

ANGUS COUNCIL

COMMUNITIES COMMITTEE – 17 NOVEMBER 2015

CLIMATE CHANGE STRATEGY ANNUAL REPORT

REPORT BY HEAD OF PLANNING AND PLACE

ABSTRACT

This report outlines progress made on actions within the Council's Climate Change Strategy and Action Plan 2012-2016 which was approved by Strategic Policy Committee in December 2011 (report 823/11 refers).

1. RECOMMENDATIONS

It is recommended that the Committee:

- (i) approve the contents of this report in accordance with the Climate Change (Scotland) Act 2009,
- (ii) agrees the contents of the report for submission to the Sustainable Scotland Network, and note the progress directorates have made in implementing the Council's Climate Change Strategy and Action Plan.

2. ALIGNMENT TO THE ANGUS COMMUNITY PLAN/SINGLE OUTCOME AGREEMENT/ CORPORATE PLAN

This report contributes to the following local outcome contained within the Angus Community Plan and Single Outcome Agreement 2013-2016:

- Our communities are developed in a sustainable manner
- Our natural and built environment is protected and enjoyed
- Our carbon footprint is reduced

3. BACKGROUND

The Climate Change Strategy and Action Plan 2012-2016 was approved by Strategic Policy Committee in December 2011 (report 823/11 refers). The strategy and action plan was developed in response to the Climate Change (Scotland) Act 2009. All public bodies within the definition of the Act are required to comply with the climate change duties and are encouraged to take a broad approach when complying with the duties and include all direct, indirect and influenced emissions. Climate change action should address the three aspects of the duty: mitigation, adaptation and acting sustainably and be embedded across all directorates via corporate planning.

The key objective of the Climate Change (Scotland) Act 2009 is to reduce Scotland's greenhouse gas emissions by at least 80% by 2050, covering carbon dioxide and five other greenhouse gases. Under the terms of the Act local authorities are considered "major players" and must in exercising its functions, act:

- in the way best calculated to contribute to the delivery of the targets set in or under Part 1 of the Act;
- in the way best calculated to help deliver any programme laid before the Scottish Parliament under section 53;
- in a way that it considers most sustainable.

4. CURRENT POSITION

The attached action plan (**Appendix I**) contains progress against each action in the strategy and (where appropriate/available) evaluates the carbon dioxide equivalent (CO₂e) saved by implementing that action.

5. FINANCIAL IMPLICATIONS

There are no financial implications associated with the terms of this report. Actions in the Climate Change Strategy are planned projects which will be funded from within financial resources available to the relevant directorate.

NOTE: No background papers, as detailed by Section 50D of the Local Government (Scotland) Act 1973 (other than any containing confidential or exempt information) were relied on to a material extent in preparing the above report.

VIVIEN SMITH, HEAD OF PLANNING & PLACE
EMAIL: CommunitiesBusinessSupport@angus.gov.uk

List of Appendices:

Appendix I: The Climate Change Action Plan 2015 Annual Update

**APPENDIX I
CLIMATE CHANGE STRATEGY & ACTION PLAN – 2015 ANNUAL UPDATE**

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
Health & Wellbeing					
Main Objective: <i>To improve the health and wellbeing of the population in Angus and planning for the impacts of climate change on human health.</i>					
H&W. 1	Angus Council will work closely with partner organisations to promote the use of paths to improve the health of communities.	Communities – Planning & Place	Ongoing	Non Quantifiable.	Ongoing.
H&W. 2	Carry out an audit of existing access provision provided by Angus Council, and implement changes to ensure compliance with the Disability Discrimination Act 1995.	Communities – Services to Communities	2012	Non Quantifiable.	Completed - All Access offices comply with the Disability Discrimination Act 1995 thus making access to services easier for disabled people and reducing their need to travel.
H&W.3	Angus Council will continue to promote the benefits of active and sustainable modes of travel.	Communities – Planning Transport Team	Ongoing	685.8	<ul style="list-style-type: none"> • Angus Liftshare regularly promoted to staff & public – 503 members as @ 31/3/15 – estimated saving of 45 tonnes over the year. • 54 members of staff joined the Cycle to Work Scheme in 2014/15 making a total of 312 since the scheme began. • Participation in annual events such as Bike Week. • Traveline Scotland available on the Council's website. • 6 members of staff took part in Cycle Leader training on 11 March 2015 delivered by Cycle Scotland • Angus Council received £6,104 Smarter Choices, Smarter Places funding in 2014-15 from Transport Scotland, this was match funded by Angus Council. This money was used to develop active travel branding 'Angus on the Go', which was promoted on the Edzell, Stracathro, Brechin, Forfar, Dundee corridor (Service20/21). These services are operated under contract to Angus Council and for the first time provide direct buses operating between Dundee and Brechin, Stracathro Hospital and Edzell. The contract put in place focuses on passenger growth, modal shift and transport by sustainable means. The 'Angus on the Go' branding was rolled out to the 168 bus stops on the

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
					route, included in publicity distributed to 20,000 households on the route and in addition, Stagecoach branded the 7 vehicles operating the services.
H&W.4	Angus Council will promote the benefits of locally sourced food thereby reducing impacts on Climate Change through reduced food miles, less packaging and less GHG emissions whilst providing health and wellbeing benefits in terms of jobs and the provision of better quality ingredients by sourcing fresher, seasonal and unprocessed produce.	Chief Executive's - Economic Development Procurement Team		Non quantifiable.	<ul style="list-style-type: none"> • Through the Angus Council Community Grant Scheme £15,000 was ring-fenced for Food and Drink Events and activities led by communities or businesses to promote the use of local food and drink. This complements the Scottish Government's 'Year of Food and Drink'. To date two projects have been funded including a 'Taste of Angus' picnic in Easthaven and a showcase event at the Drovers Inn. • Supported by the East of Scotland European Consortium and Scotland Europa of which Angus Council are members, an event was held in Brussels on 14th July 2015 which showcased local produce and highlighted the importance of European support for local produce • Online 'Taste of Angus' campaign including 'Flavour of the Month' Facebook promotion continues. • Working with Dundee and Angus Convention Bureau to promote the use of local Angus produce at conference venues both in Angus and Dundee. • Sustainable Procurement • Angus Council at its meeting on 22 March 2012 approved sustainable procurement policy which applies to all Council procurement. Appendix 1 to Report no 221/12 refers. • The Angus Council Procurement Sounding Board (MOG) Board at its meeting of 10 August 2015 approved the proposed steps to devise an Angus Sustainable Procurement Plan. The revised overall target for preparation of the action plan is December 2015 (See P.8).

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
H&W.5	Angus Council will continue to work towards reducing fuel poverty, promoting home insulation and fuel efficient heating systems.	Communities – Housing	Ongoing		<ul style="list-style-type: none"> • Warm Angus area based scheme 14/15 for private sector progressing well. Many Angus residents have now benefitted from energy efficient measures such as lofts, cavities, underfloor insulation, windows, boilers and external wall insulation. (EWI) • EWI contract progressing well at Knowehead area of Kirriemuir on 98 solid wall properties. • Confirmation received of successful bid for further HEEPS: ABS funding from Scottish Government for 15/16 of £1,238,054k for further EWI installs in Angus. • Angus Housing Association will receive £630k of this to fund owners for EWI in Forfar while the balance will finish off Warm Angus project and some more EWI in solid wall properties in Borrowfield, Montrose. It's anticipated there will be a further year of HEEPS:ABS in 16/17 but no details confirmed at present.
H&W.6	Angus Council will continue to provide access to good quality open space and natural environments to aid the well-being of its citizens and visitors to the area.	Communities – Parks & Burial Grounds Planning	Ongoing	Non Quantifiable.	Brief being written to appoint consultants to undertake Open Space Audit and Strategy - Completion Anticipated Summer 2016 (see C&NH10 below).
H&W.7	Angus Council will continue to adopt policies to promote well-designed housing for the future which will take into account the effects of climate change and encourages active lifestyles.	Communities – Planning Housing	Ongoing	Non Quantifiable.	The Proposed Angus Local Development Plan (February 2015) includes: Policy DS3 Design Quality and Placemaking which seeks to deliver high quality of design standard in new developments and draw on local landscape and townscape character. Development proposals should create buildings and places which are distinct in character and identity, safe and pleasant, well connected, adaptable and resource efficient. The Policy will be supported by Supplementary Guidance on a range of design matters.
H&W.8	Angus Council will seek to secure the provision of affordable housing from housing developments on allocated sites, opportunity and windfall sites which will contribute towards meeting identified needs	Communities – Planning	Ongoing	Non quantifiable.	Ongoing implementation of Angus Council's Affordable Housing Policy in consultation with Housing Service. Policy continues to be implemented accordingly across Angus in the context of the Affordable Housing Policy Implementation Guide

