

# Swansea Environment Strategy



## **ACTION PLAN 2014-16**

SWANSEA ENVIRONMENTAL FORUM

1ST EDITION (November 2014)

# INTRODUCTION

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

Copies of the Swansea Environment Strategy and previous action plans and reviews can be downloaded from [www.swanseaenvironmentalforum.net](http://www.swanseaenvironmentalforum.net)

## SWANSEA ENVIRONMENT STRATEGY

The Swansea Environment Strategy was prepared and published by Swansea Environmental Forum to provide a framework for protecting and enhancing the natural and built environment across the City and County of Swansea.

The Strategy presents a '2020' vision for each of five key themes with strategic priorities and a set of indicators to assess progress. These visions, priorities and indicators were developed and agreed through consultation with a wide range of partners.

**The Natural Environment and Biodiversity**

**The Built Environment and Energy Use**

**Water, Land and Waste Management**

**Sustainable Transport and Air Quality**

**Environmental Awareness and Action**

## ACTION PLAN

This is the fifth biennial Action Plan developed in support of the Swansea Environment Strategy. It follows the same thematic arrangement as the Strategy itself with actions and indicators listed under each of the strategic priorities. Many of the general actions were agreed through consultation when the first Action Plan was prepared in 2006. The more specific actions are collated from a wide range of partners.

The successful implementation of the Strategy and Action Plan depends on the continued engagement of decision-makers, practitioners and communities, and often on collaborative working. For each action listed in this action plan, a lead body has been identified and, where appropriate, key collaborating partners.

## REVIEW AND EVALUATION

This Action Plan is very much a working document with a limited lifespan. It is intended that it will next be reviewed and evaluated in Spring 2016. However, it is also anticipated that from time to time additional actions and partners may be identified, requiring amended editions to be produced.

## **GLOSSARY OF ABBREVIATIONS**

### **LEAD BODIES AND PARTNERS**

ABMU – Abertawe Bro Morgannwg University Health Board

CCS – City and County of Swansea:

CCS(cbp) – Corporate Building and Property Services

CCS(cfg) – Community Food and Growing Team

CCS(ct) – Culture and Tourism

CCS(ed) – Education Department

CCS(ep) – Environmental Protection

CCS(aonb) – Gower AONB Team

CCS(hra) – Housing Renewal and Adaptations

CCS(ho) – Housing Services

CCS(hw) – Highways

CCS(nc) – Nature Conservation Team

CCS(pl) – Planning Services

CCS(pc) – Pollution Control Division

CCS(reg) – Regeneration Directorate

CCS(rst) – Road Safety Team

CCS(tr) – Transportation Division

CCS(wm) – Waste Management Division

D2E – Down to Earth Project

EC – Environment Centre

GGAT – Glamorgan Gwent Archaeological Trust

MDT – Mumbles Development Trust

NRW – Natural Resources Wales

PHW – Public Health Wales

RSPCA – Royal Society for the Protection of Animals

SBP – Swansea Biodiversity Partnership

SCF – Swansea Community Farm

SEEF – Swansea Environmental Education Forum

SEF – Swansea Environmental Forum

UWTSD – University of Wales Trinity St.David

SRDP – Swansea Rural Development Partnership

SU – Swansea University

WG – Welsh Government

WT – wildlife trust

WW – Welsh Water

### **OTHER ABBREVIATIONS**

AONB – Area of Outstanding Beauty

BREEAM – BRE Environmental Assessment Method

CAMS – Catchment Abstraction Management Strategy

CPD – continuing professional development

ESDGC – education for sustainable development and global citizenship

LBAP – Local Biodiversity Action Plan

LDP – Local Development Plan

LNR – Local Nature Reserve

RDP – Rural Development Plan

SINC – Site of Interest for nature Conservation

SSSI – Site of Special Scientific Interest

SAC – Special Area of Conservation

SD – sustainable development

<b>NATURAL ENVIRONMENT AND BIODIVERSITY</b>			
<b>GENERAL ACTIONS</b>	<b>SPECIFIC/ADDITIONAL ACTIONS</b>	<b>LEAD BODY</b>	<b>PARTNERS</b>
<b><i>NE1: Establish and maintain data on the natural environment and monitor actions and change</i></b>			
a) Monitor habitats and species identified in the Local Biodiversity Action Plan	i) Complete a climate change vulnerability assessment for key habitats and species of the AONB. ii) Explore suitable indicators for biodiversity to be used to support Environment Strategy and Single Integrated Plan. iii) Undertake a survey of ancient woodland in Gower. iv) Undertake i-Tree survey for Tawe catchment area.	CCS(aonb) SBP CCS(nc) NRW / CCS(nc)	
b) Maintain data on geological sites and landscape features	i) Complete a climate change vulnerability assessments for key geological features and for key landscape/seascape features and views in the AONB. ii) Develop and implement a landscape character and photographic monitoring programme to record and assess landscape change in the AONB. iii) Develop and review RIGS evidence base and identify RIGS across the county.	CCS(aonb) CCS(aonb) CCS(nc)	CCS(aonb) / SU / NRW
c) Maintain a local database of biological survey information and support the Local Biodiversity Records Centre	i) Explore funding opportunities to establish a service level agreement with SEWBREC (South East Wales Biodiversity Records Centre). ii) Load actions from reviewed LBAP onto new BARS website.	CCS(nc) CCS(nc)	SBP
d) Map and assess the use of green spaces across the county, identifying sites for potential habitat creation and access improvements	i) Undertake an ecosystems services mapping exercise in the AONB. ii) Prepare 'Wild about your Ward' packs - natural resource ward profiles – initially focusing on Communities First areas and then rolling-out to all wards. iii) Continue to develop ecosystems mapping across Swansea.	CCS(aonb) CCS(nc) CCS(nc)	
e) Map and monitor invasive and non-native species	i) Launch website for invasive species. ii) Continue trials of natural control of Japanese Knotweed.	CCS(nc) DEFRA, WG	CCS(nc)

<b><i>NE2: Protect and safeguard our valued natural assets and halt loss of biodiversity</i></b>			
a) Identify and adopt Sites of Interest for Nature Conservation (SINCs), designate new Local Nature Reserves (LNRs) and consider extending Gower AONB	i) identify and designate additional sites as LNRs.	CCS(nc)	
b) Ensure that the features of local Natura2000 sites (SACs, SSSIs, SPAs, Ramsar) are in favourable condition	i) Consult on and adopt Swansea Bay Management Plan. ii) Complete at least 4 actions in the CCW Special Sites Project. iii) Complete SAC core management plan reviews. iv) Complete prioritised improvement plans for SACs.	CCS(nc) NRW NRW NRW	
c) Encourage organisations and developers to adopt policies and practices to protect biodiversity	i) Develop a Green Infrastructure Strategy.	CCS(nc)	CCS(pl)
d) Implement Swansea's Biodiversity Action Plan, Gower AONB Management Plan and other plans and strategies	i) Consult on draft Gower AONB Management Plan (Summer 2014) and publish final version (end of 2014).	CCS(aonb)	

<b><i>NE3: Maintain and enhance the quality and diversity of the natural environment</i></b>			
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) Plant more fruit trees in Castle Woods Community Orchard, install benches and signage in castle wood area and involve Gower College students in management of part of the site. ii) Secure funding for maintenance and improvement work in underhill park. iii) Improve purple moor grass fen habitat at the Llys Nini site iv) Create wetland area with viewing points at the Llys Nini site v) Establish a voluntary Conservation Forum by January 2015, to advise and develop an improved appreciation of the wildlife of Penllergare Valley Woods and to suggest appropriate management policies and actions.	MDT  MDT  RSPCA Llys Nini RSPCA Llys Nini Penllergare Trust	

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	vi) Fence off the Middle park area of Penllergare Valley Woods and restore to managed grazed species rich grassland / pasture woodland by end of 2015.	Penllergare Trust	
b) Coordinate an integrated approach to managing Swansea's coastal and marine environments			SBP
c) Promote the adoption of quality standards for nature reserves, coastal areas and other publicly accessible wildlife sites and green spaces	i) Retain Green Pennant Award for Oystermouth Castle Woods. ii) Increase the number of parks in Swansea with Green Flag status from five to six in 2014.	MDT CCS(ct)	
d) Encourage sustainable farming practices through participation in agri-environment schemes			
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			
f) Promote and implement the ecosystems services approach to managing and protecting natural resources	i) Undertake an ecosystems services mapping exercise in the AONB. ii) Prepare 'Wild about your Ward' packs - natural resource ward profiles – initially focusing on Communities First areas and then rolling-out to all wards. iii) Trial natural resource planning through the Tawe Ecosystem pilot scheme. iv) Develop and deliver community-engagement projects to support an ecosystems approach for the Tawe catchment and Swansea Bay area.	CCS(aonb)  CCS(nc)  NRW  SEF	SEF / CCS(nc)    NRW / CCS(nc)

