

Public Sector Climate Change Duties 2019 Summary Report: Angus Council

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Recommended Reporting: Reporting on Wider Influence

RECOMMENDED – WIDER INFLUENCE

OTHER NOTABLE REPORTABLE ACTIVITY

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PART 1: PROFILE OF REPORTING BODY

1(a) Name of reporting body
Angus Council

1(b) Type of body
Local Government

1(c) Highest number of full-time equivalent staff in the body during the report year
3900

1(d) Metrics used by the body			
Specify the metrics that the body uses to assess its performance in relation to climate change and sustainability.			
Metric	Unit	Value	Comments
Floor area	m2	269825	Source: Angus Council Estates Team
Population size served	population	116280	https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/population/population-estimates/mid-year-population-estimates/mid-2017

1(e) Overall budget of the body	
Specify approximate £/annum for the report year.	
Budget	Budget Comments
251868000	https://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/population/population-estimates/mid-year-population-estimates/mid-2017

1(f) Report year	
Specify the report year.	
Report Year	Report Year Comments

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Financial (April to March)	
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1(g) Context

Provide a summary of the body's nature and functions that are relevant to climate change reporting.

The local authority comprises two services within a diverse estate. The scope of this report covers operational estate and emissions that the Council directly controls. The built estate incorporates offices, schools/nurseries and community buildings. Since December 1st 2015, all leisure/ library buildings are operated by Angus Alive (Cultural and Leisure Trust). The Council continues to share facilities and asset management of these properties. The Council has an operational fleet. Where staff mileage is calculated, commuting is not included. The Council also records emissions which arise from municipal waste and from water supply and treatment.

PART 2: GOVERNANCE, MANAGEMENT AND STRATEGY

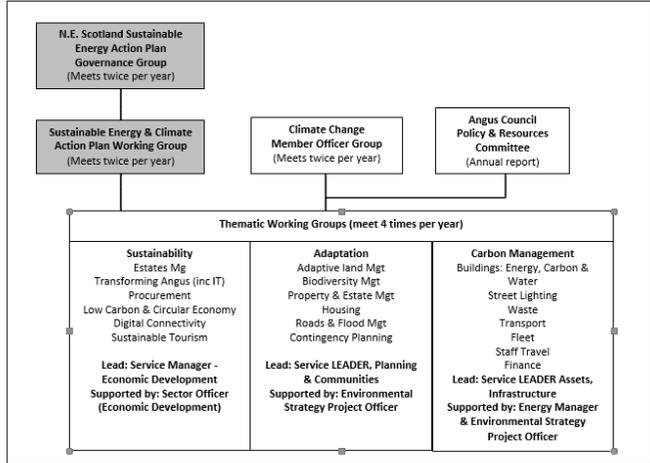
2(a) How is climate change governed in the body?
 Provide a summary of the roles performed by the body's governance bodies and members in relation to climate change. If any of the body's activities in relation to climate change sit outside its own governance arrangements (in relation to, for example, land use, adaptation, transport, business travel, waste, information and communication technology, procurement or behaviour change), identify these activities and the governance arrangements.
 Responsibility for governing delivery of carbon management and wider climate change obligations lies with the Climate Change Member Officer Group, which oversees and is informed by dedicated working groups dealing with carbon emissions, adaptation and sustainability. Progress on both tiers is reported to the Communities Committee. It is also fed up to the regional Sustainable Energy & Climate Action Plan group. See attached diagram. (Figure 1) >

2(b) How is climate change action managed and embedded by the body?
 Provide a summary of how decision-making in relation to climate change action by the body is managed and how responsibility is allocated to the body's senior staff, departmental heads etc. If any such decision-making sits outside the body's own governance arrangements (in relation to, for example, land use, adaptation, transport, business travel, waste, information and communication technology, procurement or behaviour change), identify how this is managed and how responsibility is allocated outside the body (JPEG, PNG, PDF, DOC)
 Climate Change Member Officer Group - comprises elected members & senior staff. The remit was recently extended from just CO2 to climate change, incorporating sustainability. The group meet twice yearly to steer and monitor delivery of work plans of the three working groups on carbon emissions (equivalent), adaptation and sustainability. These groups in turn will meet quarterly.
 Each working group is chaired by a senior manager and comprises specialist officers and support staff for their topic area. The groups have agreed remits and are commencing work on developing delivery plans spanning the Council's functions.
 SECAP Working Group (Sustainable Energy & Climate Change Action Plan) - lead officers & senior managers in work areas with CO2 and adaptation remit. Responsible for exploring the potential for utilising the SECAP model.
 Angus Council has adopted targets to reduce carbon emissions, energy and water use by 2020. Targets have been allocated to operational areas of the Council estate. Responsibility for attaining these targets lies with relevant senior managers who receive quarterly reports on progress against targets.