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	in each Housing Market Area.				(2009). The Proposed Angus LDP includes a revised Affordable Housing Policy which will continue to seek developer contributions to deliver affordable housing to meet identified needs across Angus. The Affordable Housing Implementation Guide will be reviewed and updated in 2016 to reflect the revised Policy approach contained in the Proposed ALDP.
H&W.9	Buildings and grounds associated with existing and proposed healthcare facilities throughout Angus will be reserved for healthcare use. Where sites become available for redevelopment, alternative uses, which are in line with the policies of the Local Plan, will be encouraged.	Communities – Planning	Ongoing	Non Quantifiable.	No change to general approach. Where site are declared surplus and available for redevelopment, alternative uses in line with policies contained in the adopted Local Plan will be encouraged. The proposed Angus Local Development Plan includes specific policies encouraging appropriate redevelopment and regeneration for redundant health care sites at, Sunnyside Hospital Estate, Montrose, Strathmartine Hospital, and Ashludie Hospital, Monifieth.
H&W.10	The promotion and development of sports clubs and activity groups throughout Angus.	Communities – Leisure Services People – Schools and Learning	Ongoing	Non quantifiable.	Angus Council continue to offer support to clubs and activity groups through many different channels including: <ul style="list-style-type: none"> • Angus Club Excellence Awards (club accreditation). • Community Sport Hubs (national initiative bringing clubs together to work more effectively). • Coach Education courses. • Athlete & Coach support programmes (National Athlete Support - Angus & Coaching Angus). • Angus Council Community Grant Scheme (assessment of sports club applications as required). • Scottish Governing Bodies, Tayside & Fife Regional Sports Partnership, sportscotland (working with these national agencies for sport to help provide as many sporting opportunities as possible for clubs, athletes, players, coaches or helpers). • Bikeability Cycle Training Scheme to be offered in all Schools.
H&W.11	Actively promote physical opportunities and	People –	2012	Non quantifiable.	This is part of the on-going work of the Health

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	benefits in Angus.	Health Improvement Team			Improvement Team <ul style="list-style-type: none"> Physical activity opportunities promoted at all health fairs/public events. Steps to Health. Technology enabled physical exercise (via Video Conferencing technology).
H&W.12	Continue to expand the successful Angus Exercise Referral programme.	People – Health Improvement Team	Ongoing	Non quantifiable.	The Refer 2 Exercise programme operates in Angus Council Sports & Leisure centres. The referral criteria have been expanded to include people with any long-term health condition. The programme allows people with Long Term Conditions, or people less able, to get back to exercise within Leisure Services Facilities/Town Hall through the 'Be Active ... live well' Programme. A reduced membership charge for the first 3 months has been introduced to encourage people to maintain regular exercise. This now part of the mainstream service run within leisure.
H&W.13	Continue to expand the successful Angus Walking Project with emphasis on more walks in more locations.	People – Health Improvement Team	Ongoing	Non quantifiable.	There now 12 walking groups across Angus in town such as Arbroath, Brechin, Carnoustie, Forfar, Monifieth, Letham, Kirriemuir, Edzell and Montrose.
H&W.14	Angus Walking Project will include people with mental health problems.	People – Health Improvement Team	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> Some walking groups have trained walk leaders from Penumbra and are open to local service users. Membership of various other walking groups across Angus includes people with mental health problems. This is now run by Penumbra. 'Steps Tay Health' membership across Angus includes people who wish to improve or maintain their mental health and wellbeing. Steps Tay Health also support any specific organisations who wish to develop walks exclusively for their service users.
Education & Awareness Main Objective: To raise awareness of climate change issues in Angus so individuals can take local action to mitigate and adapt to the impacts of a changing climate.					
E&A.1	Undertake a promotional campaign on waste minimisation and increased recycling by council staff.	Communities – R&P Services	Apr 2011		New recycling service rolled out to council buildings in 2014 however extra support needed to ensure all staff aware of what to do. Waste officers undertaking programme of visits to each council building during 2015/16 to engage with staff and maximise awareness of what should be recycled through improved

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					communications and ensuring appropriate receptacles are conveniently sited.
E&A.2	Encourage workforce involvement in the identification of opportunities and the implementation of actions.	Communities – Property	2011-16	Non Quantifiable	EARS – Carbon/Energy Champions for each Dept. There are EAR's in Monifieth, Arbroath and Forfar areas. Introductions into the other areas occurred during 2014/15.
E&A.3	Lead by example and raise the environmental profile of the Council locally to encourage our partners and the community to make changes to reduce carbon emissions.	Communities – Property Economic Development	2011-16	Non Quantifiable	Economic Development held a second Angus Natural Energy Showcase on 4th October 2014. We had 20 exhibitors and 156 people attended the event. Actions going forward were to assess whether the showcase would become a regular event.
E&A.4	Agreement with SCARF to provide the provision of energy efficiency information, support and advice service to residents in Angus.	Communities – Housing	2014 - 15		Following success of 14/15 Angus HEAT project with funding obtained from The Big Lottery Fund, Angus Council has provided further funding for continuation of project to 15/16. This has continued the employment of 2 dedicated energy advisors through SCARF to offer energy efficiency and fuel poverty advice. To raise awareness of benefits, reduce energy consumption, CO2 emissions and assist Angus Council in attaining targets set in our related strategies.
E&A.5	Continue to promote the Eco Schools programme in Angus Schools.	People – Schools & Learning	Ongoing	Non quantifiable.	All 61 Angus Primary and Secondary Schools are registered as having eco-school status. As at June 2015, 28 schools now have Green Flag status (46%). However, 7 schools had Green Flag Status withdrawn (Did not renew) but 4 new schools gained a Green Flag status during the period. All 22 Local Authority playgroups are registered. 11 have achieved bronze accreditation. 4 have achieved Silver accreditation.
E&A.6	The Community Plan and Single Outcome Agreement 2013-16 includes a key priority of 'Climate Change' for the Angus Rural and Environment Partnership, addressing Local Outcome 12: 'Our carbon footprint is reduced'.	Communities - Community Planning – Rural & Environment Partnership	Ongoing	Non quantifiable.	The new Angus Community Plan and Single Outcome Agreement 2013-16 identifies Climate Change as one of three key priorities for the Rural and Environment Partnership. Six monthly progress reports can be found at http://www.angus.org.uk/remitarep.cfm
E&A.7	Support and encourage implementation of environmental projects.	Communities - Community Planning – Rural & Environment	Ongoing	Non quantifiable.	The Tayside Biodiversity Partnership's Working Groups are continuing to take forward 75 projects, 63 of which are Angus-based. All projects are added to

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		Partnership Tayside Biodiversity Partnership River South Esk Catchment Partnership			<p>the UK BARS (Biodiversity Action Recording System) to ensure local monitoring is reported at UK level. http://www.taysidebiodiversity.co.uk/</p> <ul style="list-style-type: none"> • Kirriemuir Swift Conservation Project: funding was granted by the Angus Environmental Trust to install 100 x nest boxes and safeguard existing nest sites within the Kirriemuir Conservation Area Restoration during the property frontage restoration. There is a strong community element, working with schools, churches, housing associations and local businesses. • The Tayside Biodiversity Partnership took part in the Beautiful Angus Market Place event in Forfar in early 2015. • Biodiversity input for 2014-15 into The Member Officer Group "Pride in Place" and the Beautiful Angus Campaign by Environmental Strategy Project Officer ongoing.
E&A.8	Promote and support environmental volunteering.	Communities – Planning Community Planning – Rural & Environment Partnership Tayside Biodiversity Partnership	Ongoing	Non quantifiable.	<p>The Angus Community Plan and Single Outcome Agreement 2013-16 includes the action 'Promote community involvement and community volunteers in management of their local environment'. Progress is reported on a six monthly basis by the Rural and Environment Partnership http://www.angus.org.uk/remitarep.cfm</p> <ul style="list-style-type: none"> • Small Blue and Coastal Butterflies Project - The project now covers the Tayside and Grampian areas, involving the Butterfly Conservation Scotland East Branch, the Tayside Biodiversity Partnership and the N. E. Scotland LBAP areas. An MSc dissertation completed in late 2014 may help guide future work and there are hopes to develop longer term projects centred on coastal colonies and potential disused railway sites. • This year the Angus Ranger Service will be involving local people at possible inland sites to check for the presence of Kidney Vetch. Scotia Seeds have donated local provenance Kidney

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					<p>Vetch seeds to enable specific sites to be broadcast seeded and a local nursery, Celtica Wildflower Nursery, is growing on x 250 seeds to plant out as mature plants in early 2016. It is hoped this will help restore connectivity of populations along the coast. The project may be used by SNH climate change adaptation case study.</p> <ul style="list-style-type: none"> • Angus Cetacean Awareness Project www.marinelifeangus.co.uk the website hosting ACAP, promotes a wealth of information on local coastal sites great for land based viewing, and also aims to publicise other local recording schemes recording local butterflies, maritime plants and marine non native species. Sightings are reported to BARS and the Tayside Local Biodiversity Action Plan and there is now a twitter account to follow @marinelifeangus. Since the project began there have been regular sightings at more than seven locations on the Angus coast of species including bottlenose dolphins, minke whale, porpoise and common dolphin and even humpbacks at Montrose Bay. A particular hotspot is Scurdieness lighthouse at Ferryden, Montrose. The number of sightings reported rose in 2014 and more than 100 bottlenose dolphins were recorded over the course of the year. The project continues to secure high profile PR locally and nationally. • Angus Coastal Intertidal Life Survey – “Shore Thing (MBA)” An investigation is being carried out at present to involve university students in the project and other special interest groups. At present no invasive species have been identified during surveys. Hopefully late 2015 will see more surveys being carried out by newly recruited volunteers. • The Amphibians in Drains project – volunteers from the Friends of Angus Herpetofauna, UHI and

