

Swansea Environment Strategy



ACTION PLAN 2008-10

SWANSEA ENVIRONMENTAL FORUM

FIRST EDITION (7th May 2008)

INTRODUCTION

This Action Plan should be read in conjunction with the Swansea Environment Strategy: *Time to Change* (published in Sep 2006)

Copies of the Environment Strategy and further copies of this action plan can be obtained from
The Environment Centre, Pier Street, Swansea SA1 1RF tel: (01792) 480200 web: www.environmentcentre.org.uk

SWANSEA ENVIRONMENT STRATEGY

The Swansea Environment Strategy was prepared by Swansea Environmental Forum to provide a framework for protecting and enhancing the natural and built environment across the City and County of Swansea. It builds on the vision and principles of Swansea's Community Plan and seeks to raise the profile of environmental issues and influence decisions that are made about Swansea.

The Strategy presents a '2020' vision, priorities and indicators for each of five key themes:

The Natural Environment and Biodiversity (see page 4)

The Built Environment and Energy Use (see page 8)

Water, Land and Waste Management (see page 12)

Sustainable Transport and Air Quality (see page 16)

Environmental Awareness and Action (see page 19)

ACTION PLAN

This is the second Action Plan developed in support of the Strategy. It follows the same thematic arrangement with actions and indicators listed under each of the 22 priorities presented in the Strategy.

The visions, priorities, actions and indicators set out in the Strategy and this Action Plan were developed and agreed through consultation with a wide range of partners. The successful implementation of the Strategy and Action Plan will depend on the continued engagement of decision-makers, practitioners and communities, and on collaborative working and the forging of new partnerships.

For each action listed in this action plan, a lead body and, where appropriate, key partners have been identified.

A full list of the indicators, and the source of data, is provided on pages 22–23.

REVIEW AND EVALUATION

This Action Plan is very much a working document with a limited lifespan. It is intended that it will be reviewed within two years (end of 2009-10 financial year). However, it is also anticipated that from time to time additional actions and partners will be identified, requiring amended editions to be produced.

PROFORMA

The final page of this document provides a proforma for use by organisations wishing to add their actions to this or future editions of the Action Plan.

GLOSSARY OF ABBREVIATIONS

LEAD BODIES AND PARTNERS

BTCV – British Trust for Conservation Volunteers
CCS – City and County of Swansea
CCS(aonb) – Gower AONB Team
CCS(ca) – Countryside Access Team
CCS(cb) – Corporate Building Services
CCS(cp) – Corporate Property Services
CCS(ed) – Education Directorate
CCS(en) – Environment Directorate
CCS(ho) – Housing Services Unit
CCS(nc) – Nature Conservation Team
CCS(pc) – Pollution Control Division
CCS(pl) – Planning Services
CCS(reg) – Regeneration Directorate
CCS(sdu) – Sustainable Development Unit
CCS(sp) – Strategic Procurement
CCS(tre) – Transport and Engineering Division
CCS(wm) – Waste Management Division
CCP – City Centre Partnership
CCW – Countryside Council for Wales
EAW – Environment Agency Wales
EC – Environment Centre
GGAT – Glamorgan Gwent Archaeological Trust
KWT – Keep Wales Tidy
MARLIN – Marine Life Information Network
MDT – Mumbles Development Trust
RHQ – Rosehill Quarry Group
SBATF – Swansea Bay Alternative Travel Forum
SBP – Swansea Biodiversity Partnership
SCRAP – Swansea Community Recycling Alliance & Partnership
SCWDC – Swansea City Waste Disposal Company
SEEF – Swansea Environmental Education Forum
SEEF(he) – Further, Higher and Adult Education subgroup

SEF – Swansea Environmental Forum
SMU – Swansea Municipal University
SWWITCH – South-West Wales Integrated Transport Consortium
UWS – University of Wales Swansea
WAG – Welsh Assembly Government
WTSWW – Wildlife Trust for South and West Wales

OTHER ABBREVIATIONS

AONB – Area of Outstanding Beauty
BID – Business Improvement District
BREEAM – Buildings Research Establishment Environmental Assessment Method
CAMS – Catchment Abstraction Management Strategy
CPD – continuing professional development
EMS – environmental management system
ESDGC – education for sustainable development and global citizenship
FE – further education
HE – higher education
INSET – in-service training (for teachers)
LBAP – Local Biodiversity Action Plan
LNR – Local Nature Reserve
NEAT – Neighbourhood Environment Action Team
NERC – Natural Environment and Rural Communities Act
RDP – Rural Development Plan
SAC – Special Area of Conservation
SD – sustainable development
SDGC – sustainable development and global citizenship
SEAP – Swansea Energy Action Plan
SINC – Site of Interest for nature Conservation
SPA – Special Protection Area
SPG – Supplementary Planning Guidance
SSSI – Site of Special Scientific Interest
WHQS – Welsh Housing Quality Standard

