

ANGUS COUNCIL

STRATEGIC POLICY COMMITTEE – 19 MARCH 2013

SCOTLAND'S CLIMATE CHANGE DECLARATION ANNUAL UPDATE REPORT

JOINT REPORT BY THE DIRECTORS OF INFRASTRUCTURE SERVICES
AND CORPORATE SERVICES

ABSTRACT: This annual report for 2012 highlights progress made by the Council regarding its work to reduce its climate change impacts to meet its commitments of the Scottish Climate Change Declaration.

1. RECOMMENDATION

It is recommended that the Committee approve the contents of this report for submission to the Sustainable Scotland Network and CoSLA.

2. BACKGROUND

2.1 In February 2007 Angus Council signed Scotland's Climate Change Declaration which committed the council to a number of actions to reduce its impact on climate change. One of those actions is to produce an annual report on progress. Angus Council's first Climate Change Declaration report was approved by the Strategic Policy Committee in October 2009 (report 773/09 refers) and last year's report was submitted to the same committee in March 2012 (213/12 refers).

2.2 The Declaration contained seven commitments and these are listed below:-

- (A) Work with the Scottish Government and the UK government to contribute to the delivery of Scotland's and the UK's climate change programmes, including to reduce greenhouse gas emissions and to adapt to future climate change scenarios.
- (B) Produce and publicly declare a plan, with targets and time-scales, to achieve a significant reduction in greenhouse gas emissions from our own operations. This will include our energy use and sourcing, travel and transportation, waste production and disposal, estate management, procurement of goods and services, and improved staff awareness.
- (C) Ensure that greenhouse gas reduction and climate change adaptation measures are clearly incorporated into our new and existing strategies, plans and programmes, in line with sustainable development principles.
- (D) Assess the risks and opportunities for our services and our communities of predicted climate change scenarios and impacts, and take action to adapt accordingly and in line with sustainable development principles.
- (E) Encourage and work with others in our local community to take action to adapt to the impact of climate change, to reduce their own greenhouse gas emissions and to make public their commitment to action.
- (F) Publish an annual statement on the monitoring and progress of our climate change response, detailing targets set, actions taken, outcomes achieved and further actions required.
- (G) Collaborate with other organisations to promote good practice of climate change mitigation and adaptation.

2.3 This report is to provide an update on year 5 progress as requested by COSLA by the end of March 2012 and will be subsequently published on the Sustainable Scotland Network's (SSN) website in due course.

3. CURRENT POSITION

3.1 The Sustainable Scotland Network developed a template for reporting purposes and the update on actions are provided in this form on **Appendix 1**.

4. RISKS

4.1 Failure to produce an annual report would result in the Council failing to meet commitment (f) of Scotland's Climate Change Declaration.

5. FINANCIAL IMPLICATIONS

5.1 There are no financial implications arising from this report.

6. HUMAN RIGHTS IMPLICATIONS

6.1 There are no human rights implications arising from this report.

7. EQUALITIES IMPLICATIONS

7.1 The issues contained in the report fall within an approved category that has been confirmed as exempt from an equalities perspective.

8. SINGLE OUTCOME AGREEMENT

8.1 This report contributes to the following local outcome contained within the Single Outcome Agreement for Angus.

- Our carbon footprint is reduced.

9. CONSULTATION

9.1 The Chief Executive, Head of Finance, Head of Property and Head of Law & Administration have been consulted in the preparation of this report.

10. CONCLUSION

10.1 The attached template (**Appendix 1**) shows the council is making reasonable progress in its efforts to meet its commitments outlined in Scotland's Climate Change Declaration.

COLIN MCMAHON
DIRECTOR OF CORPORATE SERVICES

ERIC S LOWSON
DIRECTOR OF INFRASTRUCTURE SERVICES

NOTE: No background papers, as defined 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.

P&T/GWC/RManson/IAL
19 February 2013

Scotland's Climate Change Declaration – Angus Council 2012 Update

Section 1 **Governance, Leadership and Management**

The Community Plan and Single Outcome Agreement for 2011-14 outlines the five priority areas that the community planning partnership has agreed to focus on to support the partnership vision:

'Angus is a place where a first class quality of life can be enjoyed by all'.

The plan also identifies the local outcomes which are based around the partnership's five priorities to improve quality of life and opportunities for individuals, families and communities in Angus. They also contribute towards the Scottish Government's national outcomes.

The partnership priority 'Communities that are Sustainable' is overseen by the Angus Rural and Environment Partnership (AREP), which is chaired by Angus Council's Head of Planning and Transport.