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<b>NE4: Promote awareness, access and enjoyment of the natural environment</b>			
a) Promote and support wildlife gardening, school grounds initiatives, outdoor learning and community-led environmental enhancement schemes	i) Further develop Welsh heritage apple orchard at Llys Nini. ii) Support community growing schemes through the Swansea Community Growing Network and Grow Local Swansea grants. iii) Organise a programme of out-of-classroom learning experiences for primary school pupils in the urban Target Areas.	RSPCA Llys Nini CCS(cfg)  CCS(nc)	
b) Provide opportunities for people to become involved in practical conservation work through volunteer tasks	i) Continue to organise volunteer activities such as woodland management, litter picks, beach cleans and guided walks. ii) Achieve the volunteer development plan 3-years target of 10,000 volunteer hours in Penllergare Valley Woods by end of March 2015.	MDT  Penllergare Trust	
c) Provide interpretative and promotional materials and events to promote awareness of and respect for important species, habitats, and publicly accessible sites	i) Produce and publish annual environmental events leaflet. ii) Produce wildlife site leaflets and interpretation panels for the Hillside Corridor, Garth Farm, Port Eynon and Pwll Du. iii) Install new interpretation and visitor information panels throughout the Swansea Community Farm site and buildings, and develop a series of murals and a sculpture trail.	CCS(nc) CCS(nc)  SCF	
d) Promote sustainable tourism initiatives, responsible leisure activities and enjoyment of the natural environment	i) Finalise the Sustainable Tourism Strategy and implement relevant recommendations and actions. ii) Finalise interpretive leaflets explaining geology, landscape, natural resources and changes in environment / climate along 4 trails in north Swansea and 6 in Gower (by the end of 2014). iii) Organise a countryside festival as part of the Countryside Connections project to raise awareness and appreciation of the natural environment of rural Swansea. iv) Initiate a three-year programme to raise awareness of our natural heritage and help communities make better connections to it, starting with Celebrating our Natural Heritage from April 2015. v) Develop a comprehensive programme of events and activities and implement a substantial business development, marketing and fundraising plan for Penllergare Valley Woods by end of March 2015.	CCS(aonb)  SU  CCS(nc)  EC  Penllergare Trust	GLP / NT / WT / CCS(aonb)

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e) Improve access to wildlife sites and increase and improve the Rights of Way network	i) Develop boardwalks to enable access into wet woodland areas at Llys Nini.	RSPCA Llys Nini	
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## The Built Environment and Energy

GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<b><i>BE1: Improve the quality and attractiveness of the city centre, other settlements, neighbourhoods and streetscapes</i></b>			
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	i) Complete the first two phases of the European Boulevard scheme between Princess Way and the Tawe Bridges (by November 2014). ii) Review the City Centre Framework and relaunch in Feb 2015. iii) Organise a major conference on the future of Swansea City Centre (October 2014). iv) Develop a mixed-use regeneration scheme in High Street (Urban Quarter) with three commercial units built to the highest possible BREEAM standards and two blocks of 28 socially rented flats to Code for Sustainable Homes Level 3+. v) Build extra storey and convert two existing floors above Potter's Wheel, Kingsway to provide 21 affordably rented apartments to Code for Sustainable Homes Level 3+.	CCS(reg)  CCS(reg) CCS(reg)  Coastal Housing  Coastal Housing	WG  WG
b) Maximise the use of brownfield sites and reduce the number of disused buildings	i) Complete landscaping work and develop a marketing strategy for the Felindre Strategic Business Park site.	CCS(reg)	WG
c) Keep the local environment visually attractive and free from litter, fly posting, dog fouling, graffiti, noise pollution and excessive light	i) Continue to organise volunteer activities such as woodland management, litter picks, beach cleans and guided walks. ii) Provide a robust evidence base to influence policies for protecting the tranquillity and dark skies of the AONB.	MDT  CCS(aonb)	CCS(pl)
d) Support public art schemes	i) Install public art features along new Boulevard scheme.	CCS(reg)	