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

NATURAL ENVIRONMENT AND BIODIVERSITY			
GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<i>NE1: Establish and maintain data on the natural environment and monitor change</i>			
a) Monitor habitats and species identified in the Local Biodiversity Action Plan	i) undertake surveys of inter-tidal climate change indicator species and non-native species ii) undertake county survey of marsh fritillary iii) agree of indicator species to be used for strategy indicator	MARLIN CCW SBP	SBP / CCW
b) Maintain data on geological sites and landscape features using LANDMAP	i) investigate establishing local RIGS (Regionally Important Geological / Geomorphological Sites) group for Swansea	CCS(nc)	
c) Maintain a local database of biological survey information and support the development of the Local Biodiversity Records Centre	i) establish an SLA agreement with SEWBREC (South East Wales Biodiversity Records Centre) ii) increase use of the BARS online recording system	CCS(nc) SBP	SBP CCS(nc)
d) Map and assess the use of green spaces across the county, identifying sites for potential habitat creation and access improvements	i) use CCW Green Toolkit to gather more detail on the use and condition of green spaces in Swansea ii) produce a Green Map for accessible green space in Swansea iii) develop a strategy for improving access to and use of green spaces in Swansea	CCS(nc) CCS(nc) CCS(nc)	CCW Sustainable Swansea CCS(ca) / SBP
e) Map and monitor invasive and non-native species	i) launch web site for the control of Japanese Knotweed and other invasive species	CCS(nc)	

INDICATORS: Trends in a selection of key indicator species

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

<i>NE2: Protect and safeguard our valued natural assets and halt loss of biodiversity</i>			
a) Identify and adopt Sites of Interest for Nature Conservation (SINCs), designate new Local Nature Reserves (LNRs) and consider extending Gower AONB	i) seek the adoption of SINCs as Supplementary Planning Guidance ii) identify and designate additional sites as LNRs and/or extend existing LNRs	CCS(nc) CCS(nc)	MDT
b) Ensure that the features of local Natura2000 sites (SACs, SSSIs, SPAs, Ramsar) are in favourable condition	i) undertake a review of planning consents in SACs ii) identify actions for 50% of local SSSIs (08/9) and all local SSSIs by 2010	CCS(pl) CCW	CCW
c) Encourage organisations and developers to adopt policies and practices to protect biodiversity	i) explore mechanisms and opportunities to provide training and advice to support the implementation of the NERC (Natural Environment and Rural Communities Act) biodiversity duty	CCS(nc)	
d) Implement Swansea's Biodiversity Action Plan and the Gower AONB Management Plan	i) undertake review of LBAP ii) employ LBAP officer iii) undertake review of Gower AONB Management Plan	SBP CCS(nc) CCS(aonb)	CCS(nc) SBP Gower Forum

INDICATORS: Total area of LNRs, AONB and SINCs
 Percentage of SAC and SSSI features in or recovering towards favourable condition
 Percentage loss of important habitats

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

<i>NE3: Maintain and enhance the quality and diversity of the natural environment</i>			
a) Prepare and implement management plans for Local Nature Reserves and other important sites and implement habitat and species action plans to increase the total area of land managed for biodiversity	i) complete and publish SACs management plans ii) update management plans for all LNRs	CCW CCS(nc)	
b) Coordinate an integrated approach to managing Swansea's coastal and marine environments through a Swansea coastal and marine partnership	i) establish a broad local forum or network for coastal and marine management	SBP	CCS(nc)
c) Promote the adoption of quality standards for nature reserves, coastal areas and other publicly accessible wildlife sites and green spaces	i) maintain Green Pennant for Rosehill Quarry ii) seek Green Pennant award for Mumbles Development Trust sites	RHQ MDT	CCS(nc)
d) Encourage sustainable farming practices through participation in agri-environment schemes such as Tir Gofal and the Organic Farming Scheme	i) ease entry to Tir Gofal scheme by awarding extra points to farmers that agree to enhance value of SSSI on their land ii) introduce resource management plans to new and existing Tir Gofal agreements (from Feb 2007), and build in species packages in identified target areas	WAG (Tir Gofal) WAG (Tir Gofal)	
e) Establish principles and mechanisms to ensure that those involved in the promotion, use and enjoyment of the natural environment invest in its management, maintenance and enhancement	i) explore the adoption of a 'percent for wildlife'-type scheme and investigate visitor payback schemes	CCS(nc)	CCS(aonb)

