2008/9 baseline 30% (1014 tonnes to landfill), milestone targets of 10% per year 2009/10 - 35% (653 tonnes to landfill) 2010/11- 49% (625 tonnes to landfill) 2011/12 - 48% (689 tonnes to landfill)			
SOLID WASTE	EMP24	0	31/07/2015
TARGET	OBJECTIVE		
REDUCE kgCO2e EMISSIONS FROM UEA WASTE (excluding hazardous and construction waste) BY 48% OVER 2010/11 LEVELS	MINIMISE THE PRODUCTION OF WASTE THROUGH REDUCTION, REUSE AND RECYCLING		
PERFORMANCE INDICATOR	Responsible person(s)		
kgCO2e	Andrew Watts		
Notes			
2010/11 baseline - 2,123,000 kg CO2e 2011/12 - data awaited			
SOLID WASTE	EMP25	100	31/07/2015
TARGET	OBJECTIVE		
85% LANDFILL DIVERSION OF UEA CONSTRUCTION WASTE OVER 2009/10 LEVELS	MINIMISE THE PRODUCTION OF WASTE THROUGH REDUCTION, REUSE AND RECYCLING		
PERFORMANCE INDICATOR	Responsible person(s)		
% diverted	Andrew Watts		
Notes			
2009/10 baseline - 68% 2010/11 - 85.5% 2011/12 - 89%			
SOLID WASTE	EMP26	26	31/07/2013
TARGET	OBJECTIVE		
100% OF FOOD WASTE SENT FOR COMPOSTING	MINIMISE THE PRODUCTION OF WASTE THROUGH REDUCTION, REUSE AND RECYCLING		
PERFORMANCE INDICATOR	Responsible person(s)		
% food waste sent for composting (24% food waste assumed in general waste from 2009 waste audit data)	Andrew Watts		
Notes			
2010/11 13.5%, 38.9 tonnes (Aug - Jul) 2011/12 26%, 84.42 tonnes (Aug - Jul)			

Impact Area	Target ref	% Complete	Target Date
TRANSPORT	EMP27	75	31/07/2014
TARGET	OBJECTIVE		
ACHIEVE SINGLE OCCUPANCY CAR JOURNEYS; 44% STAFF AND 5% STUDENTS	MINIMISE CONSUMPTION OF NON-RENEWABLE ENERGY AND EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
modal shift target achieved (modal shift is car travellers changing to rail, bus, walking, cycling, or not making a journey)	Dawn Dewar		
Notes			
1998 baseline; 74% staff and 30% students 2009/10; 53% staff 13% students 2011/12; 33% staff and 9% students single occupancy car journeys, based on one day survey Targets were reviewed and revised in Feb 2013			
TRANSPORT	EMP28	-6.7	31/07/2015
TARGET	OBJECTIVE		
REDUCTION IN FLEET VEHICLE FUEL USE OF 35% OVER 2008/9 LEVELS	MINIMISE CONSUMPTION OF NON-RENEWABLE ENERGY AND EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
% change in litres petrol and diesel used (also develop eco-efficiency metrics e.g. kgCO2e/business kilometre)	Dawn Dewar		
Notes			
2008/09 baseline; 4,731 litres petrol, 12,930 litres diesel 2009/10 ; -15.5% (3,997 litres petrol) -6% (12,097 litres diesel) 2010/11; -5% (4,495 litres petrol) -4% (12,404 litres diesel) 2011/12; -10% (4,217 litres petrol) +13% (14,631 litres diesel) Note: Data incomplete, mileage data required from MACC/ENV/VCO/SCVA			
TRANSPORT	EMP29	50	31/12/2012
TARGET	OBJECTIVE		
ESTABLISH BASELINE CARBON EMISSIONS FOR BUSINESS TRAVEL (paid for by UEA)	MINIMISE CONSUMPTION OF NON-RENEWABLE ENERGY AND EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
Baseline established and reduction targets set (absolute and eco-efficiency metrics e.g. kgCO2e/business kilometre)	Claire Woodcroft		
Notes			
Decision required from ET. A review of data availability by the Purchasing Office found that as individuals book their own travel only very limited data on car hire and travel on buses for which we have contracts is readily available. HEFCE reporting for scope 3 emissions is not mandatory, but an exemplar approach needs to anticipate future requirements. Monitoring options are available and significant reduction opportunities exist in e.g. promoting Eluminate - business case awaited from Purchasing Office			
TRANSPORT	EMP30	50	30/04/2012
TARGET	OBJECTIVE		
ESTABLISH BASELINE CARBON EMISSIONS FOR COMMUTING	MINIMISE CONSUMPTION OF NON-RENEWABLE ENERGY AND EMISSIONS OF GREENHOUSE GASES		
PERFORMANCE INDICATOR	Responsible person(s)		
Baseline established and reduction targets set (absolute and eco-efficiency metrics e.g. kgCO2e/business kilometre)	Dawn Dewar		
Notes			
Decision required from ET. Travel survey on 2nd May 2012 collected data on mileage for motor vehicles only - baseline data awaited. HEFCE reporting for scope 3 emissions is not mandatory, but an exemplar approach needs to anticipate future requirements. Monitoring options are available and significant reduction opportunities are already being implemented.			