The Community Plan and Single Outcome Agreement is reported publicly twice per year, and the Mid Year Performance Report 2012/13 includes the following progress against actions:

Action	Mid Year Progress
We will encourage sustainable development through the Strategic Plan for Tayside 2012-2032	The Strategic Development Planning Authority has commenced preliminary work in connection with TAYplan2. The Council continues to contribute to this process.
We will facilitate the publication of the draft Angus local development plan in 2012	The Angus Local Development Plan Main Issues Report, Environmental Report and Local Plan Review Monitoring Statement were published for public consultation purposes on 2 November 2012.
We will encourage sustainable development through the Local Housing Strategy	The completed Local Housing Strategy 2012-2017 is to be submitted to the Scottish Government for formal signoff. Its three local priorities are: to increase housing supply, access and choice; to provide special needs housing and housing support; and to improve the quality of housing, and make it energy efficient and easy to heat. An annual review will be carried out, with the expected completion date of the first being 31st December 2013.
We will support the development and implementation of the TACTRAN Regional Transport Strategy	A stakeholder workshop was held on 24 August 2012 which fed into the development of a draft Angus Health & Transport Action Plan which will put into effect the regional Health & Transport Framework.
We will conserve and enhance the variety of landscape character and environmental quality in Angus	Angus Council, in partnership with Aberdeenshire Council and Scottish Natural Heritage, are undertaking a landscape capacity study in Strathmore in relation to wind turbines. Consultants have been appointed and will report early 2013 in relation to the capacity of the landscape to accommodate renewable energy projects.
We will support The River South Esk Catchment Management Plan	The Rottal Burn restoration has been completed, with additional native tree planting carried out on the site. The catchment has been promoted in local and national publications, including a Tayside-wide education guide. 5000 invasive species and biodiversity guides have been distributed, and links have been made with the wider environmental community. The Invasive Non-Native Species (INNS) Project continues.

We will implement the Angus Woodland and Forestry Framework	Progress on implementation continues with partners.
We will promote and support environmental volunteering	36 events took place in Angus for 'National Spring Clean' in April and May, involving 2,155 children and 373 adults. As part of the Marine Conservation Society National Beach Survey in September, 10 beaches were surveyed, with 97 volunteers taking part. The Monifieth Eco Fest Group ran a Conservation Programme from April to October that included wildflower planting, wild food forage, balsam bashing and beach cleans. They received a Bronze Award from Scotland in Bloom and are aiming for the Silver award next year. The Healthy Happy Communities' Allotment in Arbroath took part in the It's Your Neighbourhood Award run by the Royal Horticultural Society and Beautiful Scotland and achieved the Thriving Level Award.
We will increase the number of schools achieving Eco-school awards at all levels	Completed. All schools are Eco-school registered, as are off-site centres and a growing number of private and voluntary pre-school providers. The number of schools achieving Bronze, Silver, Green Flag and Second Green Flag has increased at each of these levels.
We will develop a Climate Change Strategy and Action Plan	Completed. Six of the Rural and Environment Partnership members currently have a Climate Change Strategy in place. Angus Council Climate Change Strategy and Action Plan agreed on 6 December 2011
We will implement a Carbon Management Plan	Tactran, at its December 2012 meeting, is considering a transport carbon assessment report which relates to climate change duties. Tactran will work with constituent councils to develop a transport carbon assessment framework. Energy Consumption and Carbon Dioxide Emissions for Angus Council are both slightly above profile at mid-year. This can be mainly attributed to the colder weather experienced so far in 2012/13 compared to the same period in 2011/12.
We will implement Zero Waste Plan	Further work is underway to 'future proof' sustainable waste disposal measures in light of the new Waste (Scotland) Regulations 2012. A working group has been set up between Angus and Dundee City Councils to look at the future of processing residual waste via Dundee Energy Recycling Limited (DERL). A trial of a new kerbside collection service began in Sept 2012. The trial is to last 6 -12 months after which a decision on the full roll-out is expected.
We will develop and implement travel Plans	Four employers are registered with travelknowhow - Angus Council, Angus College, Dundee and Angus Chamber of Commerce, and Arbroath Infirmary. Further contacts are being made to encourage other employers to register.
Indicators in the Community Plan & Single Outcome Agreement 2011-14 include:	
Reduce the tonnage of CO ² /capita by at least 42% by 2020	There has been a slight rise in the per capita emission estimates for Angus in 2010 (the latest available estimate) to 7.8%, failing to meet the target reduction of 7.6%. This increase is mirrored by an increase in the Scotland total per capita figure, from 6.8% in 2009 to 7.2% in 2010.
Increase the % of council house dwellings that are energy efficient to 96%	There has been little change over the past three years. The figure of 94.32% for 2011/12 fell slightly short of the target of 96%, however Angus has always been well above the Scottish average (74.9% in 2010/11).