INDICATORS: Percentage area of green space actively managed
 Number of Green Flags and Green Pennants
 Percentage of land managed under agri-environment agreement (by scheme)

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

NE4: Promote awareness, access and enjoyment of the natural environment			
a) Promote and support wildlife gardening, school grounds initiatives, outdoor learning and community-led environmental enhancement schemes	i) develop a strategy for supporting school grounds development and use ii) promote outdoor education and school grounds use to each secondary school and FE college in Swansea iii) promote wildlife gardening and community-led schemes at Swansea Show	SEEF SEEF SEEF	CCS (nc)
b) Provide opportunities for people to become involved in practical conservation work through volunteer tasks	i) develop Gower ranger volunteering programme	CCS(aonb)	
c) Provide interpretative and promotional materials and events to promote awareness of and respect for important species, habitats, and publicly accessible sites	i) complete and publish marine leaflet ii) complete upgrade of beach information panels iii) prepare materials to promote coastal path walks around Llanrhidian and Oxwich Point iv) provide interpretative materials for Cyd Coed woodland sites	SBP CCS(aonb) CCS(ca) CCS(nc)	EC
d) Promote sustainable tourism initiatives, responsible leisure activities and enjoyment of the natural environment	i) implement Swansea's Rural Development Plan (RDP) ii) develop and promote circular walks for Mawr	RDP Partnership RDP Partnership	CCS(aonb) CCS(ca)
e) Increase and improve Rights of Way network	i) make improvements to the coastal path around Gower and develop promoted walks with leaflets and signage ii) finalise, publish and implement the Rights of Way Improvement Plan iii) increase percent of Rights of Way that are <i>easy to use</i> to 65% by 2010	CCS(ca) CCS(ca) CCS(ca)	NT / CCW / WTSWW

INDICATORS: Number of wildlife sites with interpretative information
 Length of easy-to-use footpaths and other rights of way
 Number of people accessing key sites

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

The Built Environment and Energy			
GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
BE1: Improve the quality and attractiveness of the city centre, other settlements, neighbourhoods and streetscapes			
a) Promote high-quality, integrated and mixed-use developments which bring vitality and viability to settlements and improve access to well-managed and well-designed open spaces and pedestrian routes in the city centre and other settlements	<ul style="list-style-type: none"> i) prepare a development brief for St.David's / Paxton Street to include low carbon emission targets ii) prepare Pontardulais master plan iii) develop a Residential Design Guide for smaller developments iv) promote broad input into drafting the Local Development Plan and explore the introduction of a low impact buildings policy for Swansea v) adapt the developers design guide for Supplementary Planning Guidance (SPG) iv) adopt the <i>Manual for Streets</i> as SPG and associated training for officers and councillors 	<ul style="list-style-type: none"> CCS(reg) CCS(reg) CCS(pl) Buildings Forum Buildings Forum CCS(sdu) CCS(pl) 	<ul style="list-style-type: none"> Buildings Forum CCS(pl) Buildings Forum
b) Maximise the use of brownfield sites and reduce the number of disused buildings	i) develop a master plan for the Felindre site	CCS(reg) / WAG	
c) Keep the local environment visually attractive and free from litter, fly posting, dog fouling, graffiti, noise pollution and excessive light	<ul style="list-style-type: none"> i) introduce additional City Centre cleansing staff sponsored by the Business Improvement District ii) make Street Force officers permanent and extend their remit to deal with all types of litter including distribution of flyers from venues iii) work in partnership with city centre rangers to tackle fly posting within the city centre iv) look to expand the NEAT project from 4 to 6 teams to give each zone under street scene a NEAT of its own v) develop and look to extend the Pride in the Communities scheme 	<ul style="list-style-type: none"> CCS(wm) CCS(wm) CCS(wm) CCS(wm) BTCV 	<ul style="list-style-type: none"> CCP / BID CCP CCP CCS(wm) / KWT / SEF

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

d) Support public art schemes	<ul style="list-style-type: none"> i) develop a public art strategy for SA1 ii) provide public art scheme as part of the David Evans site redevelopment iii) incorporate public art schemes as part of the St.David's / Paxton Street redevelopments 	<p>WAG CCS(reg)</p> <p>CCS(reg)</p>	CCS(reg)
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INDICATORS: Percentage of public satisfaction with their local area
Percentage cleanliness at high standard