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<p>e) Prepare the Local Development Plan to provide a vision for land use planning and promote sustainable development</p>	<p>i) Collect further evidence to inform the development of the LDP, including a Strategic Transport Assessment, Physical Infrastructure Assessment, Social Infrastructure Assessment and a Special Landscape Areas Assessment.                      ii) Assess viability of introducing Community Infrastructure Levy.                      iii) Continue to apply Sustainability Appraisal, Strategic Environmental Assessment, Habitats Regulations Assessment, Health Impact Assessment and Equalities Impact Assessment at Deposit Stage.                      iv) Adopt final version of Preferred Strategy (mid 2014).                      v) Produce and consult on skeleton Deposit Plan (late 2014).                      vi) Place LDP on deposit (late 2015).</p>	<p>CCS(pl)  CCS(pl) CCS(pl)  CCS(pl) CCS(pl) CCS(pl)</p>	
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**BE2: Promote sustainable buildings and more efficient use of energy**

<p>a) Encourage the use of sustainable building design and construction in existing and new developments</p>	<p>i) Complete Morriston School redevelopment and Burlais and Gowerton Schools construction to BREEAM excellent standard.                      ii) Complete a new sustainability training centre to BREEAM Excellent rating at Little Bryn Gwyn site.</p>	<p>CCS(ed)  D2E</p>	
<p>b) Promote efficient use of energy and encourage the use of alternative technologies and renewable energy in existing and new developments</p>	<p>i) Complete Lon Y Felin solar thermal scheme.                      ii) Secure Arbed/ECO funding to implement energy efficiency measures for cross-tenure in suitable areas of Swansea.                      iii) Complete survey and phase 1 works in Sandfields Renewal Area (by March 2015).                      iv) Reduce absolute carbon emissions at Swansea University by at least 35% by 2020/21 based on 2010/11 baseline.                      v) Obtain the Energy Management System Standard ISO 50001 by October 2015.                      vi) Fit LED lighting in areas at Gower College Swansea sites.                      vii) Complete a 3-year lighting renewal programme utilising LED technology.                      viii) Implement a programme within Council buildings to reduce CO<sup>2</sup> emissions by a minimum 3% per annum and by 30% over life of the programme.                      ix) Facilitate a further fridge/freezer swap as part of the Eastside</p>	<p>CCS(hra) CCS(hra)  CCS(hra)  SU SU  GCS CCS(hw)  CCS(cps)  EC</p>	

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	Energy Scheme (at least £30,000 in 2014/15).		
c) Improve policy, guidance and strategic action planning for energy efficiency and renewable energy	i) Introduce a Carbon Management Plan (CMP) and appoint an energy manager from savings identified (2014/15). ii) Support the development of the Low Carbon Swansea Project and Partnership.	UWTSD SEF	
d) Increase the amount of locally-generated electricity from renewable sources	i) Develop solar PV farm at Llys Nini site. ii) Fit PVs to the new teaching block at Gorseinon campus. iii) Seek community funding for a large scale PV array on the Swansea Community Farm education/training building.	RSPCA Llys Nini GCS SCF	

**BE3: Ensure the supply of high-quality, affordable and social housing within mixed, settled and inclusive communities**

a) Provide a high standard of social housing that addresses the needs of the most vulnerable and meets the Wales Housing Quality Standard	i) Complete a mix of social rent, intermediate rent, low cost home ownership options and supported housing through developments across Swansea (approx. 340 units in two years). ii) Complete 43 apartments for older people in Hazel Court North development to Code 3+ and connected to existing energy centre.	Grwp Gwalia Family Housing	
b) Encourage new private housing developments to include an appropriate level of affordable housing	i) Ensure delivery of affordable housing on each site to meet the threshold criteria laid out in the LDP, utilising the Local Housing Market Assessment. ii) Maximise delivery of affordable housing through existing funding streams and researching new funding models. iii) Complete development of 14 affordable properties for rent in Scurlage to Code 3+ and with SUDs.	CCS(ho) CCS(ho) Family Housing	
c) Implement the Empty Property Strategy to bring empty homes back into use and repair or demolish problem buildings through enforcement	i) Continue to administer the Houses to Homes scheme to help bring empty properties back into use. ii) Bring 4.19% of long term empty properties (longer than 6 months) which were empty at start of April 2014 back into use (by end of March 2015).	CCS(hra) CCS(ep)	
d) Improve housing standards in the private sector			

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e) Provide support to home-owners through implementing the Housing Renewal and Adaptation Policy, area renewal schemes and grant schemes	i) Complete survey and phase 1 works in Sandfields Renewal Area (by March 2015). ii) Continue to improve private sector homes through Homefix Loans, energy efficiency schemes and disabled adaptations programmes.	CCS(hra) CCS(hra)	
f) Support a strategic cross-tenure approach to housing provision in Swansea	i) Publish Local Housing Strategy 2014-2019 by Autumn 2014.	CCS(ho)	