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					<p>Dundee University undertook the first British Amphibian Ladder trial at two gullypot sites: one just north of Dundee and the other in Carnoustie. A further 30 amphibian ladders have been added to the trial at Angus Council's Orchardbank</p> <ul style="list-style-type: none"> • Headquarters, Forfar. Additionally, Angus Environmental Trust funding enabled wildlife kerbs and other measures to be installed at a key amphibian crossing point at Monikie Country Park; this is being monitored by Angus Ranger Service Toads on Roads volunteers. • Tayside Barn Owl Project: the Angus Environment Trust-funded project continued, with local volunteers helping to install nest boxes and then monitor them. • The same applied to the Tayside's Tree Sparrows Project: as this came to completion, AET confirmed it will fund a pilot Tree Sparrows on the Edge project to involve three local communities in making nest boxes, installing them and monitoring them. • Going the Whole Hog – AET-funded project led by the Angus Council Ranger Service, working with Eco Schools and Eco Centres. • In the first 9 months of the project 3,885 volunteers were involved – 29 primary schools and nursery classes, 2 secondary schools, 3 community groups, and a Further Education College. Every primary school in Angus will have a hedgehog hibernaculum in place by 2017, together with a planting of spring-flowering bulbs and wildflowers. • Tayside Recorders' Forum – Angus Ranger Service hosted the 2014 Recorders' Day in Forfar (which attracted 60 volunteer Recorders).
<p>Energy Main Objective: To reduce the consumption of fossil fuel for energy use, promote energy efficiency and increase the use of renewable energy for the Council's own operations and throughout the county.</p>					
E.1.	Reduce CO2e emissions from buildings by	Communities –	2011-16	2,037 CO2e tonne	Significant progress has been delivered up to and

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	2.5% per annum (which will help the Council to meet the emissions reduction target of 20% CO2e by 2015/16 compared to 2006/07 levels). **note: CO2e reduction target increased to 3% per annum Communities Committee 18 Aug 2015 294/15	Property		reduction in 2014/15	including 2010/11 almost achieving the then target of 12.5% reduction to 1990 base. Good progress being delivered in fulfilling the Council's adopted energy consumption and carbon dioxide emissions targets for non-Housing and Communal areas and sheltered accommodation. The "Summer Switch Off" has been implemented for most of the Council's Estate. This involves reducing the heating during spring time, switching the heating off during the summer time and gradually increasing the heating during autumn. At the same time the maximum heating temperature has been set at 20 degrees Celsius. The outturn position for 2014/15 resulted in a 5.5% reduction in CO2e emissions compared with the previous year. The average reduction over the past four years is 3%pa. Please see the table below for some specific projects.																		
				Carbon reduction projects 2014/15:																			
				<table border="1"> <thead> <tr> <th>Technology</th> <th>Property</th> <th>Carbon savings</th> </tr> </thead> <tbody> <tr> <td>The installation of a 39kW Photo Voltaic Array</td> <td>Seaton Grove RHE</td> <td>15 tonnes CO2e</td> </tr> <tr> <td>Installation of condensing boilers</td> <td>Seaton Grove RHE</td> <td>34 tonnes CO2e</td> </tr> <tr> <td>Changing to LED lighting</td> <td>Lilybank Centre</td> <td>5 tonnes CO2e</td> </tr> <tr> <td>Changing to LED lighting</td> <td>Carnoustie Leisure Centre</td> <td>5 tonnes CO2e</td> </tr> <tr> <td>Changing to LED lighting</td> <td>Ravenswood Office</td> <td>14 tonnes CO2e</td> </tr> </tbody> </table>		Technology	Property	Carbon savings	The installation of a 39kW Photo Voltaic Array	Seaton Grove RHE	15 tonnes CO2e	Installation of condensing boilers	Seaton Grove RHE	34 tonnes CO2e	Changing to LED lighting	Lilybank Centre	5 tonnes CO2e	Changing to LED lighting	Carnoustie Leisure Centre	5 tonnes CO2e	Changing to LED lighting	Ravenswood Office	14 tonnes CO2e
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E.2.	Achieve an overall reduction in CO2e emissions from Council activities of at least 20% by the end of the year 2015-2016.	Communities – Property	2011-16		Current strategy ongoing and delivering progress. The revised action plan was approved by the Corporate Services Committee report number 353/13. Good progress continues to be made however we are currently slightly above the target reduction profile.																		
E.3.	Bring together existing and future Carbon Management projects into a consistently managed and coherent programme with management oversight from the Climate	Communities – Property	2011-16		<ul style="list-style-type: none"> The Climate Change Strategy Working Group continues to be deliver areas of climate change work relating to corporate strategy and reporting, landscape scale mitigation and adaptation 																		

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	Change Strategy Working Group and the Energy Management Group.				<p>measures, Local Climate Impact Profile data gathering and working in partnership with external stakeholders and community planning partners. The Environmental Strategy project Officer who sits on the group continues to provide the corporate update to the Scottish Government annually (statutory report form 2016).</p> <ul style="list-style-type: none"> • Introduction of changes to energy technicians system of work to create a closer working relationship with the building managers and energy awareness representatives 2012/13 This has now been complimented with the introduction of Ear's (E&A2 above). • New Carbon Reduction Member/Officer Group has been established. Communities Committee 3 March 2015 93/15 following the restructure of the senior management within the Council.
E.4	PC Monitors and workstations in schools and offices (Phase 1: 4,000 computers; Phase 2: 3,000 computers).	Resources – IT People – Schools & Learning	2011-16		<ul style="list-style-type: none"> • Computers shut down in all (8) secondary schools at end of the day. Secondary Pupils can only shut down not log off. Over 2,000 computers in Secondary schools. We continue to develop and review our IT provision in schools. • The introduction of 'Citrix' thin client within offices will reduce the energy consumption and will enable the base units to be managed externally. The progression of the Agile Angus programme is helping with the roll out of the thin client Citrix boxes. They in turn reduce the energy consumption by 50%.
E.5	7 day timers on printers, computer peripherals and other office equipment.	Communities – Property (EMU)	2011-16		<ul style="list-style-type: none"> • Completed. The area energy technicians and local EAR's will monitor the use of the timers to ensure they are fully utilised. The energy technicians continue to monitor the use of the timers. This is particularly important during the relocation of large numbers of staff and equipment. • The timers save energy by switching off the power to the particular item of equipment out with normal working hours. E.g. in the case of a printer

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					the timer will switch off the power after 7:00pm and switch it back on at 8:00am Monday to Friday and will also switch off the power over the weekend this reduces the potential standby power use by 67%.
E.6	Change from Quarterly meters to Half Hourly metering (Ph 1 and Ph 2) 350 units.	Communities – Property (EMU)	2011-16		The final phase of installing 76 AMR meters will be completed during 2014/15. This project is now complete.
E.7	Energy Saving Awareness Programme (Bruce House).	Communities – Property (EMU)	2011-16		The “EmPower” E-learning package which was developed in collaboration with the Carbon Trust and was launched in April 2014. The package is interactive and provides energy saving advice and guidance. We are working towards making this module compulsory for new members of staff as part of the induction process. With the development of the lower ground floor in Bruce House as an agile working area and large numbers staff being relocated there we intend to repeat the energy awareness training.
E.8	Installation of biomass boilers.	Communities – Property (EMU)	2011-16	623 tonnes	Recent additions to the list of properties heated from biomass boilers are: Montrose Sports Centre 500kW boiler and The Kinloch Centre and Supported Housing 300kW boiler the emissions reduction for both properties is 623 tonnes of CO2 per annum.
E.9	Draught proofing of buildings.	Communities – Property (EMU)	2011-16		Completed.
E.10	New Montrose Swimming Pool – Biomass Boiler.	Corporate Services	2011-16	Included in E.8 above	As E.8 above.
E.11	Installation of PowerPerfactor voltage optimisation software at twenty individual sites.	Communities - Property (EMU)	2011-16	199 (778 cumulative)	Installation has now occurred in 20 buildings. Evaluation of the savings created from this project is ongoing. The PowerPerfactor Voltage Optimisation project is complete. All identified / suitable buildings have Voltage Optimisation installed; 20 have been installed: 17 during 2010/11 and 3 during 2011/12. <ul style="list-style-type: none"> • Savings per annum = 397,085 kWh, 199 tonnes CO2, £42,806. • 2010/11 to 2013/14, total saved: 1,559,130 kWh, 778 tonnes CO2 and £166,748
E.12	Replacement of printers with MFDs.	Resources –	2011-16		Significant progress has been made with the vast