Impact Area	Target ref	% Complete	Target Date
EMERGENCY PREPAREDNESS AND RESPONSE	EMP33	0	31/12/2013
TARGET	OBJECTIVE		
ZERO FINES AND SIGNIFICANT ENVIRONMENTAL INCIDENTS	PREVENT POLLUTION AND APPROPRIATELY MANAGE ENVIRONMENTAL RISKS FROM ACCIDENTS, INCIDENTS AND EMERGENCIES		
PERFORMANCE INDICATOR	Responsible person(s)		
No. of significant environmental incidents, Incident reporting records - definition of significant incident in procedure 3.7.1 in Loreus EMS Document Control System	Mike McCormack		
Notes	Andrew Watts		
Significant incidents (in last 12 months): May 2012 - 4 nests destroyed in the reed bed/fen during erection of cattle fencing April 2012 – Lusty Hills slow worm and waxcap habitat destroyed during electric cable excavation by UK Power Network’s contractor. July 2012 – an unknown discharge from the attenuation pond into the Broad Feb 2013 – protected bird nests disturbed by contractors at Norfolk Terrace			
	EMP34	20	31/07/2013
TARGET	OBJECTIVE		
5% OF STAFF ARE CARBONCREW VOLUNTEERS	EMPOWER AND MOTIVATE STAFF TO SUPPORT EMS IMPLEMENTATION		
PERFORMANCE INDICATOR	Responsible person(s)		
% of staff who are active volunteers	Matthew Taylor		
Notes			
6/12/12 CarbonCrew members 461 - 1931 pledges 31/12/12 - 30 staff and 15 student active CarbonCrew members Long term target of 10% of staff by 31 Jul 2015 Pledging targets - 15% of staff, 10% of students have made a pledge on the carbon crew website by Jul 2013 Currently around 2,500 FTE staff, 14,000 students			
	EMP15a	0	31/12/2013
TARGET	OBJECTIVE		
Review BREEAM refurbishment model	EFFECTIVELY CONTROL THE ENVIRONMENTAL IMPACTS OF CAMPUS DEVELOPMENT AND REFURBISHMENTS		
PERFORMANCE INDICATOR	Responsible person(s)		
Review findings reported to Sustainability Board	Andrew Burbidge		
Notes			
Implementation target to be set if model is considered appropriate - if not, aim to review alternative models			
	EMP16a	5	31/12/2013
TARGET	OBJECTIVE		
DEVELOP AND IMPLEMENT A FORMAL ESD STRATEGY	EMBED SUSTAINABILITY INTO TEACHING, LEARNING AND RESEARCH		
PERFORMANCE INDICATOR	Responsible person(s)		
ESD Strategy published	Stefi Barna		
Notes			

Impact Area	Target ref	% Complete	Target Date
<p>TARGET</p> <p>100% OF A4 COPIER PAPER USED HAS A MINIMUM 75% RECYCLED AND 25% FSC (OR EQUIVALENT) CONTENT - target date needed</p> <p>PERFORMANCE INDICATOR</p> <p>percentage of the total consumption (e.g. total virgin paper used – bleached/coated and uncoated and total recycled paper used)</p> <p>Notes</p> <p>Statistics available from Office Depot and Premier Paper (who supply the majority of A4 copier paper) allowing us to track progress. A paper use reduction target is being discussed.</p> <p>The development of eometrics e.g. tonnes per student, number of e-downloads will also be beneficial.</p>	EMP37	0	31/12/2014