<i>BE2: Promote sustainable buildings and more efficient use of energy</i>			
a) Encourage the use of sustainable building design and construction in existing and new developments	<ul style="list-style-type: none"> i) ensure the designs of Llwynderw Welsh-Medium Primary School and Penyrheol Comprehensive School include a high standard of energy efficiency and renewable energy ii) develop the Canolfan Gorseinon Centre to BREEAM excellence standard ii) complete a development of apartments providing 64 homes to EcoHomes excellence standard in SA1 	<p>CCS(cbs)</p> <p>CCS(reg)</p> <p>Swansea Housing</p>	<p>CCS(cp) / CCS(ed)</p> <p>Gorseinon Dev. Trust</p>
b) Promote efficient use of energy and encourage the use of alternative technologies and renewable energy in existing and new developments	<ul style="list-style-type: none"> i) facilitate 10% lower carbon emissions private-sector housing at the Pen Plas development site ii) install energy efficient heat and lighting system at Bishops Wood Countryside Centre and prepare interpretative materials iii) incorporate a community-heating scheme at the Older People's Complex (Hazel Court) iv) explore the potential for exploiting waste heat from local energy intensive industries for heating homes v) erection of a wind-turbine at Swansea West Business Park 	<p>CCS(reg)</p> <p>CCS(nc)</p> <p>Family Housing Association Swansea Housing Seren</p>	<p>CCS(sdu)</p> <p>CCS(cp)</p> <p>CCS(sdu)</p> <p>Arena Network</p>
c) Improve policy, guidance and strategic action planning for energy efficiency and renewable energy	<ul style="list-style-type: none"> i) develop SPG for energy efficiency and renewable energy to set minimum targets for reducing carbon emissions ii) undertake an annual review and update of the Swansea Energy Action Plan (SEAP) iii) develop Corporate Technical Design Guidance for energy use in the refurbishment and development of Council buildings 	<p>CCS(pl)</p> <p>CCS(sdu)</p> <p>CCS(cp)</p>	CCS(sdu)

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

d) Increase the amount of locally-generated electricity from renewable sources	i) promote the development of a tidal lagoon in Swansea Bay to produce 60MW of renewable electricity ii) development of a biomass power plant in Swansea	Tidal Electric Bio-E	
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INDICATORS: SAP rating for housing in Swansea
Number of developments meeting Ecohomes or BREEAM standards
CO₂ emissions from council buildings

<i>BE3: Ensure the supply of high-quality, affordable and social housing within mixed, settled and inclusive communities</i>			
a) Provide a high standard of social housing that addresses the needs of the most vulnerable and meets the Wales Housing Quality Standard	i) agree a project plan to bring council housing stock up towards Welsh Housing Quality Standard (WHQS)	CCS(ho)	
b) Ensure that new private housing developments include an appropriate level of affordable housing	i) explore use of software packages to assist in determining level of affordable housing ii) develop SPG on Planning Obligations which incorporates provision for affordable housing ii) complete Waterfront development providing 54 affordable flats (22 buy / 32 rent)	CCS(ho) CCS(pl) Grŵp Gwalia	CCS(ho)
c) Implement the Empty Property Strategy to bring empty homes back into use and repair or demolish problem buildings through enforcement	i) undertake a review of Empty Property Strategy	CCS(en)	
d) Improve housing standards in the private sector			
e) Provide support to home-owners through implementing the Housing Renewal and Adaptation Policy, area renewal schemes and grant schemes			

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

INDICATORS: Proportion of social housing meeting WHQS
 Proportion of private housing left vacant
 Number of homes brought back into use and problem buildings demolished or renovated (since 2000)

BE4: Protect and promote historic buildings and heritage sites			
a) Safeguard historic buildings, sites and monuments ensuring that regeneration schemes and developments are sensitive to an area's character and heritage	i) finalise and bring into use 'at risk register' ii) develop a design guide for Gower (2009) iii) finalise shop front design guide for City Centre (2008) iv) audit Conservation Area appraisals (2010) v) develop an approach to producing a local list of important buildings	CCS(en) CCS(pl) CCS(reg) CCS(en) CCS(en)	
b) Improve access to and interpretation of valued buildings, sites and monuments in both urban and rural areas	i) complete the draft heritage strategy as part of the Tawe Riverside Strategy (by end of 2008) ii) identify sites and character areas and agree a strategic approach for their interpretation iii) publish an interpretation leaflet on Christian Monuments in Gower iv) develop and extend the Open House project and establish a permanent exhibition to interpret the built environment of the City and County and its new developments	CCS(reg) CCS(reg) / GGAT GGAT Sylfaen Cynefin	CCS(en) Gower Society