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		HQ Support			majority of printers being removed from corporate offices. There has also been a large reduction in printers within education buildings and schools. Further reductions in numbers of printers will continue to be made wherever possible but on a much smaller scale.
E.13	Heating System Improvements.	Communities - Property (EMU)	2011-16		As E.1 above.
E.14	Adaptive levels of Street lighting to reduce the energy use.	Communities – Roads	2011-16	4327 (-513 from 2012)	<p>The council continue to reduce the energy consumption of street lighting both in terms of reducing the corporate carbon footprint and its energy costs through the following methods:</p> <ul style="list-style-type: none"> • Variable Road Lighting Levels (Dimming) with over 2826 units having now been installed utilising dimmable control gear. • White Light – Continuing the programme of replacing existing 'orange light' & these now account for 74% of the lighting stock in Angus. • LED (Light Emitting Diode) – Over 5100 lighting units have now been installed. • Photo Electric Cells – Trimming burning hours - Continuing the programme of replacing existing photocells installed in Angus which are calibrated to switch on at 70 lux with a unit which switches on at 35 lux offering an energy saving against the existing switching regime <p>Lighting Carbon Footprint has reduced from 4327tonnes in March 2014 to 3890tonnes in March 2015 along with a reduction in energy usage from 7998805kWh to 7332234kWh over the same period.</p>
E.16	Continue to enforce legislation in relation to energy performance labelling for a range of consumer products including electrical appliances and motor vehicles.	Communities – Trading Standards	Ongoing	Non Quantifiable	45 products examined for energy labelling. 2 incorrect were given business advice. This ensures that products sold in Angus are properly labelled for awareness and compliance with energy limits
E.17	Investigate complaints in respect of Energy Performance Certificates for domestic premises, sales and rental.	Communities – Trading Standards	Ongoing	Non Quantifiable	No complaints made regarding EPC during the year.
E.18	Investigate complaints; carry out market surveillance as part of wider projects where	Communities – Trading Standards	Ongoing	Non Quantifiable	No complaints received during this period.

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
	appropriate in respect of environmental claims for consumer products.				
E.19	Investigate complaints about the “Green Deal” incentive and associated scams particularly in respect of performance claims and cost savings.	Communities – Trading Standards	Ongoing	Non Quantifiable	<p>There were 9 complaints handled about installations or replacements associated with energy saving, not all “Green Deal” transactions. The installations were about a heat pump, 2 solar panel installations, 3 about insulation, a biomass boiler, 2 boiler replacements and a window scrappage scheme. There were many more complaints about building work that affects energy performance especially roofing work and double glazing.</p> <p>There were 97 complaints in total about home maintenance & repairs and double glazing, 50 of which had an energy implication.</p> <p>15 double glazing 14 central heating 13 roofing 5 solar heating 3 insulation</p> <p>The trading practices involved were; Substandard goods & services 17 Misrepresentation 10 Targeting of vulnerable persons 9 Unsolicited & unfair practices (bogus selling, no cancellation rights, etc.) 14</p>
E.20	Housing Division is working towards a target for all council houses to meet SHQS energy efficiency criteria by March 2015. Furthermore, from 2015/20, we will have to meet future targets for EESSH standard of efficiency.	Communities – Housing	2015 and ongoing		<p>We passed SHQS by end of March 2015. This was achieved through our electric to Gas contract, installation of PV panels and External Wall Insulation in our landward properties.</p> <p>We are now looking ahead to working towards meeting our EESSH standard of efficiency by 2010.</p>
E.21	The council’s new build housing is being constructed to comply with the Bronze Standard of the Technical Handbook/domestic and up to Level 4 of the Code for Sustainable Homes.	Communities – Housing	Ongoing	(-48.10)	38 new homes have been built to the Bronze standard and up to level 4 of the Code for Sustainable Homes. This has saved an additional 102.60 tonnes over standard new build housing. 13 gas heated flats have been demolished and this has saved 48.10 tonnes.

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
Resource Management					
Main Objective: To reduce waste and the levels of waste going to landfill; increase recycling in line with targets and increase public awareness of the contribution that waste makes to climate change					
RM.1	Initiate discussions with neighbouring authorities with a view to exploring the potential for forming a joint waste disposal group having a remit to investigate longer term options for waste disposal aimed at securing sustainable disposal at the most economic cost for a period of not less than 20 years.	Communities – Waste Management	2016	Non quantifiable.	A partnership with Dundee City Council has been established to procure long term residual waste treatment (thermal treatment) solution for both authorities. Procurement process has started and competitive dialogue with bidders ongoing. New 25 year contract is anticipated to start early 2017.
RM.2	Introduce on a phased basis a revised recyclate collection system to meet the proposed Zero Waste Plan for Scotland targets this to include consultation with householders.	Communities – Waste Management	2014	Non quantifiable.	New household kerbside recycling service was introduced during 2014 which includes mixed recycling and food waste collections.
RM.3	Extend the AWC system in terms of grey bin, green bin, collection of recyclate and food waste to all areas of Angus where implementation should be feasible, this to include consultation with householders.	Communities – Waste Management	2014	Non quantifiable.	During roll-out of new kerbside recycling service in 2014 grey mixed recycling bins were provided to the vast majority of households, food waste bins were provided to all but the most rural areas, and the provision of green garden waste bins was also similarly extended.
RM.4	Carry out ongoing development at Restenneth Landfill site.	Communities – Waste Management	2015	Non quantifiable.	Long term restoration works at the site ongoing. Possible closure of landfill site after completion of current working cell is currently being considered but no decision taken yet. Decision likely to be taken when a firmer state date for new residual waste contract with Dundee City Council has been established. Closure and after care plan to be developed as required.
RM.5	Implement the recommended actions from the Waste Best Value Review.	Communities – Waste Management	2014/15	Non quantifiable.	Optimisation of collection routes was implemented as part of roll-out of new collection services during 2014. Good driver behaviour training to be rolled out to waste LGV drivers during 2015/16.
RM.6	Expand the range of materials which can be recycled at Recycling Centres in order to reduce the levels of general waste collected through a programme of investment (which may include the	Communities – Waste	Apr 2012	Non quantifiable.	Complete – the range of materials that can be recycled at each Recycling Centre has been maximised based on available space and availability of markets for materials. There will be ongoing review of the range of materials that can be recycled taking

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
	provision of additional staff on site to assist customers in recycling materials brought to the site).				into account changes to recycling markets
RM.7	Undertake a specific review across all council facilities to identify options for increasing the opportunities for recycling by staff and customers in terms of both the number of collection points and materials collected.	Communities – Waste	Apr 2012	Non quantifiable.	New recycling service rolled out to council buildings in 2014 however extra support needed to ensure all staff aware of what to do. Waste officers undertaking programme of visits to each council building during 2015/16 to engage with staff and maximise awareness of what should be recycled through improved communications and ensuring appropriate receptacles are conveniently sited
RM.8	Develop a locally based education and promotion campaign to encourage waste minimisation and maximum recycling/composting among householders.	Communities – Waste	Apr 2012	Non quantifiable.	Complete – Waste Awareness Officers (John Anderson & Brenda Carcary) now on staff establishment and campaign ongoing as part of roll-out of new kerbside recycling service.
RM.9	Develop an education and promotion campaign to that described above, aimed at council staff and customers calling at council facilities.	Communities – Waste	Apr 2012	Non quantifiable.	As above.

Transport

Main Objective: “A transport system shaped by engagement with its citizens, which helps deliver prosperity and connects communities across the region and beyond, which is socially inclusive and environmentally sustainable and which promotes the health and well-being of all.”