2(c) Does the body have specific climate change mitigation and adaptation objectives in its corporate plan or similar document?
 Provide a brief summary of objectives if they exist.

Objective	Doc Name	Doc Link
LOIP outcomes include: Inclusive & sustainable economy Safe, secure, vibrant & sustainable communities Reduced carbon footprint	Angus Local Outcomes Improvement Plan 2017-2030	https://www.angus.gov.uk/media/angus_local_outcomes_improvement_plan

2(d) Does the body have a climate change plan or strategy?
 If yes, provide the name of any such document and details of where a copy of the document may be obtained or accessed.
 Carbon Management Plan 2014-2020
<http://archive.angus.gov.uk/ccmeetings/reports-committee2013/CorporateServices/353.pdf>
 The previous climate change and sustainability strategy is due to be replaced by a Sustainable Energy & Climate Action Plan, (SECAP), which is currently under development (undergoing SEA). The Council does have a draft SECAP but it is not publicly available by link. A copy can be supplied.



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2(e) Does the body have any plans or strategies covering the following areas that include climate change?

Provide the name of any such document and the timeframe covered.

Topic area	Name of document	Link	Time period	Comments
Adaptation	Climate Change Strategy and Action Plan 2012 - 2016	http://www.angus.gov.uk/downloads/file/1393/climate_change_strategy_and_action_plan_2012_-_2016	2012-2016	To be replaced by SECAP which is currently under development
Business travel	Angus Council Travel Plan 2017	Link not yet publicly available	2017	Document produced by
Staff Travel	Angus Council Travel Plan 2017	Link not yet publicly available	2017	Document produced by
Energy efficiency	Carbon Reduction Action Plan	http://archive.angus.gov.uk/ccmeet	2014-2020	
Fleet transport	Vehicle replacement programme 2017/18	https://www.angus.gov.uk/media/agenda_item_20_report_no_18117_	2017/18	
Information and communication technology	ASK PETE MORTON FOR NEW CONTACTR			
Renewable energy	Carbon Reduction Action Plan	http://archive.angus.gov.uk/ccmeetings/reports-	2014-2020	
Sustainable/renewable heat	Carbon Reduction Action Plan	http://archive.angus.gov.uk/ccmeet	2014-2020	
Waste management		https://www.sepa.org.uk/environment		There is currently no
Water and sewerage	Water Management - A Corporate Commitment	https://www.angus.gov.uk/sites/angus-cms/files/2017-08/257_Sch3.pdf		One of the outcomes of Angus council's first application for the
Land Use	River South Esk Catchment Partnership Management Plan	http://theriversouthesk.org/assets/Docs/river-south-esk-plan-	2009 onwards	
Other (state topic area covered in comments)				
Business travel	Car Park Management Plan	Link not yet publicly available	2017	Document produced
Land Use	Angus Local Development Plan 2016 - 2021	https://www.angus.gov.uk/directories/document_category/development	2016-2021	
Land Use	Strategic Development Plan (Tayplan) 2012 - 2032	http://www.tayplan-sdpa.gov.uk/strategic_development_plan	2012-2032	
Land Use	Angus Shoreline Management Plan 2	https://www.angus.gov.uk/media/smp2-main-document	2017 onwards	
Other (state topic area covered in comments)	Angus Economic Strategy	http://www.angus.gov.uk/sites/angus-	2013-2020	Economic development with links
Adaptation	Tayside Local Biodiversity Action Plan	http://www.taysidebiodiversity.co.uk/wp-	2016-26	
Energy efficiency	Carbon Reduction Commitment Annual Report 2016/17	https://www.angus.gov.uk/sites/angus-cms/files/2017-08/257_Sch1.pdf	2016/17	

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2(f) What are the body's top 5 priorities for climate change governance, management and strategy for the year ahead?

Provide a brief summary of the body's areas and activities of focus for the year ahead.

- Work with other local authorities in the north east to develop a Sustainable Energy Climate Action Plan (SECAP). Review of policy landscape like to align with this.
- Strengthen governance, management and strategy utilising outputs of Climate Change Assessment Tool. Develop mechanism & processes of the Climate Change Member Officer Group & dedicated work groups on Carbon, Adaptation & Sustainability to embed considering of each in all Council functions.
- Optimise sustainability opportunities through implementation of the Transforming Angus programme which offers resource efficiencies through estate rationalisation, greater use of IT, reduced staff travel and commuting.
- Implement Active Travel Plan & support Change Programme to consolidate estate, encourage home working and reduce staff travel through Smart Working programme.
- Implement Angus Shoreline Management Plan 2 & Angus Local Development Plan

2(g) Has the body used the Climate Change Assessment Tool(a) or equivalent tool to self-assess its capability / performance?