INDICATORS: Percentage of buildings at each level on the 'Buildings at Risk' register
 Number of venues and visitors in 'Open House' events
 Number of historic buildings, heritage sites and character areas interpreted

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

WATER, LAND AND WASTE MANAGEMENT			
GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<i>WM1: Protect and improve river and ground water</i>			
a) Maintain quality of rivers to at least the levels of year 2000			
b) Identify, investigate and resolve diffuse water pollution including misconnections in sewage and surface water systems	i) develop a programme of measures to deal with identified areas of risk of diffuse pollution ii) reduce pollution in Washinghouse Brook, Clyne Steam and central Swansea catchments	EAW EAW	CCS(pc) / WW CCS(pc) / WW
c) Ensure that farms, industrial estates and building developments are aware of their environmental obligations and are not causing pollution	i) identify and work on a specific industrial business park ii) identify and work with specific farms	EAW EAW	
d) Encourage water efficiency measures in industrial, business and domestic sectors			
e) Encourage the use of alternative drainage systems	i) explore how suitable surface water management systems can be encouraged particularly where the resurfacing of gardens is proposed	CCS(pl)	EAW
f) Implement the local Catchment Abstraction Management Strategy (CAMS) to ensure sustainable use of surface and ground waters			

INDICATORS: Percentage of watercourses achieving good status

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

<i>WM2: Maintain and improve bathing and drinking water quality</i>			
a) Improve monitoring and modelling systems and inform the public on bathing water and drinking water quality issues	i) review sampling points on Swansea Bay ii) adopt and review new modelling system used in predicting bathing water failures	EAW EAW	CCS(pc)
b) Improve water quality in Swansea Bay	i) strengthen and extend existing Bathing Quality Working Group partnership ii) develop partnership project plan and seek funding for improving bathing water quality	EAW EAW	CCS(pc) / WW CCS(pc) / WW
c) Improve regulation of private water supplies	i) develop a private water supply inspection programme that incorporates a risk assessment based approach and a charging scheme in line with new regulations	CCS(pc)	

INDICATORS: Percentage of coastal waters at guideline standard for bathing water
Number of Blue Flags / Green Coast Awards

<i>WM3: Restrict development on flood plains, reduce flood risk and improve flood awareness</i>			
a) Avoid inappropriate development on both river and coastal flood plains to reduce the number of properties at risk	i) explore mechanisms for developing and approving flooding evacuation plans for areas	CCS	EAW
b) Promote greater awareness of flood risk and self-help practices	i) introduce automatic registration on flood warning system with 'opt out' facility, where possible, and offer 'opt in' for those with insufficient data ii) arrange a flood awareness day, in the lower reaches of the Tawe (Summer 2008)	EAW EAW EAW	

INDICATORS: Number of properties at high risk of flooding

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

WM4: Restore contaminated land ensuring minimum risks to the environment and public health			
a) Create a publicly accessible and detailed database and map of contaminated sites	i) complete map of contaminated sites and agree appropriate presentation for public accessibility	CCS(pc)	
b) Encourage safe and sustainable development in the Lower Swansea Valley and docks area			

INDICATORS: Area of contaminated land remaining in Swansea

WM5: Reduce waste going to landfill and increase reuse, recycling and composting			
a) Promote waste minimisation and greater participation in reuse and recycling by householders and commercial organisations	i) improve council's recycling web pages including the introduction recycling games for children and teachers' pages	CCS(wm)	EC
	ii) undertake research on participation levels and capture rates, and mechanisms for increasing both	CCS(wm)	UWS
	iii) increase participation of commercial premises in recycling schemes	CCS(wm)	
	iv) develop the schools recycling award scheme	EC	CCS(wm)
	v) launch and promote <i>Cylch Capacity Building Fund</i> within Swansea to provide support for social enterprises involved in waste management activities	Cylch	SCRAP / Waste Forum
	vi) explore the potential for developing plastic bag free schemes in Mumbles, Swansea Market and across Swansea	CCS(wm) / Waste Forum	Sustainable Swansea