T.1	Continue to monitor Fleet vehicles on a monthly basis measure its CO ₂ and other greenhouse gas contribution from its operations.	Communities – R&P Services	Ongoing		Ongoing.
T.2	Angus Council will review the Core Path Plan in consultation with landowners and local communities.	Communities – Planning	2015	Non quantifiable.	Phase 2 of the programme of Core Path improvements completed. Work on a third phase is underway.
T.3	Angus Council will work with Angus Environmental Trust to assist smaller communities to develop path networks.	Communities – Planning	Ongoing		The Trust has granted the following funding for the projects detailed below these were all undertaken under Object D of The Landfill Communities Fund: <ul style="list-style-type: none"> Ferryden Scuperie Path & Steps - This work was to improve and make safe the route from the high path down to the harbour area. Works on this project were completed in May 2015, total AET funding £3,176.52 Rossie Community Woodland - This work was to provide paths around the edge of the estate both for

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
					<p>walkers' cyclists and horse riders. The paths links to the Core path provision and Rights of Way and car parking has also been provided by the estate. Works on this project were completed in March 2015, total AET funding £10,410.00</p> <ul style="list-style-type: none"> • Monikie & Newbigging Community Path - This work brought into use old paths by providing a small bridge and upgrading farm tracks. The route now gives the villagers of both hamlets a route for travelling between the two, away from the very busy road. This improves access from the school to the Country park and provides a nature trail. Project completed August 2014; total AET funding £20,888.95 (this one had a substantial underspend of £22,511.05) • Upgrade of path between Craigo and Lower Logie - The Community Association in Craigo works tirelessly for its community. This improved route links into the Core Path Plan and Rights of Way, as well as forming an additional circular route for the benefit of the villagers. Project completed July 2014, total AET claimed £35,519.45, underspend of £5,638.55.
T.4	Angus Council will explore options to further promote public transport as a means of enjoying countryside access.	Communities – Transport	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> • Public Transport information is provided to the Cairngorms National Park Authority to promote access to the Park from Angus – this information is included in their Cairngorms Explorer Leaflet. • In November 2014, a new fleet of vehicles was introduced by Stagecoach East Scotland on Service X7: Dundee – Arbroath – Montrose – Stonehaven – Aberdeen and the route was extended to serve Perth and Perth Royal Infirmary. The service frequency was increased to hourly daily between Dundee and Aberdeen with Perth and Perth Royal Infirmary being served hourly on Mondays to Saturdays and two-hourly on Sundays. The new vehicles have dedicated cycle lockers with storage for up to 5 vehicles.

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
					<ul style="list-style-type: none"> Following meetings between Angus Council, Tactran, MSP's and Elected Members; the number of services stopping at Monifieth increased from two to six Monday-Saturdays from December 2013. Passenger demand for the four new services has exceeded all expectations. Passenger numbers at Monifieth have more than doubled in the first three months since the introduction of a 08.11 service to Edinburgh, a 17.57 to Arbroath, 18.31 to Edinburgh, and a 23.14 to Aberdeen. More than 1,300 people used the services from 9 December 2013 and 1 March 2014 - compared with less than 550 at Monifieth station over the same period the previous year, an increase of up to 120% a month. The decision to treble the number of trains at Monifieth on weekdays and Saturdays reflects the strong demand for rail services in the area As a result of passenger feedback and complaints regarding failed connections in Forfar for passengers travelling between Edzell, Stracathro Hospital, Brechin and Dundee, Angus Council tendered for and introduced in January 2015 direct buses on this corridor.
T.5	Continue to implement the actions in the council's Travel Plan.	Communities – Planning	Ongoing	(-45)	As in H&W3 above. Angus Liftshare has estimated emissions savings of 45 tonnes (£32,867) of CO2 from April 2014 to end of March 2015 (note liftshare data only collected from 23 June 2014 onwards).
T.6	Review and update the council's Travel Plan	Communities – Planning	2013	Non quantifiable.	Staff survey carried out in 2012 and results used to develop new Travel Plan 2014-2019 approved by Strategic Policy Committee in December 2013.
T.7	Gather data from staff/elected members business mileage of CO ₂ emissions (for Carbon Trust Standard Report)	Communities – Property Planning	2012	(-61)	Mileage claims for 2013/14 amount to 2,809,597, (down from 3,009,328 miles in previous year) = a saving of 61 tonnes CO ₂ e. Fuel type & mpg is not known for every car so "unknown fuel" conversions factor was used from DECC's guidelines on company reporting of greenhouse gas emissions. As part of the integrated payroll/HR system, ResourceLink, development on car mileage expenses, it will be a requirement for all employees and elected members

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress																
					using the online expenses to provide the CO2 emission of their car(s).																
T.8	Investigate methods of gathering data on staff commuting mileage (for Climate Change Strategy Annual Reports).	Communities – Planning	2012	No change	<ul style="list-style-type: none"> The staff travel survey carried out in 2012 shows average commuter mileage for staff 21.2 miles round trip. Extrapolated across all staff this estimates CO2e emissions as being 5672.6 tonnes. No further staff survey carried out 2014/15 – substantial reductions could be achieved once Agile Working is implemented and this is currently being rolled out during this year. Estimated car share data from Angus Liftshare in T.5 above. Car-sharing for Angus Council employees show that last those who regularly car share in Liftshare BUDI teams reduced their Co2 emissions by 5.6 tonnes with a saving of approx. 17,013 miles in 2014/15. 																
T.9	In encouraging sustainable, integrated and inclusive transport, the Angus Local Plan aims to promote a pattern of development that supports a choice of travel throughout Angus and to other areas. Complementing the Angus Local Transport Strategy, this includes land use planning measures that facilitate travel by foot, cycle and public transport and, where possible, reduce the need to travel by car. Alongside this there is a need to secure a balance between the demands of the telecommunications industry and the protection and enhancement where possible of the local environment.	Communities – Planning		Non Quantifiable.	The principal of promoting sustainable transport supported by well-located and accessible development, incorporated in the TAYplan SDP, will be carried forward in the future Angus LDP Proposed Plan. This will be further enhanced by the Active Travel Strategy which will be completed during 2015/16.																
T.10	Continue to develop School Travel Plans.	People – Schools and Learning	Ongoing	Non quantifiable.	64% of schools in Angus have a Travel Plan in place or are currently undertaking travel plan activities.																
					School Hands-Up Survey 2014 (Angus Results): <table border="1" data-bbox="1256 1316 2123 1383"> <thead> <tr> <th>Type of Establishment</th> <th>Walk</th> <th>Cycle</th> <th>Scooter/Skate</th> <th>Park & Stride</th> <th>Driven</th> <th>School Transport (Bus)</th> <th>School Transport (Taxi)</th> </tr> </thead> <tbody> <tr> <td>Primary</td> <td>49.6%</td> <td>3.4%</td> <td>3.3%</td> <td>8.1%</td> <td>27.2%</td> <td>7%</td> <td>1.4%</td> </tr> </tbody> </table>	Type of Establishment	Walk	Cycle	Scooter/Skate	Park & Stride	Driven	School Transport (Bus)	School Transport (Taxi)	Primary	49.6%	3.4%	3.3%	8.1%	27.2%	7%	1.4%
Type of Establishment	Walk	Cycle	Scooter/Skate	Park & Stride	Driven	School Transport (Bus)	School Transport (Taxi)														
Primary	49.6%	3.4%	3.3%	8.1%	27.2%	7%	1.4%														

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress							
					Secondary	54.1%	2.4%	0.2%	3.9%	13.2%	24.7%	1.3%
					Nursery	50.4%	4.9%	5.6%	11.9%	24.3%	2.2%	0.7%
					School Hands-Up Survey 2014 (Scotland Results):							
					Type of Establishment	Walk	Cycle	Scooter/Skate	Park & Stride	Driven	School Transport (Bus)	School Transport (Taxi)
					Primary	46.1%	5%	4.3%	9.9%	25.8%	7.2%	1.7%
					Secondary	42.7%	0.9%	0.2%	4.1%	14.6%	35.4%	1.3%
					Nursery	41.4%	3.6%	4.3%	4.4%	42.5%	2.7%	0.9%
T.11	A new care monitoring system is being implemented from April 2012 which will help with more efficient route planning for home care staff.	People – Adult Care	From April 2012		This project remains behind schedule with technical issues still impacting.							
Sustainable Procurement												
Main Objective: <i>Ensure that goods and services purchased by the council contribute to sustainable development whilst delivering value for money for the citizens of Angus.</i>												
P.1	Continue to specify the use of materials in accordance with the BREEAM ¹ Green Procurement Guide and in accordance with council policies, e.g. 10% recycled content; rainwater recycling; sustainable properties best practice; sustainable sourcing of timber and timber products, renewable generation etc. It is investigating the implementation of the National Zero Waste Strategy by reducing waste to landfill.	Communities – Property	Ongoing	Non quantifiable.	Ongoing.							
P.2	Continue to procure through Procurement Scotland who in turn specifies equipment meets energy star compliance and that all companies must recycle IT equipment.	Resources – IT	Ongoing	Non quantifiable.	Angus Council continues to procure PC hardware through Scottish Procurement.							
P.3	Ensure all documents, leaflets, posters, etc produced by the council are on at least 80% recycled paper with the remaining 20% sustainably produced.	Resources – Legal & Democratic Services	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> This target is transposed into the Angus Council Procurement Action Plan 2015/2017. Latest update (July 2015) - All (100%) paper used by Print & Design Unit for the production of leaflets, posters 							