If yes, please provide details of the key findings and resultant action taken.

The Council's 2nd Climate Change Assessment Tool (CCAT) workshop was carried out in July 2017 through a workshop comprising 14 officers from across all services. The group appraised and scored the Council's existing performance on the specified areas as follows:

1. Governance (39%, previously 43%)
 2. Emissions (77% previously 77%)
 3. Adaptation (46% previously 43%)
 4. Behaviour (55% previously 50%)
 5. Procurement (13% previously 19%)
- Overall score (56% previously 49%)

The paper set out a SWOT (strengths, weaknesses opportunities and threats) analysis for Angus Council which identified key strengths including:-

- The long standing Carbon Member Officer Group superseded by more widely ranging climate change MOG, supported by Working Groups focusing on adaptations, carbon reduction and sustainable development;
- Corporate commitment to both annual and 2020 climate change related targets to reduce greenhouse gas emissions plus building and street lighting energy use;
- Area wide commitment evidenced through signing up to deliver a Sustainable Energy and Climate Change Plan moving beyond operational boundaries to lead the wider area by example;
- Track record of assessing impacts of severe weather events through conducting two Climate Change Impact Assessments, approving policies and flood management, coastal management and a number of additional natural flood management strategies through partnership working;
- Angus Council had been ranked in the top three Scottish Local Authorities for household recycling rates and a strong record for public reporting on climate change through Scotland's Change Declaration.

The paper also detailed key areas for improvement relating to emissions, adaptations and procurement. The paper set out an action plan, as undernoted

Action Priority 1 to work through the new Sustainable Development Working Group to produce and adopt a new area wide Sustainable Energy and Climate Action

2(h) Supporting information and best practice

Provide any other relevant supporting information and any examples of best practice by the body in relation to governance, management and strategy.

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- The principal of promoting sustainable transport supported by well-located and accessible development, incorporated in the TAYplan SDP, has been carried forward in the new Angus LDP Proposed Plan. This was further enhanced by the Active Travel Strategy which was produced during 2015/16.
- 48% of schools in Angus have a Travel Plan in place or are currently undertaking travel plan activities.
- Long term Adaptation projects are included strategies such as:
 - The 2nd Edition Tayside Biodiversity Action Plan (covering the period 2016-26).
<http://www.taysidebiodiversity.co.uk/>
 - Sustainability and resource efficiency are central to Angus Council's transformation agenda with significant progress during 2015/16 on: Angus Digital; Improved Business Processes; Improved Customer Experience; Agile Working and Estates Review.
http://www.angus.gov.uk/sites/angus-cms/files/2017-07/323_0.pdf & http://www.angus.gov.uk/sites/angus-cms/files/2017-07/46_0.pdf
- Waste - Angus Council had the 3rd highest household recycling rate in Scotland in 2016/17 and one of the highest diversion rates from landfill. In November 2017 Angus Council in partnership with Dundee City Council commenced a 28 year contract with MVV Environmental Baldovie for the treatment of residual waste at a thermal treatment plant in Dundee. This means that all household residual waste in Angus will now be delivered to a thermal Waste to Energy plant rather than landfill, and as a result the Angus Council landfill at Restenneth, Forfar closed on 31 March 2018. A review of recycling centre provision in Angus is ongoing and recommendations to be submitted to Council later in 2018 and a key objective will be to maximise the amount collected for recycling via these facilities.

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PART 3: EMISSIONS, TARGETS AND PROJECTS

3a Emissions from start of the year which the body uses as a baseline (for its carbon footprint) to the end of the report year							
Complete the following table using the greenhouse gas emissions total for the body calculated on the same basis as for its annual carbon footprint /management reporting or, where							
Reference Year	Year	Scope1	Scope2	Scope3	Total	Units	Comments
Baseline carbon footprint	2010/11	11170	13848	0	25018	tCO2e	2010/11 is the baseline year for the Carbon Management Plan. Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard. Reliable historical data relating to Scope 3 is not available
Year 1 carbon footprint	2011/12	10490	13452	7485	31427	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard. Scope extended to include waste and water.
Year 2 carbon footprint	2012/13	11751	13727	11105	36583	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard. Scope extended to include waste and water.
Year 3 carbon footprint	2013/14	10766	13295	8870	32931	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard. Scope extended to include waste and water.
Year 4 carbon footprint	2014/15	10385	13674	7229	31288	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard. Scope extended to include waste and water.
Year 5 carbon footprint	2015/16	9870	12477	9102	31449	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard 2017 re-accreditation. Scope extended to include waste and water.
Year 6 carbon footprint	2016/17	9078	10534	10242	29854	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard 2017 re-accreditation. Scope extended to include waste and water
Year 7 carbon footprint	2017/18	9421	8498	10806	28725	tCO2e	Full data is available for Scopes 1 & 2 and has been verified through the Carbon Trust Standard 2017 re-accreditation. Scope extended to include waste and water
Year 8 carbon footprint	2018/19	9044	6492	3769	19305	tCO2e	Full data is available for Scopes 1, 2 & 3