The Carbon Reduction Member/Officer Group which was established in 2010 to manage arrangements to fulfil the requirements of the Carbon Reduction Commitment Energy Efficiency Order 2010 last met in August 2012 where a number of reports were presented for discussion including:

- **Carbon Management Action Plan** – included an update of the CMAT (Carbon Management Assessment Tool) Workshop Report and progress on actions identified to improve the Council's position some of which are highlighted in the table below:

Enabling Actions Identified	Status
Put together a working group to identify targets & actions (Carbon Action Plan or Climate Change Action Plan)	Complete. Working group established.
Set targets to 2020 & 2050 that align with Scottish Government targets.	Complete.
Publish carbon reduction target & have strategy to implement (funded & supported).	2020 target published. Revised strategy under development.
Implement a 10-year action plan.	Current strategy ongoing and delivering progress. Revised action plan to be progressed when available.
Assign Carbon Reduction Manager who co-ordinates the task & targets, assisted by additional staff to monitor & record statistics & improvements.	Complete. Senior Energy and Maintenance Manager and the Energy Management Unit.
Quantify carbon targets in departmental asset management plans & identify actions and projects for improvement.	Overall departmental targets established within the 2011/12 & 2012/13 Final Budget Outcomes. Reduction strategy and projects programme under development.
Survey estate for potential retrofit of renewable technology, & fund & implement identified improvements.	Generation of Renewable Energy policy review report to be considered by the Corporate Services Committee. Renewable Energy (RHI and FIT) Projects report being submitted to Carbon Reduction Commitment Member/Officer Group.
Carbon Reduction Management & staff report via council Intranet. Also communications via Internet, press releases, local press & advertising on council vehicles.	Education and Awareness training being finalised for the CRC Scheme footprint. Sustainability and energy management website operational. Articles to Angus Matters.
Develop data management system so that data from each service is fed monthly to a data responsible person.	AMR data gathered for 72% of the CRC Scheme footprint supplemented by bill information and end-of-year meter reads. Appropriate information made available at each level. Quarterly performance reports established and operational in 2012/13.
Use structures, staffing & procedures already in place to record & monitor carbon emissions to meet performance indicators.	Carbon Reduction Working Group established Carbon Champions and Energy Awareness Reps to be finalised. Reports operational.
Provide training to designated officers on carbon issues & how to set targets, & how this impacts on budgets & practical project delivery.	Education & Awareness training being finalised for the CRC Scheme footprint integrated with current reduction project strategy. Energy awareness training to staff underway late 2012.

Section 1 Priorities for the Year Ahead

- Continued carbon reducing measures.
- Investigating effects of climate change.
- Transport developments.
- Sustainable regeneration.
- Encouraging wider use and enjoyment of natural environment in Angus.
- Expansion of woodland in some areas of Angus.
- Potential longer growing season.
- Diversification.
- Data gathering and developing the Council's first annual Climate Change Report.
- Setting up Carbon Champions in each department.
- Implementing the actions proposed by the Carbon Reduction Member/Officer group and the Carbon Reduction Working Group.

- Implementing the projects in the Carbon Management Programme.
- Continue to meet our commitments with regard to the Carbon Reduction Commitment and the Carbon Trust Standard.
- Achieving the Silver Timber Pledge Award.

Section 2

Reducing the local authority's own direct greenhouse gas emissions from their estate and services.

In May 2008 the Strategic Policy Committee approved the Council's first Carbon Management Programme (CMP). As stated in Section 1 above, the CMP was reviewed in 2011 and a new plan brought forward. Actions within the new CMP include:

Action Plan - Projects	Action Taken
1. PC Monitors and workstations in schools and offices (Phase 1: 4,000 computers; Phase 2: 3,000 computers).	Computers shut down in all (8) secondary schools at end of the day, and when not in use at break and lunchtimes from August 2009. Pupils can only shut down not log off. Over 2,000 computers in Sec schools. Similarly in all new primary schools. Trial underway in 2010 with 2 primary schools but not taken up by others due to potential charges for installation. The introduction of "Citrix" thin client within offices will reduce the energy consumption and will enable the base units to be managed externally.
2. Printers.	Completed.
3. 7 day timers on printers and computer peripherals, photocopiers, vending machines, water coolers, microwave ovens, coffee machines.	Completed.
4. Change from Quarterly meters to Half Hourly metering (Phase 1 and Phase 2) 350 units.	Completed.
5. Energy Saving Awareness programme.	The programme started in March 2012 with training for Building Managers and followed on with training for all office based staff which commenced in November 2012 and will continue into 2013/14. As an additional aid an E-learning package is being developed by a consortium of Scottish Local Authorities.
6. Installation of biomass boilers.	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 CO ₂ per annum.
7. Conversion of T12 (36mm bulbs) to T8 (24mm bulbs - uses less energy than T12 bulbs).	Completed.

8. Installation of voltage optimization equipment in 20 buildings.	Installation has now occurred in 20 buildings. Evaluation of the savings created from this project is ongoing.
9. Draught proofing of buildings.	Completed.
10. Energy management arrangements.	New Member/Officer Steering Group and a Carbon Reduction Working Group were established in 2011. 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.
11. Implementing a staff Travel Plan.	<p>Various ongoing actions undertaken, e.g. promoting car sharing through:</p> <ul style="list-style-type: none"> • AngusLiftshare.com (441 members by December 2012), • Car share parking bays at main offices (50 car share badges have been issued to staff); <p>Promoting cycling through:</p> <ul style="list-style-type: none"> • Cycle to Work Scheme (41 members of staff joined in April/May 2012), • Pool Bikes for staff, • Commuter cycle training for staff, • Bike Week events.