¹ Building Research Establishment Environmental Assessment Method

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					<p>etc. is 75% recycled content.</p> <ul style="list-style-type: none"> For other Council paper use, Angus Council is working towards the Silver Timber Pledge award which involves, amongst other things, the evidenced use of paper sourced only from sustainable sources.
P.4	Continue to use energy efficiency measures such as efficient A rated boiler installations, sustainable construction and use of FSC timber are part of our specification.	Communities – Housing	Ongoing		Ongoing.
P.5	Sign up to WWF's Timber Pledge to purchase only sustainably produced timber and timber products.	All Depts.	2012	Non quantifiable.	Silver Award achieved.
P.6	Continue to purchase low energy lighting wherever possible.	All Depts.	Ongoing		Ongoing
P.7	Purchase vehicle engines to the highest current specification with the lowest emissions.	Communities Fleet	Ongoing		<p>In the last year the Council has:</p> <ul style="list-style-type: none"> Replaced 2 RCV vehicles within Waste to vehicles with "Euro V EEV" engine vehicles. Purchased 3 RCV vehicles within Waste for Food Waste and Co-mingling collections with "Euro V EEV" engine vehicles. Purchased 3 RCV vehicles within Waste for Food Waste and Co-mingling collections with "Euro VI" engine vehicles. Replaced 6 Grounds Maintenance vehicles with "Euro V engine & Hybrid" technology. Replaced 1 Business Recycling vehicle with "Euro VI EEV" engine vehicle. Replaced 1 Landfill Digger within waste with TEIR 4 engine. Replaced 1 Hire Centre Minibus with "Euro V engine & Hybrid" technology.
P.8	The Corporate Procurement Manager shall continue to engage with stakeholders with regard to corporate social responsibility in order to develop a procurement approach to climate change/environmental issues.	Resources – Corporate Improvement & Finance	Ongoing Ongoing	Non quantifiable. Non quantifiable.	<ul style="list-style-type: none"> Angus Council at its meeting on 22 March 2012 approved sustainable procurement policy which applies to all Council procurement. Appendix 1 to Report no 221/12 refers. <p>Note*</p>

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
	Continue to purchase plant and machinery that meets specifications with lowest emissions	Communities – Parks & Burial Grounds			<ul style="list-style-type: none"> This target is transposed into the Angus Council Procurement Action Plan 2015/2017. The Angus Council Procurement Sounding Board (MOG) Board meeting of 10 August 2015 approved the proposed steps to devise an Angus Sustainable Procurement Plan. The revised overall target for preparation of the action plan is December 2015. The Parks Service through procurement frameworks will continue to include environmental impact assessments when evaluating tender submissions
Cultural and Natural Heritage					
Main Objective: <i>Raise awareness of climate change issues which will influence our stewardship of biodiversity natural resources and the promotion of the unique natural environment of Angus.</i>					
C&NH.1	Tayside Biodiversity Action Plan species and habitat action plans are implemented, to ensure objectives are met ensuring that future climate change is taken into account.	Communities – Planning Tayside Biodiversity Partnership	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> Ongoing projects being carried out by terrestrial and coastal groups to enhance habitats and species populations. The 2nd Edition Tayside Biodiversity Action Plan will be published soon (covering the period 2015-25). http://www.taysidebiodiversity.co.uk/ In 2014 the Angus Council report on our fulfilment of our biodiversity duty was submitted to the Scottish Government. The report has been praised by SNH as a good example of highlighting all of the work the authority has carried out over the last three years – see http://www.angus.gov.uk/directory_record/5451/statutory_biodiversity_duty_%E2%80%92_report_on_delivery
C&NH.2	Establish the role of protected areas, as part of a wider ecological network, in relation to climate change mitigation and adaptation.	Communities – Planning		Non quantifiable.	Ongoing work between main environmental stakeholders in particular Forestry Commission Scotland and the River South Esk Catchment Partnership. The Glen Clova Contour Planting Project (a landscape-scale catchment flood management project) is underway in the upper South Esk catchment. http://theriversouthesk.org/
C&NH.3	Effective landscape or catchment-scale land use planning used as appropriate.	Communities – Planning	Ongoing	Non quantifiable	The Glen Clova Contour Planting Project and research, a large scale forestry project aimed at

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
		River South Esk Catchment Partnership Roads			reducing peak flows in the River South Esk catchment, is supported financially, with £80,000 being made available to date, by the Forestry Commission, Angus Council, Esk District Salmon Fishery Board and the Cairngorms National Park Authority, with in-kind support from RSPB. Further studies were initiated in Glen Clova in 2014 as a result of the project including a hydrological assessment of contour planting, a waders, wetlands and forest planning study, an ecological site classification of the glen and an investigation into the future of hill sheep farming. Planting at the first site identified in the scheme was completed in the spring and the second in autumn 2014. Lessons learned from 2014's plantings will be useful to shape the projects direction in 2015. http://theriversouthesk.org/
C&NH.4	Reduce woodland fragmentation as a result of new woodland planting and other land use change (with limited impact on other habitats).	Communities – Planning River South Esk Catchment Partnership Parks & Burial Grounds Tayside Biodiversity Partnership		Non quantifiable.	Ongoing work between main environmental stakeholders in particular Forestry Commission Scotland to encourage native tree planting and to monitor the connectivity of natural woodland in Angus and identify areas for increased planting opportunities. Note* The Tayside Biodiversity Partnership arranged a training session for Angus Council staff on "The Native Woodland Survey of Scotland and its Relevance to Angus" in July 2014.
C&NH.5	Native woodlands are in favourable condition with improved resilience to potential climate change impacts.	Communities – Leisure Services		Non quantifiable.	Ongoing work through issues identified in Angus Woodland and Forestry Framework see http://www.angus.gov.uk/ac/documents/wff/default.html in particular contour planting projects in the upper catchment area of the Rive South Esk.
C&NH.6	Ensure there is a better understanding of how our native woodland is affected by climate change, and how our woodlands and wider landscapes can be adapted to deal with the impacts of climate change.	Communities – Planning River South Esk Catchment Partnership Leisure Services		Non quantifiable.	<ul style="list-style-type: none"> Ongoing work continues through the River South Esk Catchment partnership to promote and encourage native tree planting as means of climate change mitigation e.g. reducing water flow, lowering river temperatures for breeding fish. Planning department provided a training session

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					as part of the "Biodiversity in Practice" lunchtime Seminar sessions on "The Native Woodland Survey of Scotland and its Relevance to Angus" in July 2014.
C&NH.7	Promote adaptation and mitigation measures that enhance the sustainability of the use of natural resources and ecosystem services.	Chief Exec's - Economic Development Communities – Planning		Non quantifiable.	<ul style="list-style-type: none"> Ongoing landscape scale adaptation and mitigation works are carried out by a range of stakeholders in Angus with a particular emphasis on Natural Flood Management. A database of local severe weather events and their impacts will be investigated for use in a future Local Climate Impacts profile (LCLIP) as part of ongoing adaptation work. Ongoing projects on a catchment scale carried out by the River South Esk Catchment Partnership http://theriversouthesk.org/
C&NH.8	Promote action to enhance habitats and address climate change, e.g. from woodland expansion on archaeology or from coastal realignment on coastal heritage.	Communities – Planning River South Esk Catchment Partnership Leisure Services		Non quantifiable.	Ongoing projects carried out by the River South Esk Catchment Partnership (see W.3 & W.4), Tayside Biodiversity Partnership and Tay Estuary Forum. http://theriversouthesk.org/ http://www.taysidebiodiversity.co.uk/
C&NH.9	Establish a Strategic Greenspace Partnership to engage with external partner organisations on the implementation of the Open Space Strategy recommendations.	Communities - Planning Leisure Services Parks & Burial Grounds River South Esk Catchment Partnership Tayside Biodiversity Partnership		Non quantifiable.	<ul style="list-style-type: none"> A Green Space Working group still needs to be formed to coordinate the quality auditing of the Angus open space and the development of green networks within Angus. This will be set up as part of Open Space Audit and Strategy work and will implement recommendations from the work upon completion – expected summer 2016 onwards. A Concept Note was prepared and circulated to encourage discussions to create a North East Scotland Green Network (NEGN) with neighbouring stakeholders. A proposed catchment project brief is currently being prepared ahead of a forward planning meeting in late 2015. The NEGN will complement the Angus Council strategy work.
C&NH.10	Encourage the creation and implementation of an Open Space Strategy and quality	Communities – Planning		Non quantifiable.	Leisure Services project supported by Planning has seen some advancement in 2013/14. A mapping