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

b) Increase the range of materials collected through kerbside collection recycling schemes, civic amenity sites and community reuse projects	i) expand the kerbside collection of kitchen /green waste to up to 92,000 properties by May 2009 ii) extend kerbside collection of kitchen waste to weekly basis iii) supply and deliver home composting units to up to 8,000 outlying and difficult to access properties iii) introduce the kerbside collection of cardboard to 37,000 properties from June 2008 iv) introduce the kerbside collection of plastics and textiles to 35,000 properties by end of 2009 v) increase the proportion of material at civic amenity sites that is recycled or composted to over 50% by 2010	CCS(wm) CCS(wm) CCS(wm) CCS(wm) CCS(wm) CCS(wm)	SCWDC
c) Reduce fly tipping and illegal waste disposal			

INDICATORS: Percentage trade waste recycled
 Average household waste arising / municipal waste arisings
 Percentage of municipal waste recycled or composted
 Percentage of waste at civic amenity sites that is recycled
 Amount of material reused
 Number of fly tipping incidents

<i>WM6: Provide and develop suitable sites and sustainable technologies for dealing with waste</i>			
a) Develop local / regional disposal and recycling facilities to minimise transport of waste	i) develop <i>Regional Reuse & Recycling Hub</i> that will support reuse, repair and recycling activities in the Swansea area	Cylch	CCS(wm) / SCRAP
b) Promote provision of appropriate recycling facilities in new developments			
c) Minimise the impact of existing and new waste management facilities	i) implement new environmental permitting regulations	EAW	

INDICATORS: none

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

SUSTAINABLE TRANSPORT AND AIR QUALITY			
GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<i>ST1: Promote more sustainable forms of travel and transport</i>			
a) Support increased use of public transport	i) complete infrastructure works for Metro enabling the service to start in Spring 2009 ii) secure funding for redevelopment of Swansea bus station iv) increase participation in Swansea Bay Alternative Travel Forum (SBATF)	CCS(tre) CCS(tre) SBATF	
b) Support increased walking and cycling	i) initiate and progress Connect 2 cycle paths work in Clydach area and complete Penclawdd-Gowerton cycle track ii) publish revised cycle map for Swansea iii) redevelop cycling and walking website iv) install cycle parking facilities at council-owned public car parks	Sustrans Sustrans CCS(tre) CCS(tre) CCS(tre)	CCS(tre)
c) Support an increase in park and ride use	i) complete Landore P&R express route ii) acquire land and develop fourth P&R in west of Swansea	CCS(tre) CCS(tre)	
d) Support an increase in car sharing	i) promote private car sharing schemes with key public sector employers	SWWITCH	CCS(tre)
e) Explore ways to encourage more sustainable distribution and promote local procurement	i) finalise Sustainable Procurement Action Plan	CCS(sp)	CCS(sdu) / Value Wales
f) Promote use of public transport, walking and cycling to visitors	i) introduce Swansea Bay Public Transport Tourist Ticket for local bus and train travel	BayTrans	CCS(tre) / CCW

INDICATORS: Modal split on key routes into Swansea
 Number of cyclists using Celtic Trail
 Number using park and ride facilities

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

ST2: Improve access to services, workplaces and community facilities			
a) Improve analysis and modelling of transport and accessibility and ensure all developments include local services, access to public transport, cycle routes and footpaths	i) make greater use of the accessibility software, <i>Accession</i> , to inform and influence transport planning decisions and improve accessibility to services ii) provide a baseline accessibility index for Swansea iii) explore the use of connectivity radar diagrams to inform planning and accessibility improvements	CCS(tre) CCS(tre) CCS(tre)	
b) Promote the production and use of effective travel plans	i) deliver travel champions training ii) organise annual travel planning conference	SWWITCH SWWITCH	CCS(tre) CCS(tre)
c) Make greener road fuels more accessible and available	i) Use 5% biodiesel for majority of CCS fleet and promote access to other local bodies to CCS's pumps	CCS(tre)	CCS(sdu)

INDICATORS: Number of travel plans produced by local organisations and schools
Number of organisations and schools with local travel plan awards
Accessibility index for Swansea

ST3: Improve air quality and reduce air pollution			
a) Work towards exceeding National Standards for air quality		CCS(pc)	
b) Develop a software-driven traffic management system	i) secure funding for roadside signs	CCS(pc)	CCS(tre)

INDICATORS: Number of days when air pollution is moderate or higher
Number of roadside NO₂ monitoring sites exceeding annual mean limit
Number of days when PM2.5s exceed daily limits
Number of PM10 monitoring sites exceeding annual mean limit