3b Breakdown of emission sources									
Complete the following table with the breakdown of									
Total	Comments – reason for	Emission source	Scope	Consumption	Units	Emission	Units	Emissions	Comments
28726.0		Grid Electricity (generation)	Scope 2	22933715	kWh	0.35156	kg CO2e/kWh	8062.6	Source: Angus Council Energy Management Unit
		Grid Electricity (transmission & distribution losses)	Scope 3	22933715	kWh	0.03287	kg CO2e/kWh	753.8	Source: Angus Council Energy Management Unit
		Natural Gas	Scope 1	32858270	kWh	0.184164	kg CO2e/kWh	6051.3	Source: Angus Council Energy Management Unit

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Gas Oil	Scope 1	339726 kWh	0.2758764 kg CO2e/kWh	93.7	Source: Angus Council Energy Management Unit
LPG	Scope 1	27173 kWh	0.2145097 kg CO2e/kWh	5.8	Source: Angus Council Energy Management Unit
Burning Oil (Kerosene)	Scope 1	696083 kWh	0.2465908 kg CO2e/kWh	171.6	Source: Angus Council Energy Management Unit
Biomass Wood Chips	Scope 1	1339072 kWh	0.01506 kg CO2e/kWh	20.2	Source: Angus Council Energy Management Unit
Biomass Wood Pellets	Scope 1	13800 kWh	0.01506 kg CO2e/kWh	0.2	Source: Angus Council Energy Management Unit
Water - Supply	Scope 3	159542 m3	0.344 kg CO2e/m3	56.3	Source: Angus Council Energy Management Unit
Water - Treatment	Scope 3	140161 m3	0.708 kg CO2e/m3	110.1	Source: Angus Council Energy Management Unit
Average Car - Unknown Fuel	Scope 3	2221807 miles	0.29072 kg CO2e/mile	645.9	Source: Angus Council Payroll
Diesel (average biofuel blend)	Scope 1	2415944 litres	0.28572 kg CO2e/litre	690.3	Source: Tayside Contracts
Refuse Municipal to Landfill	Scope 3	2383 tonnes	586.5313 kg CO2e/tonne	1397.7	Calendar year 2019 unconfirmed by SEPA
Refuse Commercial &	Scope 3	680 tonnes	99.7729 kg CO2e/tonne	67.8	Calendar year 2019 unconfirmed by SEPA
Batteries Recycling	Scope 3	5 tonnes	64.6365 kg CO2e/tonne	0.3	Calendar year 2019 unconfirmed by SEPA
Organic Food & Drink AD	Scope 3	3515 tonnes	21.3842 kg CO2e/tonne	75.2	Calendar year 2019 unconfirmed by SEPA
Organic Garden Waste	Scope 3	9683 tonnes	10.2586 kg CO2e/tonne	99.3	Calendar year 2019 unconfirmed by SEPA
Paper & Board (Mixed)	Scope 3	1006 tonnes	21.3842 kg CO2e/tonne	21.5	Calendar year 2019 unconfirmed by SEPA
WEEE (Mixed) Recycling	Scope 3	1073 tonnes	21.3842 kg CO2e/tonne	22.9	Calendar year 2019 unconfirmed by SEPA
Glass Recycling	Scope 3	417 tonnes	21.3842 kg CO2e/tonne	8.9	Calendar year 2019 unconfirmed by SEPA
Metal Cans (Mixed) & Metal	Scope 3	883 tonnes	21.3842 kg CO2e/tonne	18.9	Calendar year 2019 unconfirmed by SEPA
Refuse Municipal /Commercial	Scope 3	23049 tonnes	21.3842 kg CO2e/tonne	492.9	Calendar year 2019 unconfirmed by SEPA
Mixed recycling	Scope 3	9439 tonnes	21.3842 kg CO2e/tonne	201.8	Calendar year 2019 unconfirmed by SEPA

3c Generation, consumption and export of renewable energy

Provide a summary of the body's annual renewable generation (if any), and whether it is used or exported by the body.