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
	audit map to cover all open spaces within Angus, whether public or private, hard, soft or water landscapes.	Leisure Services Parks & Burial Grounds			exercise to be carried out using ARC9 GIS would be useful. Brief being written to appoint consultants to undertake Open Space Audit and Strategy - Completion Anticipated Summer 2016.
Water Action Plan					
Main Objective: <i>Promote issues such as sustainable water use practices not only in Angus Council's premises but in the wider community, the importance of water quality improvement on ecosystem health and the awareness of fluvial and coastal flood risk prevention measures.</i>					
W.1	Raise awareness of the implications of the impacts of climate change on the water environment of Angus.	Communities – Planning River South Esk Catchment Partnership Roads	Ongoing	Non quantifiable.	Ongoing projects carried out by the River South Esk Catchment Partnership (see W.3 & W.4), Tayside Biodiversity Partnership and Tay Estuary Forum. Shoreline Management Plan 2 due to go to consultation.
W.2	Ensure that wetlands are seen as a key component in sustainable management for climate change mitigation and habitat restoration.	Communities – Planning River South Esk Catchment Partnership Roads	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> Ongoing projects carried out by the River South Esk Catchment Partnership (see W.3 & W.4), Tayside Biodiversity Partnership and Tay Estuary Forum. Local Flood Risk Management Strategies being developed. The Tayside Biodiversity Partnership provided a training session for staff on "Design & Management of Sustainable Urban Drainage Systems for Biodiversity (Autumn 2014). This highlighted their importance for sustainable management, climate change mitigation and habitat restoration. A further TBP training session was also provided in the autumn of 2014 "Mitigation Measures to Safeguard Amphibians: Amphibians in Drains". Local Flood Risk Management Strategies to be published by SEPA in December 2015. Angus Council to prepare Local Flood Risk Management Plans for publication June 2016 these will identify areas where Natural flood Management measures may be possible.
W.3	Manage flooding in freshwater and coastal environments which may have negative impacts on cultural heritage and landscape	Communities – Planning River South Esk	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> Brechin FPS is under construction to be complete March 2016. Arbroath FPS submitted to SEPA for national prioritisation in the Flood Risk

Ref No	Action	Lead Dept/Service	Timeline	Annual Emissions Reduction (tonnes CO2)	Progress
	and local access provisions.	Catchment Partnership Roads			<p>Management strategy. SEPA flood risk management strategies have characterised the risk of flooding to sites of cultural heritage in order to better understand the problem. Actions to further develop this understanding will be identified within the flood risk management plans to be published in 2016.</p> <ul style="list-style-type: none"> • River South Esk Catchment Partnership- • The Esk Rivers & Fisheries Trust (ERFT) leads on projects that can mitigate against climate change impacts. • Contour Planting Glen Clova: the pilot project has been completed with two sites planted and a third site fenced off to encourage regeneration of alders. An EIA is being finalised and investigation of future funding underway. • EU LIFE Project: Small areas of planting have been completed on Rottal Estate and will contribute to natural flood management and reduced sediment transport • Natural Flood Management: the ERFT is investigating with the Forestry Commission and Scottish Government the opportunities for a survey of NFM opportunities within the catchment. The objectives support FM investigations focusing on communities being undertaken by Angus Council as well as reduction in erosion of the mainstem and habitat degradation.
W.4	Ensure improved resilience of river ecosystems, catchments and the lochs within those catchments.	Communities – Planning Roads	Ongoing	Non quantifiable.	Ongoing works (see W.3). Environmental Strategy Project Officer has had regular contact with national organisations such as SNIFFER, Adaptation Scotland, SNH and SEPA and assists in the development of projects as listed in W.3 above. The aforementioned projects contribute to reducing peak river flow, improving water quality, mitigating against climate change impacts and improve access for the catchment community to enjoy water and wetland environments.

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W.5	Ensure that policy makers and decision takers are well informed of the implications of climate change in the marine environment.	Communities – Planning Roads	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> Shoreline Management Plan 2 due to go to consultation. Climate change is addressed. The proposed Angus Local Development Plan contains a policy (PV16) Coastal Planning which aims addresses this action. A note to be prepared for the Communities Committee outlining the main points of the Scottish marine plan and Information available on climate change implications.
Planning & Built Environment Action Plan Main Objective: <i>To guide development and changes in land use, in a sustainable manner that can best serve the needs of communities throughout Angus</i>					
P&BE.1	Maintenance of a national overview of the effects of renewable energy developments on the natural heritage.	Communities – Planning	Ongoing	Non quantifiable.	<p>The Proposed ALDP includes:</p> <ul style="list-style-type: none"> <u>Policy PV9 Renewable and Low Carbon Energy Development</u> will support in principle developments which satisfy a number of criteria including – no unacceptable adverse impact individually or cumulatively on landscape character, sites designated for natural heritage (including birds), scientific, historic, cultural or archaeological reasons. The ALDP also includes Policies PV4 Sites Designated for Natural Heritage and Biodiversity Value; PV5 Protected Species; PV 6 Development in the Landscape; and PV8 Built and Cultural Heritage as primary policies for protection of Natural and Built Heritage assets.
P&BE.2	Maintenance of dialogue with the renewable energy industry, Scottish Government and wider stakeholders, ensuring that natural heritage interests are safeguarded.	Communities – Planning	Ongoing	Non quantifiable.	<ul style="list-style-type: none"> Consultation has been ongoing with a wide range of stakeholders, including the renewable energy industry, throughout preparation of the Angus Local Development Plan. Further consultation with stakeholders will take place through preparation of Supplementary Guidance on Renewable and Low Carbon Energy Development which will include a spatial framework for wind farm development. On-going dialogue and consultation with a range of stakeholders in considering development proposals for renewable energy development

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P&BE.3	Planned, designed and managed new development which supports active travel and reduces Angus' overall carbon footprint.	Communities – Planning	Ongoing	Non quantifiable.	<p>through the development management process.</p> <p>The Proposed Angus Local Development Plan (February 2015) development strategy directs the majority of development to accessible and sustainable locations within the existing hierarchy of settlements. The Proposed ALDP also includes:</p> <ul style="list-style-type: none"> • <u>Policy DS2 Accessible Development</u> seeks to promote development in accessible locations with opportunity to access a range of facilities and services by a range of modes of transport including sustainable transport and active travel, giving priority to walking and cycling for local journeys and to public transport in preference to travel by private car. • <u>Policy DS3 Design Quality and Placemaking</u> which seeks to deliver high quality of design standard in new developments and draw on local landscape and townscape character. Development proposals should create buildings and places which are distinct in character and identity, safe and pleasant, well connected, adaptable and resource efficient. The Policy will be supported by Supplementary Guidance on a range of design matters.
P&BE.4	The urban areas of Angus are planned to enhance opportunities to enjoy the outdoors and support environmental services and enhanced ecological connectivity.	Communities – Planning	Ongoing	Non quantifiable.	<p>The Proposed Angus LDP includes:</p> <ul style="list-style-type: none"> • <u>Policy PV1 Green Networks and Green Infrastructure</u> seeks to protect, enhance and extend wildlife, recreational, amenity, landscape, access and flood management value of the Green Network which consists of a network of green infrastructure and open space within and around towns, with links to the open countryside. A Planning Advice Note will be prepared to identify the Angus Green Network and provide detailed guidance on how it can be extended and enhanced, including opportunities for improved connectivity. • <u>Policy PV2 Open Space Protection and Provision in Settlements</u> which seeks to protect and

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					enhance existing areas of open space of sporting, recreational, landscape, wildlife, amenity, food production, and access and flood management value. New development will be expected to provide and/or enhance open space provision. All new open spaces should be publicly accessible and wherever possible contribute to the enhancement and connectivity to a wider Green Network.
P&BE.5	Maintenance of a watching brief on climate change scenarios and the consequent direct and indirect impacts on Angus' landscapes.	Communities – Planning	Ongoing	Non quantifiable.	Environmental Strategy Project Officer has continued to work with organisations such as UKCIP, Adaptation Scotland, SNH, SEPA the Cairngorms National Park Authority and the River South Esk Catchment partnership on climate change mitigation and adaptation projects. Many focus on future climate scenarios and landscape scale management of ecosystems, and individual habitats and species.

Ref No	Action	Lead Dept/Service	Timeline	Progress
Adaptation				
Main Objective: <i>To prepare, plan and adapt to the changing weather patterns in Angus in an effort to reduce and manage those impacts, especially on those most vulnerable in our community.</i>				
A.1	To embed climate change into corporate plans, improvement plans, action plans, and service plans and to measure and record the outcome of these plans.	Chief Executive's Planning	Ongoing	The effects of climate change and adaptation and mitigation measures continue to be recognised in the planning documents across services. The Climate Change Strategy Annual Report is a key mechanism for reviewing corporate activity. Many actions are influenced by or contribute to key elements of Scottish Government environmental policy and strategies such as the Land Use Strategy for Scotland; 2020 Challenge for Scotland's Biodiversity; Climate Change (Scotland) Act 2009; The Flood Risk Management (Scotland) Act 2009; Water Frame Work Directive River Basin Management Plans National Performance Framework National Outcomes and the Angus (Single Outcome Agreement 2013-16).
A.2	To incorporate climate change impacts within Committee reports.	Chief Executive's	Ongoing	The review of committee reports gave consideration to this, but in consultation with elected members it was decided to move away from additional impact reporting and indeed simplify the report template as far as possible. There is however an expectation that report authors will look to record climate change issues in report and recommendation writing.