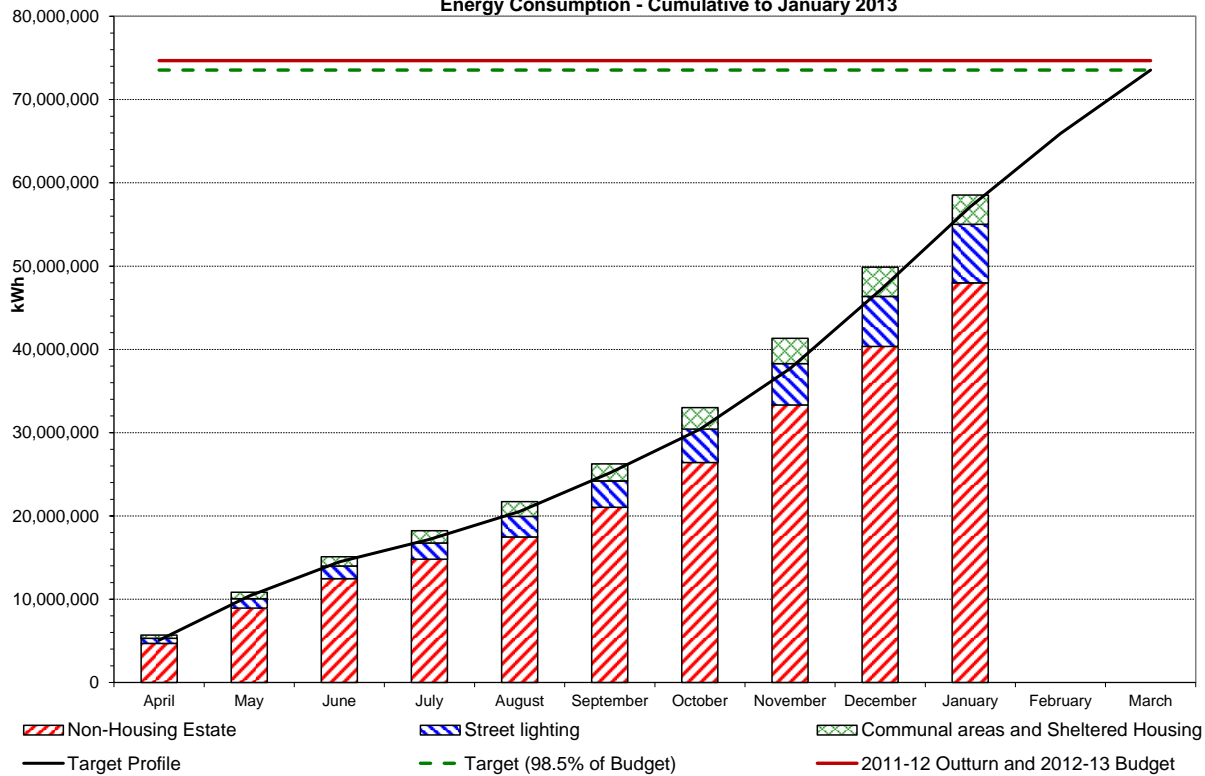
Energy Consumption and Carbon Dioxide Emissions (CRC) End of Year Report 2011/12

- Angus Council has an annual corporate carbon dioxide emissions reduction target of 2.5% p.a. which has the potential to achieve a 22.5% reduction by 2020 when compared to a 2010/11 base.
- An annual corporate energy consumption (energy efficiency) target of 1.5% p.a. which has the potential to achieve a 13.5% reduction by 2020 when compared to a 2010/11 base.