Technology	Renewable Electricity		Renewable Heat		Comments
	Total consumed by	Total exported	Total consumed by the	Total exported	
Solar PV	277044	63997	0	0	Information taken from main PV recording sheet. 5 sites export based on 'deemed rate' (50% of generation), as per Feed in Tariff contract. 3 sites recording via export meter. 2 sites currently based on 'deemed rate' but awaiting export meter to be installed. 3 sites not recorded as awaiting export meter installation. 2 sites - no export applicable.
Solar thermal			4625		Information taken from recorded reads at only solar thermal site - Isla Primary School. The meter is only read at the end of financial year and it appears that there has been an issue on site and that the meter may have re-set at some point.

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Biomass			1352872	Renewable heat element taken from Systemslink billing information for all 7 sites with Biomass with a total heat output of 1574 kW. Issues with 3 sites (Tannadice PS, Kinloch House and Montrose SC), this has resulted in reduced biomass running hours during 2018/19.
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3d Targets

List all of the body's targets of relevance to its climate change duties. Where applicable, overall carbon targets and any separate land use, energy efficiency, waste, water, information and communication technology,

Name of Target	Type of Target	Target	Units	Boundary/scope of Target	Progress against target	Year used as	Baseline figure	Units of baseline	Target completion	Comments
Corporate energy consumption reduction target	percentage	22.64	kWh reduction	All energy use	81.1	2010/11	77801796	kWh	2019/20	Annual reduction consumption target of 2%; we achieved a 7.7 % reduction in 2018/19 on previous year.
Corporate Carbon Dioxide reduction target	percentage	26.32	tCO2e reduction	All energy use	135.84	2010/11	25132.49	tCO2e	2019/20	Annual reduction consumption target of 3%; we achieved a 17.3 % reduction in 2018/19 on previous year. We reached our 2020 target in 2016/17.
Corporate water consumption reduction target	percentage	33.6	M3 reduction	Water and sewerage	136.45	2011/12	257500	M3	2019/20	In 2016/17 there was a corporate adoption of a 5% reduction in water consumption based on 2011/12 baseline. We achieved a 2.5 % reduction on previous year and have met our target in 2018/19.

3e Estimated total annual carbon savings from all			
Total	Emissions Source	Total estimated	Comments
6481	Electricity	111	Information provided from Master Project Sheet that sits in house with Energy Team and Street lighting data provided by Roads Dept on savings from lighting conversions
	Natural gas	0	No projects for gas this year
	Other heating fuels	0	No projects for Oil/LPG or Biomass this year
	Waste	6370	
	Water and sewerage	0	Water projects - continue to do small scale
	Business Travel		
	Fleet transport		
	Other (specify in comments)		

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3f Detail the top 10 carbon reduction projects to be carried out by the body in the report year

Provide details of the 10 projects which are estimated to achieve the highest carbon savings during report year.

Project name	Funding source	First full year of	Are these savings	Capital cost (£)	Operational cost	Project lifetime	Primary fuel/emission source	Estimated carbon savings per year	Estimated costs	Behaviour Change	Comments
Montrose Sports Centre	Salix	2018/19	Estimated	£178,520		20	Grid Electricity	60.1	21691		Install 198.75kW Solar PV array
Digital Reprographics Unit and IT Data Centre	Salix	2018/19	Estimated	£48,755		20	Grid Electricity	15.7	6722		Install 49.4kW Solar PV array
Domestic waste shifted from landfill disposal to energy from waste		2018/19	Estimated			20	Refuse Municipal to Landfill	6474			
Commercial waste shifted from landfill disposal to energy from waste		2018/19	Estimated			20	Refuse Commercial & Industrial to Landfill	495			
Reconfiguration of recycling centres		2018/19	Estimated			20	Mixed recycling			Behaviour of general public & businesses & improved infrastructure	The tonnage of recyclate collected increased by 21% over the period. Ordinarily this would bring significant CO2 savings but changes to calculation methodology hide this .
Improvements to street lighting	Salix	2018/19	Estimated			20	Grid Electricity	468			Street lighting team continue to hit their target of annual 10% reduction in energy use. Awaiting further details.
Bruce House	Salix	2018/19	Estimated	£49,327		20		15.6	4966		Install 46.64kW Solar PV array
Lochands Resource	Salix	2018/19	Estimated	£11,525		20		4.7	918		Upgrade to LED lighting with controls
Seaton Grove	Salix	2018/19	Estimated	£11,762		20		3.8	1684		Upgrade lounges and offices to LED lighting with controls
Gowanlee First Floor	Salix	2018/19	Estimated	£15,495		20		2.7	1084		Upgrade to LED lighting with controls

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3g Estimated decrease or increase in the body's				
If the emissions increased or decreased due to any				
Total	Emissions source	Total estimated annual emissions	Increase or decrease in	Comments
0	Estate changes		0 decrease	100,341 kWh reduction estimated
	Service provision		0 decrease	3644 m3 reduction estimated
	Staff numbers		0	Majority of changes will already have been accounted for in previous sections
	Other (specify in comments)			