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

<i>ST4: Improve air quality monitoring and reporting mechanisms</i>			
a) Increase monitoring for small particles and other pollutants	i) re-establish regular monitoring of background radiation	CCS(pc)	ABM University NHS Trust
b) Build and maintain a detailed emissions database and modelling system	i) validate the Nowcaster system	CCS(pc)	
c) Develop pollution alerting systems	i) establish mechanism for alerting media of poor air quality	CCS(pc)	

INDICATORS: None

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

ENVIRONMENTAL AWARENESS AND ACTION			
GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<i>EA1: Encourage and support good practice in ESDGC in local education establishments</i>			
a) Encourage wider school participation in environmental management systems such as Eco-Schools and local SD schemes	i) develop new local ESDGC schools pack for teachers	SEEF	EC
b) Develop a coordinated approach to supporting and promoting field studies and school/college grounds development, and increase use of local wildlife sites/projects	i) develop a strategic plan for supporting school grounds development and use	CCS(nc)	SEEF
c) Provide support for teachers and lecturers through training and information provision and increase the number of schools and education providers working with SEEF	i) undertake a review of ESDGC in local secondary schools and FE colleges and develop a framework for improving their engagement with SEEF and ESDGC	SEEF	EC
	ii) organise a teachers' conference to launch the new local ESDGC schools pack and raise awareness of the <i>Common Understanding</i> document	SEEF	EC
	iii) develop Green Boxes and promote new loan system	SEEF	
	iv) establish a new SEEF website	SEEF	
d) Improve the range of opportunities for adult education, training and research linked to sustainable development	i) update and revise the course directory ii) establish a South West Wales Environmental Research Forum iii) undertake an audit of ESDGC provision in local FE and HE establishments	SEEF(he) UWS UWS / SMU Gorseinon College	SEEF(he)
e) Support schools, colleges and universities to develop and implement policies for sustainable development			

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

- INDICATORS:**
- Percentage of schools with Eco-School Green Flag
 - Percentage of schools at other Eco-School levels
 - Percentage of schools in local award schemes
 - Number of supported school visits to key sites and facilities
 - Number of ESDGC training sessions for school staff
 - Number of school staff attending ESDGC training sessions

<i>EA2: Actively promote sustainable living</i>			
a) Improve and promote access to good quality information, guidance and support on environmental events, issues and good practice	i) develop the Environment Centre website ii) establish a new SEF website and promotional materials iii) establish a new SEEF website	EC SEF SEEF	EC
b) Provide a programme of environmental events and activities for people of all ages and increase the number of, and attendance at, these events	i) explore the reintroduction of the Green Team youth project ii) provide a natural building skills programme for disaffected young people (144 beneficiaries over three years)	SEEF Down to Earth	
c) Improve the range of opportunities for informal education and training linked to sustainable development	i) provide training in informal ESDGC methodologies for youth workers, teachers and others (45 beneficiaries per year) ii) provide free training in traditional and natural building for disadvantaged adults (200 beneficiaries)	Down to Earth Down to Earth	

- INDICATORS:** Number of hits on Sustainable Swansea and EC websites

<i>EA3: Promote active citizenship and increased participation in decision-making processes</i>			
a) Develop training opportunities related to community engagement, active citizenship and governance			

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

b) Encourage and support active participation and volunteering in environmental and SD projects	i) explore the development of a youth volunteering scheme on the Sustainability Trail ii) develop Gower ranger volunteering programme	Sustainable Swansea CCS(aonb)	
c) Support and strengthen partnership initiatives and voluntary environmental organisations	i) undertake a comprehensive review of the aims, priorities and activities of SEF	SEF	

INDICATORS: Number of volunteers / volunteer hours in environmental projects

<i>EA4: Encourage good environmental practice amongst organisations and businesses</i>			
a) Encourage organisations to implement environment and/or SD policies	i) complete council's Sustainable Development Framework and imbed the council's SD policy	CCS(sdu)	
b) Encourage participation in Green Dragon Awards and other environmental management schemes	i) achieve Green Dragon Award for Gorseinon College	Gorseinon College	
c) Encourage organisations to provide SD training for staff as part of induction or CPD programmes and promote SD champion schemes in organisations and communities			
d) Promote good practice by developing and maintaining the Swansea Sustainability Trail, the <i>Swansea Green Map</i> and Sustainable Swansea Awards	i) coordinate the third Sustainable Swansea Awards ii) support the development of additional Green Maps iii) explore the development of a youth volunteering scheme on the Sustainability Trail	Sustainable Swansea Sustainable Swansea Sustainable Swansea	CCS(sdu) CCS(nc)