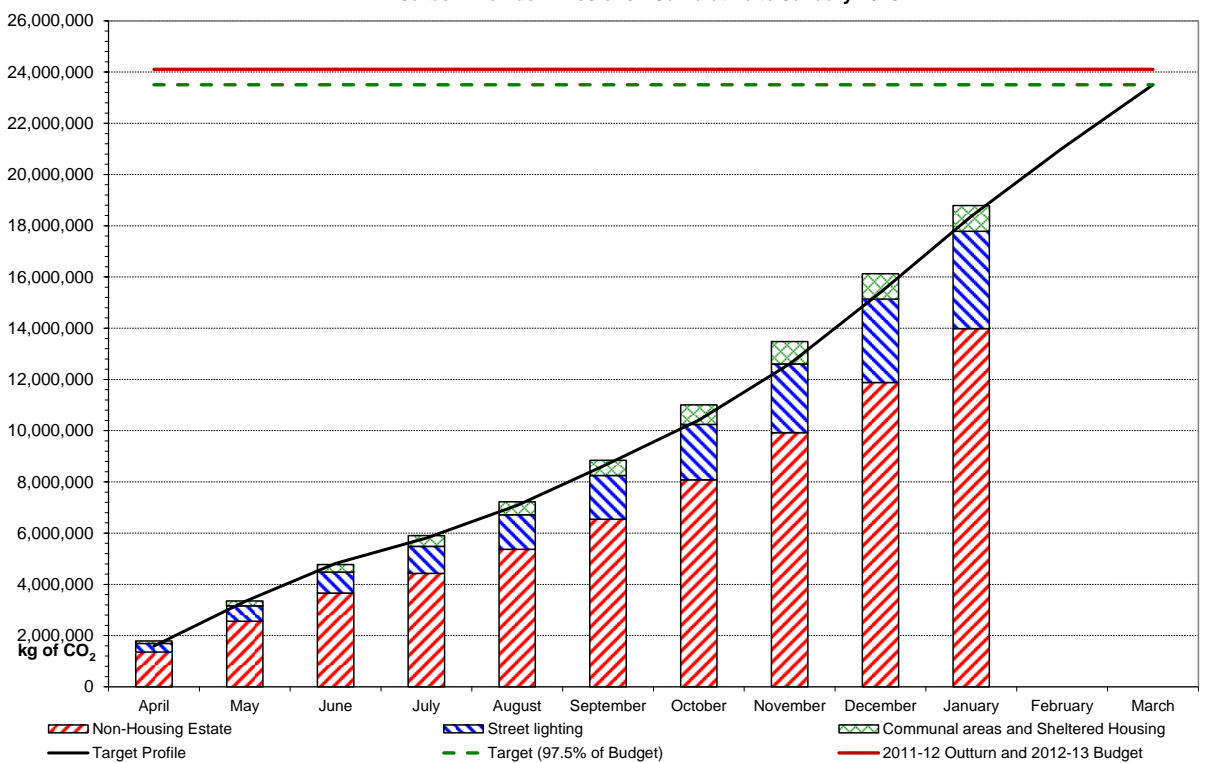
The profiles adopted for energy consumption and carbon dioxide emissions for street lighting and communal areas and sheltered accommodation were developed through monitoring during 2010/11 and have been refined during 2011/12 utilising the energy consumption and carbon dioxide emissions data gathered during the year. This will enable the profiles to become more representative for 2012/13 and future years.

The Property Division has achieved significant progress in reducing the energy consumption and carbon dioxide emissions from non-housing Council properties, particularly the significant increase in energy consumption and carbon dioxide emissions resulting from the massive investment in Information and Communications Technology (ICT). Achieving improved energy efficiency and reducing both energy consumption and carbon dioxide emissions is a corporate objective and fulfilling statutory targets is a collective responsibility.

Energy Consumption - Cumulative to January 2013



Carbon Dioxide Emissions - Cumulative to January 2013



Other actions taken which were not part of the Carbon Management Programme are listed below:

Infrastructure Services: Reducing the Energy Consumption of Street Lighting

The partnership arrangements between the council and Tayside Contracts have continued in the provision of street lighting services and efficiencies are emerging in the co-ordination of the work between the design and supervision staff and the operational teams. The street lighting stock and associated equipment have continued to be replaced as they reach the end of their serviceable lives. A continuing programme of replacement with newer technology components and the selective application of adaptive levels of lighting has reduced the carbon footprint and energy consumption of these parts of the services, notwithstanding that increases in the energy tariffs have continued to put pressure on the costs of these services.

The council have been reducing the energy consumption of street lighting both in terms of reducing the corporate carbon footprint and its energy costs through the following methods:

- **Variable Road Lighting Levels (Dimming)** – Over 950 units have now been installed within schemes utilising dimmable control gear.
- **White Light in Residential Areas** – British Standard (BS5489) allows a reduction of one lighting class in residential areas if a light source has a colour rendering index (Ra) of greater than 60. This is deemed as “white light”. The council is continuing their programme of replacing existing “orange light” which have a low colour rendering index with these lamps and these now accounts for 40% of the Angus Council lighting stock.
- **LED (Light Emitting Diode)** – Over 700 lighting units have now been installed either within new schemes or ‘luminaire only’ conversions with proposals to install more in future years as their development improves.
- **Photo Electric Cells** - Switching on and off times of lighting is generally controlled by a photocell that brings the lights on when the level of daylight drops below a pre- set level and switches them off again the next day when the level of daylight increases. Existing photocells installed in Angus are calibrated to switch on at 70 lux. New installations and replacement units are calibrated to switch on at 35 lux offering an energy saving against the existing switching regime.

Although the overall carbon footprint for the lighting stock has reduced, the energy costs remains around the same as in the previous years due to the increase in the energy tariffs.

New Developments

The ongoing challenges in reducing electricity consumption and the associated carbon footprint remain as at the same time as energy savings are implemented on the existing lighting stock, the stock continues to grow due to commercial or residential developments adopted for maintenance purposes by the council. In order to mitigate the impact of these developments on the quantum of lighting stock owned by the council into the future, the council has now standardised the requirement for LED lights in all new developments.