**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) Complete a climate change vulnerability assessment for archaeology and built heritage of the AONB. ii) Develop supplementary planning guidance for issues affecting the landscape character of the AONB, e.g. renewable energy, caravan/camping, car parking. iii) Seek funding for the further development of the Hafod and Morfa Copperworks site. iv) Finalise the phase 1 restoration of the historic landscape at Penllergare Valley Woods including the upper lake and terraces by end of March 2015. v) Complete the repairs of the Penllergare observatory by end of January 2015. vi) Secure tenure; complete plans and secure funding for the restoration of the walled gardens in Penllergare Valley Woods.	CCS(aonb) CCS(pl) CCS(reg) Penllergare Trust Penllergare Trust Penllergare Trust	CCS(aonb) SU / WG
b) Improve access to and interpretation of valued buildings, sites and monuments in both urban and rural areas	i) Promote the conservation and interpretation of archaeological sites on Gower through Gower Landscape Partnership. ii) Provide information on GGAT website on ten sites and monuments to visit within Swansea. iii) Seek funding for a new building on the Swansea Castle site to house a Tourist Information Centre, café and education room with links to the prison block on the first floor. iv) Secure funding to develop interpretive materials and educational resources for Penllergare Observatory by March 2015.	GGAT GGAT CCS(reg) Penllergare Trust	GLP WG

<b>WATER, LAND AND WASTE MANAGEMENT</b>			
<b>GENERAL ACTIONS</b>	<b>SPECIFIC/ADDITIONAL ACTIONS</b>	<b>LEAD BODY</b>	<b>PARTNERS</b>
<b><i>WM1: Protect and improve river and ground water</i></b>			
a) Ensure that all waterbodies achieve 'good' status under the Water Framework Directive by 2027	i) Maintain the Clearstreams initiative to support awareness-raising and community engagement projects to improve the quality of the water environment for people and wildlife. ii) Explore opportunities to remediate small minewater discharges through community and partnership projects.	NRW  NRW	SEF / WT
b) Identify, investigate and resolve diffuse water pollution including misconnections in sewage and surface water systems	i) Maintain misconnections projects targeting catchments identified through SMART Coasts as influencing water quality in Swansea Bay. ii) Use drainage maps to track down and reduce sources of pollution entering the Tawe.	CCS(pc)  NRW	NRW
c) Ensure that farms, industrial estates and building developments are aware of their environmental obligations and are not causing pollution	i) Continue to target industrial estates, including vehicle washing facilities, to reduce pollution into surface water drains and water courses.	NRW	
d) Encourage water efficiency measures in industrial, business and domestic sectors			
e) Encourage the use of alternative drainage systems			
f) Implement the local Catchment Abstraction Management Strategy (CAMS) to ensure sustainable use of surface and ground waters			

<b>WM2: Maintain and improve bathing and drinking water quality</b>			
a) Improve monitoring and modelling systems and inform the public on bathing water and drinking water quality issues	i) Run modelling system and display information for water quality in Swansea Bay throughout the 2014 bathing season. ii) Recalibrate the model using actual figures and further field work. iii) Explore the introduction of an electronic signage system to display water quality information for Swansea Bay using an hourly model.	CCS(pc) CCS(pc) CCS(pc)	
b) Improve water quality in Swansea Bay	i) Ensure <i>asset management programme</i> for sewage system improvements to ensure improvements to bathing water quality.	WW	
c) Improve regulation of private water supplies	i) Improve all shared private water supplies by 2017.	CCS(pc)	

<b>WM3: Restrict development on flood plains, reduce flood risk and improve flood awareness</b>			
a) Avoid inappropriate development on both river and coastal flood plains to reduce the number of properties at risk			
b) Promote greater understanding and awareness of flood risk from rivers, the sea, surface and ground water and the risks of coastal erosion	i) Produce a Flood Risk Management Plan (statutory duty under the Flood and Water Management Act 2010) by June 2015 for submission to Europe (by December 2015). ii) Complete and collate critical infrastructure data to assist with the response to flood and other emergency incidents.	CCS(cbp) South Wales Resilience Forum	CCS(cbp)
c) Encourage and support actions to reduce flood risk			