3h Anticipated annual carbon savings from all			
Total	Source	Saving	Comments
7540	Electricity	571	430,776 kWh - LED lighting and street lighting various
	Natural gas	0	Unknown
	Other heating fuels	0	Unknown
	Waste		Unknown
	Water and sewerage		Unknown
	Business Travel		Unknown
	Fleet transport		Unknown
	Other (specify in comments)		

3i Estimated decrease or increase in the				
If the emissions are likely to increase or				
Total	Emissions source	Total estimated	Increase or	Comments
0	Estate changes	0		Majority of changes will already have been accounted for in previous sections
	Service provision	0		Majority of changes will already have been accounted for in previous sections
	Staff numbers	0		Majority of changes will already have been accounted for in previous sections
	Other (specify in comments)			

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3j Total carbon reduction project savings since the start of the year which

If the body has data available, estimate the total emissions savings made from

Total	Comments
6957	2010/11 was chosen as the baseline year to capture significant energy & CO2 projects around the built estates. Based on that year, 2018/19 saw a decrease of CO2 by 28%. A truer reflection of change comes from year 3 of 2012/13 when the full data set became available and the emission factor for waste was recalibrated. This can be seen as the first year of good quality data - between 2012/13 and 2018/19 there has been a 51% decrease in CO2 emissions.

3k Supporting information and best practice

Provide any other relevant supporting information and any examples of best practice by the body in relation to its emissions, targets and projects.

RATIONALISING ESTATE - A recent review of the impact of estate rationalisation on utilities consumption highlights that since 2013, 32 buildings have been sold/leased/demolished/otherwise removed from Angus Council estate. Resource consumption associated with these buildings suggests annual reductions of energy of -2,839,736 kWh (804 CO2e tonnes) and of water of 6,978 m3 CO2e tonnes.

STREET LIGHTING -corporate commitment to reduce energy used in street lighting of 10% attained again in 2018/19.

WASTE MANAGEMENT - 2 major achievements were the switch from landfilling to energy from waste plant and also reconfiguring the recycling infrastructure. The former slashed CO2 emissions for domestic and commercial waste collection. The amount of waste collected for recycling increased from 40,477 tonnes to 49,070 (increase of 21%). Recycling is strongly encouraged by the Council and this behaviour change is welcomed. Reclaiming energy from waste and the practice of recycling are measured equally in terms of CO2, however, recycling is considered to be a more resource efficient option as recyclates can be used for other purposes.

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PART 4: ADAPTATION

4(a) Has the body assessed current and future climate-related risks?

If yes, provide a reference or link to any such risk assessment(s).

Yes, assessments have been carried and reported through the following documents:

- Angus Council Emergency Plan

https://www.angus.gov.uk/media/angus_council_emergency_plan

- Angus Local Climate Impacts Profile (LCLIP) 1st edition

<https://www.angus.gov.uk/media/angus-local-climate-impacts-profile-lclip-1st-edition>

- Angus Local Climate Impacts Profile (LCLIP) 2nd edition

<https://www.angus.gov.uk/media/angus-local-climate-impacts-profile-lclip-2nd-edition>

- North of Scotland, Resilience Partnership Community Risk Register

http://www.firescotland.gov.uk/media/864538/north_crr_version_1.2.pdf

- 2016/17 period saw development work on the Local Flood Risk Management Plan (approved June 2016)

https://www.angus.gov.uk/the_environment/flooding_and_coastal_erosion/tay_estuary_and_montrose_basin_local_flood_risk

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4(b) What arrangements does the body have in place to manage climate-related risks?

Provide details of any climate change adaptation strategies, action plans and risk management procedures, and any climate change adaptation policies which apply across the body.

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• The Angus Local Development Plan 2016 (ALDP) contains PV12 Managing Flood Risk which states that to reduce potential risk from flooding, there will be a general presumption against built development proposals on the functional floodplain; which involve land raising resulting in the loss of the functional flood plain; or which would materially increase the probability of flooding to existing or planned development. Policy PV13 Resilience and Adaptation explores resilience to the effects of climate change such as flood and drought, extreme weather events and rising sea levels. In future Angus Council may require development proposals to incorporate adaptation measures policy PV16 Coastal Planning supports a precautionary approach to potential impacts of coastal flooding. The ALDP is supported by an Environmental Report and Strategic Flood Risk Assessment which influenced plan development in light of some climate change impact.