Neighbourhood Services: Waste

The council's efforts to reduce the amount of waste going to landfill by increasing reuse/recycling, and composting are detailed in the table below:

Municipal Waste Incinerated and Other Recovery (Jan 2012-Dec 2012)

	Jan 12 - Mar 12	Apr 12 - Jun 12	Jul 12 - Sep 12	Oct 12 - Dec 12	Summary For Selected Periods
Municipal Waste Recycled or Reused (tonnes)	4,650	4,219	3,806	4,225	16,900
Municipal Waste Composted (tonnes)	1,515	3,331	4,328	3,058	12,232
Municipal Waste Landfilled (tonnes)	8,379	9,483	10,933	9,598	38,393
Municipal Waste Incinerated and Other Recovery (tonnes)	2,462	1,618	0	0	4,080
TOTAL ANGUS MUNICIPAL WASTE (Tonnes) =	17,008	18,651	19,067	16,881	71,607
% Recycled/Reused	27.34	22.62	19.96	25	23.73
% Composted	8.91	17.85	22.49	18.1	16.84
Combined Recycled and Composted	36.25	40.47	42.65	43.1	40.61
% Landfilled	49.26	50.84	57.33	56.85	53.57
% Incinerated	14.47	8.67	0	0	5.78

Recycling

Householders in selected areas of Carnoustie and Arbroath, and nearby rural areas were the first to take part in a new kerbside recycling trial. The trial involves around 5000 households and first collections for the majority of homes which began in September 2012.

New bins were delivered to households participating in the trial. A smaller purple bin for general waste and a brown food waste bin have been supplied, as well as a small kitchen caddy, also for food waste. Residents are being asked to use their grey bin - currently used for general waste - for collection of glass, plastic bottles, plastic containers, cans, paper and cardboard. The green bin collection for garden waste will remain unchanged for existing users, and this service is being newly introduced in Ballumbie and nearby rural areas. The number of bins has been kept to a minimum and compares favourably with those in other local authority areas.

Residents should find it will be easier to recycle more items from home as well as assisting the council to meet its recycling targets. The cost of sending waste to landfill sites is increasing every year, therefore, by recycling you are helping to save money on disposal costs, as well as helping the environment. The trial will run for six to 12 months and if it is successful, it is planned to roll it out throughout Angus

WEEE (Waste Electrical and Electronic Equipment)

Each Angus resident accumulates on average three new electrical items a year, but only one in five of those items will be recycled. As part of recycling week (18 June to 24 June), Angus Council aims to cut down on this waste and encourage local people to recycle their WEEE – waste electrical or electronic equipment. WEEE items such as kettles, toasters, hairdryers and games consoles, can be taken to any council recycling centre.

The council has joined forces with Repic established by leading producers of electrical and electronic equipment such as Panasonic, Bosch and Indesit, to deal with discarded electrical products. Each year Repic finances the recycling of around 50% of all the UK's electrical and electronic equipment, meaning there is no cost to the council for handling such items. A representative from Repic joined Angus Council officers at recycling centres during recycling week to promote this scheme and advise householders on what electrical goods can be recycled and what happens to these goods.

Across the country, 173 million new electrical items are bought each year, but are discarded once they are broken or unwanted. It is hoped that the council's efforts will see it being recognised once again at the Repic Awards. The authority has already won five gold, four silver, and one bronze award from Repic in 2011-12, in recognition of its achievements in collecting more than 1229 tonnes of electrical and electronic equipment.

Compost

Moves to sell surplus compost - produced from collected garden waste in Angus - to firms were agreed by Angus Council's Neighbourhood Services committee at their meeting on Tuesday 12 June. The sales will not only generate income but will also help the council's moves to meet recycling targets and reduce waste sent to landfill.

The council was issued with the industry standard certificate of conformity for compost- PAS100 – in December last year. This allows the compost to be regarded as a product rather than a waste. Although much of the compost is required for capping at landfill sites, and for use on grasslands and playing fields in Angus, there is still expected to be around 2,000 tonnes available for sale during the current financial year. The surplus compost will be made available to the commercial market at £2 at tonne. The cost of sending this material to landfill would have been at least £64 per tonne, which is the landfill tax rate for the current financial year.

Timber Pledge

In June 2012 the Council "signed up" to WWF Scotland's Local Authorities "Timber Pledge" initiative committing the council to work towards achieving a Silver Award. The Silver Pledge involves working with suppliers and contractors to find out the source of their timber and making a clear commitment to refuse to buy any timber where the source is unknown. If the direct supplier is certified by a CPET-approved scheme (Forest Stewardship Council or PEFC - Programme for the Endorsement of Forest Certification Schemes), it shows they can provide timber from a source that is managed in a legal and sustainable way. A small working group was formed with representatives from Corporate Services (Head of Property and the Corporate Procurement Manager), Housing, Roads and Planning & Transport to take forward this initiative.