	<p>OBJECTIVE</p> <p>MINIMISE CONSUMPTION OF NON-RENEWABLE AND ENVIRONMENTALLY SENSITIVE RESOURCES BY EMBEDDING INTEGRATED LIFE-CYCLE APPROACHES IN DECISION MAKING</p> <p>Responsible person(s)</p> <p>Claire Woodcroft</p>		
<p>TARGET</p> <p>E PROCUREMENT TRANSACTIONS</p> <p>PERFORMANCE INDICATOR</p> <p>no. of e-procurement transactions</p> <p>Notes</p> <p>Target to be agreed with purchasing team</p> <p>25% of orders were raised electronically in 2011/2012 contributing to reducing paper use</p>	EMP38	0	31/12/2013
	<p>OBJECTIVE</p> <p>MINIMISE CONSUMPTION OF NON-RENEWABLE AND ENVIRONMENTALLY SENSITIVE RESOURCES BY EMBEDDING INTEGRATED LIFE-CYCLE APPROACHES IN DECISION MAKING</p> <p>Responsible person(s)</p> <p>Claire Woodcroft</p>		
<p>TARGET</p> <p>REDUCTION OF WATER CONSUMPTION BY 20% PER STUDENT OVER 2008/9 LEVELS</p> <p>PERFORMANCE INDICATOR</p> <p>m3/s/a, % water saving</p> <p>Notes</p> <p>2008/9 baseline; 26.88 m3/s/a</p> <p>2009/10; 25.05 m3/s/a, -6.8%</p> <p>2010/11; 25.45 m3/s/a, -5.3%</p> <p>2011/12; 24.10 m3/s/a, -10.7%</p>	EMP31a	50	31/12/2014
	<p>OBJECTIVE</p> <p>MINIMISE CONSUMPTION OF NON-RENEWABLE AND ENVIRONMENTALLY SENSITIVE RESOURCES BY EMBEDDING INTEGRATED LIFECYCLE APPROACHES IN DECISION MAKING</p> <p>Responsible person(s)</p> <p>Andrew Watts</p>		
<p>TARGET</p> <p>REDUCE CO2e EMISSIONS FROM WATER AND WASTE WATER BY 20%/STUDENT/YEAR OVER 2008/9 LEVELS</p> <p>PERFORMANCE INDICATOR</p> <p>kg CO2e/student/year, % change</p> <p>Notes</p> <p>2008/9 baseline 24.14 kg CO2e/s/a</p> <p>2009/10 22.50 kg CO2e/s/a, -6.8%</p> <p>2010/11 22.84 kg CO2e/s/a, -5.3%</p> <p>2011/12 21.53 kg CO2e/s/a -10.8%</p>	EMP32a	50	31/12/2014
	<p>OBJECTIVE</p> <p>MINIMISE CONSUMPTION OF NON-RENEWABLE ENERGY AND EMISSIONS OF GREENHOUSE GASES</p> <p>Responsible person(s)</p> <p>Andrew Watts</p>		

Impact Area	Target ref	% Complete	Target Date
	EMP39	0	31/12/2013
TARGET	OBJECTIVE		
NO NET LOSS OF SPECIES FOR THE CAMPUS ON AN ON-GOING BASIS	MAINTAIN AND ENHANCE BIODIVERSITY		
PERFORMANCE INDICATOR	Responsible person(s)		
number of species on campus	Iain Barr		
Notes	Martyn Newton		
Information on the status of each species on campus will be taken from our biodiversity audit and monitoring programme			