<b>WM4: Restore contaminated land ensuring minimum risks to the environment and public health</b>			
a) Ensure that information on contaminated land is maintained and made publicly accessible			
b) Encourage safe and sustainable development in the Lower Swansea Valley and docks area			

<b>WM5: Reduce waste going to landfill and increase reuse, recycling and composting</b>			
a) Promote waste minimisation and greater participation in reuse and recycling by householders and commercial organisations	i) Promote waste reduction, reuse and greater recycling participation through participation surveys, road shows, door-knocking, social media and extensive advertising. ii) Consider promoting a further reduction in black bags permitted e.g. 'keep it to 2' campaign. iii) Consider the introduction of reusable bags for kerbside collection of plastic. iv) Seek a significant increase in trade waste that is recycled to match levels of domestic waste recycling. v) Achieve zero waste to landfill via Swansea University's waste contract by 2015/16.	CCS(wm)  CCS(wm)  CCS(wm)  CCS(wm)  SU	
b) Increase the range of materials collected through kerbside collection recycling schemes, civic amenity sites and community reuse projects	i) Develop additional hand sorting facility at the Baling Plant. ii) Introduce a ban on food waste in black bags in Council's commercial waste service. iii) Complete rebranding of Household Waste Recycling Centres. iv) Consider move to weekly collection of recyclable materials.	CCS(wm) CCS(wm)  CCS(wm) CCS(wm)	
c) Reduce fly tipping and illegal waste disposal			

<b><i>WM6: Provide and develop suitable sites and sustainable technologies for dealing with waste</i></b>			
a) Develop local / regional disposal and recycling facilities to minimise transport of waste	i) Facilitate regional procurement of an anaerobic digestion facility to treat kitchen waste and a regional facility to treat residual waste.	CCS(wm)	Regional Sustainable Waste Management Project Board
b) Promote provision of appropriate recycling facilities in new developments			
c) Minimise the impact of existing and new waste management facilities			

## SUSTAINABLE TRANSPORT AND AIR QUALITY

GENERAL ACTIONS	SPECIFIC/ADDITIONAL ACTIONS	LEAD BODY	PARTNERS
<b><i>ST1: Promote more sustainable forms of travel and transport</i></b>			
a) Support increased use of public transport	i) Develop a high frequency and accessible bus service to the new Swansea University campus.	CCS(tr)	NPT / SU
b) Support increased walking and cycling	i) Secure additional funding to help engage more girls and women in cycling through training and social rides. ii) Provide more cycle training opportunities for targeted communities e.g. Communities 1 <sup>st</sup> and ethnic minority groups. iii) Support the development a Swansea cycle centre. iv) Provide cycling classes for adult beginners (four classes between April and October each year). v) Install new bike store for staff and student along with shower and changing facilities at Gorseinon campus. vi) Implement city centre cycle network with off-road, traffic-free routes across city centre. vii) Develop wayfinding strategy for city centre.	BikeAbility Wales BikeAbility Wales Wheelrights GCS CCS(tr) CCS(tr) CCS(tr)	

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	<p>viii) Construct cycle route to new Swansea University campus and improve existing route along Fabian Way.</p> <p>ix) Develop plans for a cycle route along Stafford Common to link Gowerton, Kingsbridge and Gorseinon.</p> <p>x) Coordinate Safe Routes in Communities project in Townhill Communities First area.</p> <p>xi) Promote increased use of active travel both to and from work, and during the working day through the Live Well, Work Well project at Singleton Hospital and Swansea University.</p> <p>xii) Explore opportunities to increase linkages between places of work, schools, communities and the National Cycle Network</p> <p>xiii) Explore opportunities to deliver actions arising from the Clydach Feasibility Study for improved linkages with Ynystawe and Pontardawe.</p>	<p>CCS(tr)</p> <p>CCS(rst)</p> <p>Sustrans</p> <p>Sustrans</p> <p>Sustrans</p>	<p>NPT / SU</p> <p>ABMU / SU</p>
c) Support an increase in park and ride use			
d) Support an increase in car sharing			
e) Explore ways to encourage more sustainable distribution and promote local procurement			
f) Promote use of public transport, walking and cycling to visitors	<p>i) Continue to support the promotion for transport into the rural areas of Gower and Mawr associated with walking in particular and countryside access in general.</p>	<p>Baytrans</p>	