The full report can be found at:

- <http://www.angus.gov.uk/ccmeetings/reports-committee2012/StrategicPolicy/352.pdf>

Fleet Management

In order to reduce the climate impacts of Angus Council's fleet vehicles, in the last year the local authority has:

- Purchased 1 electric sweeper through the Low Carbon Vehicle Support Scheme.
- Installed electric vehicle charging infrastructure at Orchardbank Campus, Forfar.
- Replaced 3 Access Busses within Social Work Dept to vehicles with "Euro V EEV" Engine vehicles
- Replaced 2 Large Vans within Social Work Dept to vehicles with "Euro V EEV" Engine vehicles
- Replaced 1 Workshop Support vehicle with "Euro V engine and Hybrid" Technology
- Replaced 2 RCV vehicles within Waste to vehicles with "Euro V EEV" Engine vehicles
- Purchased 2 RCV vehicles within Waste for Food Waste and Co-Mingling collections with "Euro V EEV" Engine vehicles
- Replaced 1 car within Social Work Dept with a Skoda Octavia "GREENLINE" this model is extremely fuel efficient and has low emissions.

Section 2 Priorities for the Year Ahead

- Angus Council intends to use the savings from switching to LED lights on a spend-to-save basis to reduce future years' electricity consumption and the associated carbon footprint.
- Led (light emitting diode) – Various remote villages.

- Electronic Control Gear – reduces the overall total circuit wattage and can be used for dimming purposes.
- Trimming – replacing old thermal photocells with new lighting controls that consume less energy.
- Purchase another electric street sweeper and some low emitting cars and small vans for Social Work & Health Department.

Section 3

Taking action to reduce the emissions from the local authority area

The Angus Rural and Environment Partnership (AREP) is charged with ensuring the delivery and monitoring of various objectives and actions as agreed by partners and the Angus Community Planning Partnership. Some of the work AREP has been involved with over the last year include:

- The council published its Renewable Energy Implementation Guide in June 2012 which can be found at <http://www.angus.gov.uk/renewableenergy/>
- The Angus Community Planning Partnership completed Phase 1 of a Strategic Assessment, details of which informed the annual partnership planning day in June with support from Scottish Government. This included a review of the 'Communities are Sustainable' priority, which is driven by the Angus Rural and Environment Partnership, clarifying the current situation and trends in Angus, and identifying challenges, opportunities and cross cutting issues.
- Supported Tactran (Tayside and Central Transport Partnership) in the development of "Health & Transport: An Action Plan for Angus".
- Promoted and supported environmental volunteering, e.g. Millennium Forest work in Carnoustie, Montrose and Arbroath.

Other work within the Council includes:

- Regular public reporting of progress via committees, website, and press releases etc.
- Implementing the Travel Plan (developed in 2008), e.g. promoting AngusLiftshare.com, Bike Week Events, and Commuter Cycle Training for staff.
- All schools in Angus are now registered with Eco Schools as well as a growing number of private and voluntary pre-school providers. The number of schools achieving Bronze, Silver, Green Flag and second Green Flag has increased at each of these levels.
- Angus Council is a key player in the River South Esk Catchment Partnership.
- The Main Issues Report for the Draft Angus Local Plan (along with a draft Environment Statement) was published in October 2012.

Section 3 Priorities for the year ahead

- The development of a new Community Plan/Single Outcome Agreement in response to the publication of new SOA guidance in December 2012, including further work on strategic assessment.

Section 4

Assessing the risks of climate change impacts and working with others to adapt to the impacts of climate change.

- The second phase of the Local Climate Impacts Profile is underway adding in events from October 2009 to October 2012.
- The Shoreline Management Plan is in the process of being finalised and will shortly go out for consultation with a view to being published around April 2013.
- After widespread flooding in Angus after a sustained period of heavy rainfall in October 2012 the council is to formulate an action plan to identify areas for immediate action as well as areas which may require longer term investment.

Section 4 Priorities for the Year Ahead

- Data gathering and preparation of the council's first Climate Change Strategy Report.
- Adaptation Scotland training for all departments.
- Economic Development intends to further investigate the economic impacts of climate change.

Section 5

Developing effective partnership working and climate change communications, including producing an annual statement of plans, activities and achievements.