INDICATORS: Number of Green Dragon Awards (level 2+)

FULL LIST OF INDICATORS

PRIORITY	INDICATOR	SOURCE BODY
NE1	Trends in a selection of key indicator species	SBP
NE2	Total area of LNRs, AONB and SINC Percentage of SAC and SSSI features in or recovering towards favourable condition Percentage loss of important habitats	CCS (env) CCW CCS (env)
NE3	Percentage area of green space actively managed Number of Green Flags and Green Pennants Percentage of land managed under agri-environment agreement (by scheme)	CCS (env) CT / KWT WAG (Tir Gofal)
NE4	Number of wildlife sites with interpretative information Length of easy-to-use footpaths and other rights of way Number of people accessing a selection of key sites	SBP CCS (ca) CCS (env) / NT / CCW
BE1	Percentage of public satisfaction with their local area Percentage cleanliness at high standard	CCS (psp) KWT / CCS (wm)
BE2	SAP rating for housing in Swansea Number of developments meeting Ecohomes or BREEAM standards CO2 emissions in CCS corporate buildings	CCS (eac) BRE CCS (energy)
BE3	Proportion of social housing meeting WHQS Proportion of private housing left vacant Number of homes brought back into use and problem buildings demolished or renovated (since 2000)	CCS (ho) / RSLs CCS (env) CCS (env)
BE4	Percentage of buildings at each level on the 'Buildings at Risk' register Number of venues and visitors in 'Open House' events Number of historic buildings, heritage sites and character areas interpreted	CCS (env) Sylfaen Cynefin CCS (env/reg) / GGAT
WM1	Percentage of watercourses achieving good status	EAW
WM2	Percentage of coastal waters at guideline standard for bathing water Number of Blue Flags / Green Coast Awards	EAW KWT

Swansea Environment Strategy Action Plan (2008-10) – 07/05/08

WM3	Number of properties at high risk of flooding	EAW
WM4	Area of contaminated land remaining in Swansea	CCS (pc)
WM5	Percentage trade waste recycled Average household waste arising / Municipal waste arisings Percentage of municipal waste recycled or composted Percentage of waste at civic amenity sites that is recycled Amount of material reused Number of fly tipping incidents	CCS (wm) CCS (wm) CCS (wm) CCS (wm) SCRAP / SWDC EAW
ST1	Modal split on key routes into Swansea Number of cyclists using Celtic Trail Number using park and ride facilities	CCS (tre) Sustrans CCS (tre)
ST2	Number of travel plans produced by local organisations and schools Number of organisations and schools with local travel plan awards Accessibility index for Swansea	CCS (tre) / SWWITCH SWWITCH CCS (tre)
ST3	Number of days when air pollution is moderate or higher Number of roadside NO ₂ monitoring sites exceeding annual mean limit Number of days when PM _{2.5} s exceed daily limits Number of PM ₁₀ monitoring sites exceeding annual mean limit	CCS (pc) CCS (pc) CCS (pc) CCS (pc)
EA1	Percentage of schools with Eco-School Green Flag Percentage of schools at other Eco-School levels Percentage of schools in local award schemes Number of supported schools visits to key sites and facilities Number of ESDGC training sessions for school staff Number of school staff attending ESDGC training sessions	Keep Wales Tidy Keep Wales Tidy Environment Centre SEEF SEEF SEEF
EA2	Number of hits on Sustainable Swansea and EC websites	Sustainable Swansea / Environment Centre
EA3	Number of volunteers / volunteer hours in environmental projects	SEEF
EA4	Number of Green Dragon Awards (level 2+)	Arena Network

SWANSEA ENVIRONMENT STRATEGY ACTION PLAN PROFORMA

If you would like actions undertaken by your organisation to be included in future drafts of this Action Plan, please complete this proforma, outlining the actions and indicating which priorities they will contribute to achieving. Alternatively, the proforma can be completed online at www.environmentcentre.org.uk and emailed to sefstrategy@environmentcentre.org.uk.

Organisation: _____ Contact Name: _____

Telephone: _____ Email: _____

<i>(please state relevant priority)</i>			
GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<i>(please state relevant priority)</i>			

Please send completed proforma(s) to Swansea Environmental Forum, c/o The Environment Centre, Pier Street, Swansea SA1 1RY
 For further information, contact the Environment Centre on (01792) 480200 or visit the website www.environmentcentre.org.uk