***ST2: Improve access to services, workplaces and community facilities***

<p>a) Improve analysis and modelling of transport and accessibility and ensure all developments include local services, access to public transport, cycle routes and footpaths</p>	<p>i) Complete Morfa Distributer Road to open up land for development, provide walking and cycling routes and an artillery route to the city centre.</p>	<p>CCS(tr)</p>	
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b) Promote the production and use of effective travel plans	i) Formally adopt Swansea University's Sustainable Travel Plan, for both campuses, by December 2014.	SU	
c) Make greener road fuels more accessible and available			

***ST3: Improve air quality and reduce air pollution***

a) Work towards meeting National Standards for air quality	i) Maintain a broad partnership to address air quality issues and produce air quality improvement action plan.	SEF	CCS(pc)
b) Develop a software-driven traffic management system	i) Activate the Nowcaster system and roadside signage.	CCS(pc)	

***ST4: Improve air quality monitoring and reporting mechanisms***

a) Increase monitoring for small particles and other pollutants	i) Install real time chemiluminescent analysers for NOX and NO2 on Morfa Road and High Street.	CCS(pc)	
b) Build and maintain a detailed emissions database and modelling system			
c) Develop pollution alerting systems	i) Establish mechanism for alerting media of poor air quality ii) Promote the use of an alert system by local GP's to warn patients of poor air quality	CCS(pc) CCS(pc)	ABMU / PHW

<b>ENVIRONMENTAL AWARENESS AND ACTION</b>			
<b>GENERAL ACTIONS</b>	<b>SPECIFIC/ADDITIONAL ACTIONS</b>	<b>LEAD BODY</b>	<b>PARTNERS</b>
<b><i>EA1: Encourage and support good practice in ESDGC in local education establishments</i></b>			
a) Encourage wider school participation in environmental management systems such as Eco-Schools and local SD schemes	i) Encourage use of Swansea Sustainable Schools Scheme by local schools, assess progress and award attainment of standards. ii) Organise a Swansea Sustainable Schools Scheme celebration event (spring 2015).	SEEF  SEEF	
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) Organise a programme of out-of-classroom learning experiences for primary school pupils in the urban Target Areas. ii) Seek support for subsidised school visits/programmes and for programme development at Swansea Community Farm.	CCS(nc)  SCF	
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) Maintain the secondary schools teachers network (at least one meeting a year). ii) Arrange ADDs meetings / networking events for primary school teachers (at least one a year). iii) Maintain SEEF website and provide termly 'Green Envelopes' for all schools. iv) Develop a programme of training opportunities on various aspects of SD including INSETS for teachers.	SEEF  SEEF  SEEF  EC	SEEF
d) Improve the range of opportunities for adult education, training and research linked to sustainable development	i) Increase accredited and other courses available at Swansea Community Farm for secondary schools and colleges. ii) Develop accredited training opportunities in food growing, horticulture and cooking skills and recruit a Farm Gardener as an additional staff post.	SCF  SCF	
e) Support schools, colleges and universities to develop and implement policies for sustainable development	i) Achieve Level 5 of the Sustainable Procurement Assessment Framework in three areas by 2014/15. ii) Embed Faculty Sustainability Plans throughout the academic and support structures of the University and create case studies on faculties and support units for the University website.	SU  UWTSD	

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	<p>iii) Complete curriculum audits and develop the curriculum with due regard to the emerging sustainability agenda.</p> <p>iv) Maximise research, project and consultancy income related to sustainability.</p>	<p>UWTSD</p> <p>UWTSD</p>	
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**EA2: Actively promote sustainable living**

<p>a) Improve and promote access to good quality information, guidance and support on environmental events, issues and good practice</p>	<p>i) Produce and publish annual environmental events leaflet.</p> <p>ii) Support 250 visitors on open days at the Little Bryn Gwyn site per year.</p> <p>iii) Maintain and develop Environment Centre's information services including website and provision of regular ECNews updates and monthly e- newsletter.</p> <p>iv) Develop and launch a new web site for Penllergare Valley Woods by the end of January 2015.</p>	<p>CCS(nc)</p> <p>D2E</p> <p>EC</p> <p>Penllergare Trust</p>	
<p>b) Provide a programme of environmental events and activities for people of all ages and increase the number of, and attendance at, these events</p>	<p>i) Organise annual Gower Cycling Festival with a programme of cycle rides with range of difficulty levels.</p> <p>ii) Organise a two-week countryside festival to promote rural parts of Swansea.</p> <p>iii) Develop an expanded programme of environmental film showings, discussion groups and skill sharing workshops to promote good environmental practice and sustainability.</p> <p>iv) Develop a programme of environmentally themed activities, including the Swansea Green Fayre and workshops.</p> <p>v) Organise open seminars on environmental themes (at least three a year).</p> <p>vi) Organise Trailblazers school holiday programme for young people (February half term 2015).</p>	<p>Wheelrights</p> <p>CCS(nc)</p> <p>Transition Swansea</p> <p>EC</p> <p>SEF</p> <p>Sustainable Swansea (SEF)</p>	<p>CCS(aonb) / GLP</p>
<p>c) Improve the range of opportunities for informal education and training linked to sustainable development</p>	<p>i) Complete a new sustainability training centre to BREEAM Excellent rating at Little Bryn Gwyn site.</p> <p>ii) Support 'hard to reach' participants on accredited training programmes – 120 per year at Murton site and 50 per year at Little Bryn Gwyn site.</p> <p>iii) Provide training days for 150 participants per year at Murton and Little Bryn Gwyn sites.</p>	<p>D2E</p> <p>D2E</p> <p>D2E</p>	