- Mid – and full-year reports on progress on the Angus Community Plan and Single Outcome Agreement were published.
- A self assessment exercise was carried out in each of the community planning thematic partnerships during the year, including the Rural and Environment Partnership. Partners have agreed a new approach to assist in the identification and support of joint projects.
- A staff travel survey was carried out in March 2012 which showed some progress towards targets in the Staff Travel Plan. The results of the survey have been reported on the Council's intranet site.
- A number of the Staff Travel Plan projects were implemented throughout 2012 including, promoting AngusLiftshare.com (441 members as at December 2012) – statistics from Liftshare show cumulative emissions savings since January 2009:
 - miles saved 2,477,655,
 - CO2 saved 815.8 tonnes,
 - Nitrogen Oxides saved 91.7 kg,
 - Particulate Matter saved 43.9 kg
 - Carbon Monoxide 167.5 kg
 - Hydrocarbons saved 75.8
- A staff cycle run was organised during Bike Week in June 2012 but unfortunately was cancelled due to bad weather, Commuter Cycle training for staff was also organised during the summer but again had to be abandoned due to bad weather and poor attendance, another “window” for staff to obtain a bicycle through the Cycle to Work Scheme was available in April/May 2012 and 41 members of staff joined the scheme.
- Angus Council was awarded an Earth Hour Super Local Authority Badge in 2012 in recognition of its efforts to promote the WWF's Earth Hour to staff and the general public. Schools across Angus held events in support of Earth Hour e.g. Forfar Academy held their annual Earth Hour party for seniors and staff where pupils all signed a pledge to switch off on Earth Hour before entering the party. Pupils at Maisondieu PS involved every class in completing a Green Star pledge to turn off electrical appliances. At Eassie Primary School, all electrical appliances were turned off and children engaged in activities that were available within the school or used board games that had been brought in from home. Glamis PS held an Eco Assembly. In Carnoustie, Woodlands PS carried out a range of activities outside for the complete hour. P7 pupils at Burnside PS prepared age and stage PowerPoint presentations for each class in the school about climate change, the use of fossil fuels and saving energy. This was followed by a school-wide event to mark Earth Hour. Participating schools have received feedback on their energy consumption during Earth Hour. Figures show that one primary school had an overall saving of 62kWh which would equate to £2467.55 if continued over the year. This was equal to energy used by six houses in a day and the CO₂ emissions of a car travelling 145 miles.
- The Property Division (Energy Management Unit) regularly reports on energy use and carbon reduction efforts in non-housing council buildings.
- Participating in marine renewables opportunities consultations through membership of the Tay Estuary Forum.
- Angus Council held a free half day event on 12 December 2012 for local businesses interested in finding out about renewable and energy efficiency technologies, government incentives and the support that is available for businesses. The event provided an insight into a range of topics, and explained the various incentives available including the Renewable Heat Incentive, Feed in Tariff and the simple energy efficiency measures that businesses can implement to make cost savings. The event was funded through the East of Scotland Rural Supply Chain Project, which is a European

(ERDF) funded project to promote renewable and energy efficiency industries.

- In November 2012 Angus householders were offered the chance to get their homes insulated free this winter as a council initiative is extended in the county. The Universal Home Insulation Scheme (UHIS) was launched by the council following a successful bid for £510,000 of Scottish Government funding. UHIS is a part of the Scottish Government's Energy Efficiency Action Plan, which aims to reduce Scotland's energy use by 12 per cent by 2020. It is targeting homeowners as well as those in private rented accommodation. The council is working with energy efficiency charity SCARF (Save Cash and Reduce Fuel) and contractor SIG to deliver the home insulation programme. The first phase of the scheme began in Forfar and Kirriemuir in September. A new second phase will cover Carnoustie, Monifieth and some landward areas which were not previously covered.
- Angus Council rangers organised a series of special events to mark Climate Week. At Crombie Country Park on Sunday 11 March, visitors are invited to take a tour of the rangers' weather station. Rangers are using the weather station to take daily measurements for the Met Office to help with the understanding of climate change.
- On Sunday 18 March, the Glen Doll rangers led a walk to discover and discuss the effects of climate change past, present and future, on the physical features, habitat, flora and fauna of the upland landscape. From 12 March to 18 March at Monikie Country Park, visitors were asked to take part in a survey of birds, flowers, insects, trees and amphibians. Between the same dates at Forfar Loch Country Park, visitors could drop into the centre and view displays showing the possible effects of climate change on the wildlife, habitats and flora and fauna of Angus.
- In February 2012, Angus Council rangers visited Fairlie House, Kirriemuir, to plant fruit trees as part of the Angus Orchards Project. The latest phase of this project, which involves schools, community groups and the countryside ranger service, has secured funding from Angus Environmental Trust. Over the following few months fruit trees were planted at Monikie Country Park, Forfar Country Park, HOPE organic gardens Arbroath, 13 Primary Schools, Seaton House, Arbroath and Fairlie House. This is the last phase of a three year project which will see 356 fruit trees planted and 28 orchards created across Angus. The trees were planted in the community garden at Fairlie House, which is supported by volunteers from the Fairlie Good Gardeners' Group, and the council's community learning and development service. The group is for anyone with an interest in creating and maintaining an outdoor space, recycling and reusing as much as possible.

Section 5 Priorities for the Year Ahead

- Revision of the Angus Community Plan/Single Outcome Agreement – see section 3 above.
- Participating in national events to raise awareness, e.g. Bike Week, Climate Week, and Earth Hour.

Climate Change Progress Highlights of the Past Year

- Developing the first Climate Change Strategy and Action Plan Annual Report.
- Travel Plan – a number of initiatives implemented (see above).
- Various projects listed above.
- Cycle to Work Scheme – 41 members of staff joined the scheme.
- Rural Environment Partnership – see progress reports above.
- Energy Management Unit activities – Reporting a reduction in CO2 emissions of 4.69% compared to 2009/10.
- Lease and/or purchase of more fuel efficient, less polluting fleet vehicles.