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A.3	To influence the culture of the organisation in relation to training and awareness raising of climate change issues and how all services can contribute to climate change adaptation.	Climate Change Strategy Working Group Chief Executive's	Ongoing	E-learning module for staff training on sustainable development & climate change issues now available on staff intranet – 201 members of staff have completed this module. E-learning module also available for Energy as part of the Energy Management Unit's "Change Today: Save Tomorrow" awareness raising campaign – 125 users have completed this module.
A.4	To develop skills and capacity building across the Council, investment is required in skills, e.g. how do we measure greenhouse gas emissions? How do we reduce carbon? How do we monitor trends?	Climate Change Strategy Working Group	Ongoing	Methods of measuring climate change reduction efforts are still to be developed for some areas. Maintain a watching brief for emerging methodologies. Carbon calculators are available for calculating emissions for transport, energy and waste from Defra/DECC.
A.5	More effective community engagement in relation to climate change mitigation and adaptation in Angus.	Climate Change Strategy Working Group Community Planning Partners	Ongoing	<ul style="list-style-type: none"> A new bus route linking Dundee and Stracathro Hospital via Forfar and Brechin was launched on 19 January 2015. The Angus Health & Transport Steering Group developed 'Angus on the Go'- a branding to promote all aspects of active travel across all Angus communities. The four priorities are: awareness raising, education, participation and connectivity. A bid (£107,000) to the Smarter Choices, Smarter Places fund for 2015/16 has been successful and a number of initiatives are planned over the course of the year to promote active travel across Angus.
A.6	Increase the use of SUDS in new developments.	Communities - Planning	Ongoing	Investigation of and the use of SUDS (where appropriate) is now a requirement for every development. Methods of collating this information are being considered. The Tayside Biodiversity Partnership has audited the Perth & Kinross SUDS for their biodiversity value and it is proposed a similar project is rolled out in Angus during 2016.
A.7	Effective adaptation and mitigation measures which set integrated objectives to establish resilient ecosystems for people and wildlife.	Communities - Ranger Service Parks & Burial Grounds Ranger Service Ranger Service/SNH/TVF Ranger Service	Ongoing Ongoing Ongoing Annually Ongoing Completed Completed Ongoing	<ul style="list-style-type: none"> Funding from the Angus Environment Trust has enabled works to be carried out at Elliot SSSI to reduce invasive species and protect the natural habitat through the use of boardwalks, paths and interpretative signage. Forfar Loch Country Park Garden Project – create pond & marshland habitats. Forfar Loch Country Park, Going the Whole Hog project – To encourage Schools to create Hedgehog habitats, with Grant Aid from AET. Monikie Country Park Meadow Project – wildflower meadow, small woodland. Monikie Country Park, Toad Crossing – Mitigating measures on roads to protect annual amphibian migration with Grant Aid from AET. Crombie Country Park, Peddieston West Heathland Restoration – Removing scrub/non native species. Crombie Country Park, Creation of Dragonfly Pond and viewing platform with Grant Aid from Froglife. ID Training sessions for staff & Public evolved as part of project. Crombie Country Park, Squirrel Hide and feeding area with Grant Aid from AET Partnered A/C Waste Management & Nicki Souter Associates to roll out Prevent & Pick Up litter campaign: Presentation at School assemblies.

Ref No	Action	Lead Dept/Service	Timeline	Progress
			Ongoing	Engagement with Young People in streets around Forfar Academy. Engagement with the Public at the West Links, Arbroath.
			Ongoing	<ul style="list-style-type: none"> Brechin Flood Defence Scheme: Taken on as Consultants by A/C Roads to advise on a planting regimes, construction of wildlife habitats and engagement with Local Schools and Communities.
			Completed	<ul style="list-style-type: none"> Pearls in Peril (PiP), South Esk In-stream Restoration: In partnership with PiP, SNH, CNPA,SEPA, and Landowners to provide information to Local Communities and Visitors to Glen Clova
			Ongoing	<ul style="list-style-type: none"> Relocation of Outdoor Education team and equipment to Monikie Park, thus reducing travel time to Clients and consequently fuel consumption.
			Ongoing	<ul style="list-style-type: none"> Angus Community Orchard Project – 1000's of native fruit trees planted around Angus. Angus Council produced a colourful advisory leaflet on fruit tree maintenance which is now widely distributed to schools, local community groups and allotment groups. The latest project (AET-funded): the planting, by volunteers, of the Monifieth Community Orchard 2014-15.
			Ongoing	<ul style="list-style-type: none"> Grass Cutting Regimes (Country Parks) – improve wildflower diversity.
			Ongoing	<ul style="list-style-type: none"> The Tayside Biodiversity Partnership prepared a report for Angus Council Roads ahead of its three year verge management contracts. This enabled liaison with local community and environmental organisations and specific advice from botanists with regard the species-rich verges in the Glens.
			Ongoing	<ul style="list-style-type: none"> Monifieth Wildflower Meadow
A.8	Angus Council will fully engage with Scottish Environment Protection Agency (SEPA) in the setting of actions to be included within flood risk management plans.	Communities – Roads	2015	Local Flood Risk Management Strategies have been consulted on and will be published in December 2015. Angus Council has had a strong role in overseeing and agreeing the content of the strategies with all stakeholders and responsible authorities.
A.9	Angus Council will participate fully in the establishment of partnerships and advisory groups under the Flood Risk Management (Scotland) Act 2009 and subsequent decisions made.	Communities – Roads	2012 onwards	Local advisory group, local district partnerships and sub-groups established.
A.10	Angus Council will prepare a schedule of clearance and repair works.	Communities – Roads Tayside Biodiversity Partnership	2012 onwards	<ul style="list-style-type: none"> Schedule is available on request from Roads. Agreement to install wildlife kerbs in confirmed amphibian migration hotspots during maintenance and new development works. Potential currently being explored for amphibian ladders to be installed in confirmed amphibian migration hotspots.
A.11	Angus Council will prepare maps of water bodies and Sustainable Urban Drainage Systems (SUDS).	Communities – Roads	2012 onwards	Maps of watercourses and water bodies complete, work to map surface water culverts and SUDs on-going.
A.12	Angus Council will work with the local	Communities –	2012 onwards	Local advisory group, local district partnerships and sub-groups established. The

Ref No	Action	Lead Dept/Service	Timeline	Progress
	district partnerships to develop Flood Risk Management Plans.	Roads		Local Advisory Group (note capitals as this is a specific entity who have a formal 'advisory' capacity to the local plan partnerships) has a broad membership of both local Authorities and businesses and other bodies. They are a means to seek broader views from those with a national or regional perspective. Roads attend the meetings held every 3/6 months.
A.13	Angus Council will work with the local district partnerships to develop and publish Flood Risk Management Plans.	Communities – Roads	December 2015 onwards	Angus Council as Lead Local Authority for the Tay Estuary and Montrose Basin Local Plan District are currently developing Flood Risk Management Plans for Publication in July 2016.
A.14	Angus Council will work with the local district partnerships p to develop and publish the Local Flood Risk Management Plans.	Communities – Roads	June 2016	Initial development of the Local Flood Risk Management Plans has commenced. Draft Plans consulted on from March-June2015. Plans then developed further based on consultation responses.
A.15	Angus Council will begin implementing the measures in Local Flood Risk Management Plans.	Communities – Roads	June 2016	To begin (see A.14 above).
A.16	Provide policy and technical advice on the provision and management of paths and infrastructure in response to climate change or changing patterns of recreation resulting from climate change.	Communities – Planning	Ongoing	Ongoing. Angus Council staff provided technical advice to Scottish Wildlife Trust to enable them to reopen the coastal path at Seaton Cliffs following erosion caused by extreme weather events. Access staff participated in networking event regarding managing paths in response to climate change.
A.17	Adaptation measures to ensure the movement of species through the Angus landscape and fresh waters in response to climate change is supported.	Communities – Planning River South Esk Catchment Partnership Tayside Biodiversity Partnership Parks & Burial Grounds	Ongoing	Tayside Biodiversity Partnership and Tay Estuary Forum. Discussions are under way to create a North East Scotland Green Network with neighbouring stakeholders. Biodiversity enhancement to be carried out as part of the Brechin Flood Prevention Scheme works has been identified. http://theriversouthesk.org/ http://www.taysidebiodiversity.co.uk/
A.18	Promote action to support biodiversity adaptation such as habitat networks, and to promote adaptation measures that work with natural processes.	Communities – Planning Parks & Burial Grounds	Ongoing	Ongoing projects carried out by the River South Esk Catchment Partnership, Tayside Biodiversity Partnership and Tay Estuary Forum. Discussions are under way to create a North East Scotland Green Network with neighbouring stakeholders. Biodiversity enhancement to be carried out as part of the Brechin Flood Prevention Scheme works has been identified. http://theriversouthesk.org/ http://www.taysidebiodiversity.co.uk/
A.19	Promote adaptation and mitigation measures that enhance the sustainability of the use of natural resources.	Communities – Planning	Ongoing	Silver Timber Pledge Award achieved – Montrose Sports Centre – sustainable wood sourced and used.
A.20	Ensure those areas most vulnerable to rising sea level and/or storm surge and wave overtopping are identified to improve understanding, management and policy	Communities – Planning Roads	Ongoing	Shoreline Management Plan 2 due to go to consultation. The proposed Angus Local Development Plan contains a policy (PV16) Coastal Planning which aims addresses this action.