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<b><i>EA3: Promote active citizenship and increased participation in decision-making processes</i></b>			
a) Develop training opportunities related to community engagement, active citizenship and governance	i) Continue to develop and deliver the Community Voices Green Spaces project.	SEF	
b) Encourage and support active participation and volunteering in environmental and SD projects	i) Continue to organise volunteer activities such as woodland management, litter picks, beach cleans and guided walks. ii) Maintain the Clearstreams initiative to support awareness-raising and community engagement projects to improve the quality of the water environment for people and wildlife. iii) Involve volunteers in the construction of a sustainably built outdoor cooking area and a rammed earth/straw bale duck house at Swansea Community Farm. iv) Establish a voluntary Conservation Forum by January 2015, to advise and develop an improved appreciation of the wildlife of Penllergare Valley Woods and to suggest appropriate management policies and actions. v) Achieve the volunteer development plan 3-years target of 10,000 volunteer hours in Penllergare Valley Woods by end of March 2015.	MDT NRW SCF Penllergare Trust Penllergare Trust	SEF / WT
c) Support and strengthen partnership initiatives and voluntary environmental organisations	i) Facilitate or support task groups and activities to promote and progress agreed priority issues. ii) Support and develop the Low Carbon Swansea Partnership. iii) Provide support services to environmental organisations and partnerships, including office space, meeting rooms, administrative facilities and project management and support. iv) Support the development of an action plan for the delivery of Core Theme 4 of the Healthy City initiative	SEF SEF EC SEF	
<b><i>EA4: Encourage good environmental practice amongst organisations and businesses</i></b>			
a) Encourage organisations to implement environment and/or SD policies	i) Continue to promote environmental sustainability in rural areas of Swansea.	RSA	

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<p>b) Encourage participation in Green Dragon Awards and other environmental management schemes</p>	<p>i) Obtain the Energy Management System Standard ISO 50001 by October 2015. ii) Attain Green Dragon Level 5 and ISO 14001 for Estates Department at Gower College Swansea.</p>	<p>SU GCS</p>	
<p>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</p>	<p>i) Recruit at least 35 staff teams to our Green Impact Universities scheme in 2014/15. ii) Recruit at least 100 students to our corporate Sustainability Award by 2015/16. iii) Promote sustainability during induction for staff and students using UN Sustainability Literacy Test. iv) Improve the University's classification in the People and Planet Green League, improve performance in NUS Green Impact and maintain Green Dragon Level 5 (2014/15).</p>	<p>SU SU UWTSD UWTSD</p>	
<p>d) Promote good practice through the Swansea Sustainability Trail, the Swansea Green Map, Sustainable Swansea Awards and other projects</p>	<p>i) Complete and publish a community green map for St.Thomas and Port Tennant. ii) Work with communities and partners to produce community green maps for the Target Areas (Penderry – 2014/15 and Townhill – 2015/16).</p>	<p>Sustainable Swansea (SEF) Sustainable Swansea (SEF)</p>	
<p>e) Promote social enterprise, entrepreneurship and employment opportunities linked to environment and SD</p>	<p>i) Continue to organise an annual Oyster fair in Mumbles. ii) Seek funding for project staff to develop projects and enterprises related to the oyster industry in Mumbles (with community council). iii) Continue to promote and administer the Gower AONB Sustainable Development Fund. iv) Develop and implement project plan for RDP 2014-20.</p>	<p>MDT MDT CCS(aonb) SRDP</p>	<p>CCS(aonb)</p>