Angus Council as Lead Local Authority for the Tay Estuary and Montrose Basin Local Plan District continue to deliver the actions in the Local Flood Risk Management Plan for Tay Estuary and Montrose Basin Local Plan District - http://apps.sepa.org.uk/FRMStrategies/pdf/lpd/LPD_07_FRMIS.pdf - and are partners on the Tay Local Plan District, which is led by Perth & Kinross Council.

- Tayside Local Asset Resilience Register is maintained and developed. It is a list of community/ voluntary groups that can be called to action in the event of severe weather events.
 - Continue to support the Resilient Business & Communities working group.
 - Held a one stop shop for flooding for communities in Spring 2017 with a view to running further community resilience events in 2018.
 - We continue to explore capacity building e.g. first aid training, tie in with other community health empowerment initiatives such as issuing of defibrulators.
 - We continue to support and develop a number of active community groups, especially those at risk of getting cut off in severe weather conditions.
 - We continue to work with schools to build resilience - number of pilot schools involved.
- Use of SALIX funding projects to reduce the Councils'CO2 emissions for all non housing properties. A few related work streams have progressed – holding fuel poverty and energy efficiency advice sessions for front line council staff to then convey the message to the public; developing a below tolerable standard strategy; improving our web-based advice/info sections relating to property condition.

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4(c) What action has the body taken to adapt to climate change?

Include details of work to increase awareness of the need to adapt to climate change and build the capacity of staff and stakeholders to assess

Angus Council through the Cairngorm National Park Authority - joint catchments project continue to investigate landscape scale approaches to natural flood management, riparian tree planting schemes and peatland restoration, all of which are excellent land use management approaches to mitigate against the effects of climate change and provide innovative adaptation examples. Good practice is explored in catchments such as the Tweed and Dee who have been involved in the Land Use Strategy Pilot schemes.

Treatment of Invasive Non-Native Species (INNS) during 2018/19, particularly along river corridors has helped to reduce soil erosion in high spate events, thereby increasing the stability of the river bank during severe weather events. Himalayan balsam is proving to be very invasive, luckily, volunteer effort to control the plant in some areas has been quite successful. The Scottish Invasive Species Initiative, now in its second year, has successfully increased the volunteer pool with INNS treatment skills.

<http://theriversouthesk.org/projects/hogweed-and-knotweed-control/>

Brechin Flood Prevention Scheme was completed and opened in October 2106. The 1.5km of flood embankments and walls up to 1.8m high have been installed along the north bank of the River South Esk to provide a 1 in 200 yr. flood defence. Environmental improvements have been delivered on site increasing native biodiversity and opportunities for access and outdoor learning.

https://www.angus.gov.uk/the_environment/flooding_and_coastal_erosion/brechin_flood_prevention_scheme

Arbroath (Brothock Water) Flood Protection Scheme - which is ranked nationally as a priority project and is an action in the Tay Estuary and Montrose Basin Local Flood Risk Management Plan - has been the subject of formal notification and construction is anticipated to commence in late 2019 for completion before 2022.

https://www.angus.gov.uk/the_environment/flooding_and_coastal_erosion/arbroath_brothock_water_flood_prevention_scheme

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The River South Esk catchment has seen further watercourses restored and reconnected to their natural flood plain over 2018/19. Particularly notable are phases 2&3 of the the Pow Burn restoration in the lower catchment. These improvements were achieved through the creation of 915m of second-stage channels, the removal of 350m of embankments in places, and the setting back of 350m of existing river bank to provide re-connection of relict meander features currently cut off from the channel. The site has been used in 2017/18 as good practice site and the Angus Council Climate Change Member Officer Group visited the site to witness adaptation in practice.

<https://www.youtube.com/watch?v=2TGKyb496mw> Work on the Pow Burn in Montrose

Previously, a large scale forestry project aimed at reducing peak flows in the upper South Esk catchment saw contour tree planting take place in two areas of Glen Clova and Doll. This follows the example of work carried out in a number of studies, where it has been found that tree planting along the contours of a hillside can result in a flood peak reduction of around 40%. Funding for further large scale planting (£3.2million) is in place and the planting of 165 Ha (246,000) trees began in spring 2019.

<http://theriversouthesk.org/projects/contour-planting/>

“Our Rivers” LEADER Transnational Cooperation Project - River South Esk Catchment Partnership -The overall purpose of the project is to facilitate the creation of resilient, innovative and prosperous Communities on a landscape scale. Transnational meetings, river twinning and six community workshops will take place in Angus. The overall project focus is on collaborative river management, invasive non-native species control, climate change resilience and community volunteering

<http://theriversouthesk.org>

The Angus LDP 2016 promotes renewable and low carbon energy development (Policy PV9), heat mapping, heat networks and decarbonised heat (Policy PV10) and energy efficiency (Policy PV11) to reduce emissions and our contribution to man made global warming. Policy PV9 is supported by Renewable and Low Carbon Energy Development Supplementary Guidance which sets out the spatial framework for onshore wind energy and detailed criteria to assist the preparation and assessment proposals for renewable and low carbon energy development.

Montrose Bay is a Super Site under the Scottish Government's Dynamic Coast project. The project is establishing the effects of climate change on our coastline with the latest mapping and modelling. An adaptation plan is under development for publication in 2019/20.

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<p>4(d) Where applicable, what progress has the body made in delivering the policies and proposals referenced N1, N2, N3, B1, B2, B3, S1, S2 and S3 in the Scottish Climate Change Adaptation Programme(a) ("the Programme")?</p>				
<p>If the body is listed in the Programme as a body responsible for the delivery of one or more policies and proposals under the objectives N1, N2, N3, B1,B2, B3, S1, S2 and S3, provide details of the progress made by the body in delivering each policy or proposal in the report year. If it is not responsible for delivering any policy or proposal under a particular objective enter "N/A" in the 'Delivery progress made' column for that objective.</p> <p>(a) This refers to the programme for adaptation to climate change laid before the Scottish Parliament under section 53(2) of the Climate Change (Scotland) Act 2009 (asp 12) which currently has effect. The most recent one is entitled "Climate Ready Scotland: Scottish Climate Change Adaptation Programme" dated May 2014.</p>				
Objective	Objective reference	Theme	Policy / Proposal reference	Delivery progress made

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Understand the effects of climate change and their impacts on the natural environment.	N1	Natural Environment	N1-1	Measuring the effects of climate change on the natural environment is a learning curve and actions are ongoing. The Tayside LBAP published in Aug 2016 takes into account the effects of climate change on a variety of species and habitats. Surveys are undertaken on invasive species movement e.g. Co Coasts and INNS in riverine and estuarine areas in particular. Citizen science projects are developed and supported by the partnership. Montrose Bay is a Super Site under the Scottish Government's Dynamic Coast project. The project is establishing the effects of climate change on our coastline with the latest mapping and modelling. An adaptation plan is under development for publication in 2019/20.
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Support a healthy and diverse natural environment with capacity to adapt.	N2	Natural Environment	N2-1	Climate change is embedded in the Tayside LBAP and other policy documents such as SMP2 and Flood Risk Strategies which include flood management and coastal management policies. All three plans favour natural mitigation and adaptation measures where possible, enabling healthy ecosystem services. In the River South Esk Catchment approximately 6 natural flood management schemes implemented and these techniques continue to be explored throughout Angus.
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<p>Sustain and enhance the benefits, goods and services that the natural environment provides.</p>	<p>N3</p>	<p>Natural Environment</p>	<p>N3-1</p>	<p>The ALDP 2016 produced by Angus Council contains Policy PV14 Water Quality, its purpose is to protect and enhance the quality of the water environment. Development proposals will be assessed within the context of: the National Marine Plan; the Scotland River Basin Management Plan and associated Area Management Plans; relevant guidance on controlling the impact of development and associated works; relevant guidance on engineering works affecting water courses; and potential mitigation measures. Embedded in Climate Change Strategy & Action Plan, LBAP, newly developed Local Development Plan and Open Space Strategy. Achieved through documents such as the new LBAP & South River Esk work which focuses on ecosystem scale projects , supporting healthy functioning ecosystems & ecosystem services.</p> <p>Montrose Bay is a Super Site under the Scottish Government's Dynamic Coast project. The first phase of the project has established the benefit natural costal defences have. The project is establishing ther effects of climate change on our coastline with the latest mapping and modelling. An adaptation plan is under development for publication in 2019/20.</p>
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Understand the effects of climate change and their impacts on buildings and infrastructure networks.	B1	Buildings and infrastructure networks	B1-1	Embedded in the newly developed Local Housing Strategy, LBAP, ALDP 2016 and Open Space Strategy. Gradual increase in highlighting impacts and costs of climate change in committee reports.
Provide the knowledge, skills and tools to manage climate change impacts on buildings and infrastructure.	B2	Buildings and infrastructure networks	B2-1	Embedded in the newly developed Local Housing Strategy, LBAP, ALDP 2016 and Open Space Strategy.
Increase the resilience of buildings and infrastructure networks to sustain and enhance the benefits and services provided.	B3	Buildings and infrastructure networks	B3-1	Montrose Bay is a Super Site under the Scottish Government's Dynamic Coast project. The project is establishing the effects of climate change on our coastline with the latest mapping and modelling. An adaptation plan is under development for publication in 2019/20.
Understand the effects of climate change and their impacts on people, homes and communities.	S1	Society	S1-1	Embedded in the newly developed Local Housing Strategy, LBAP, newly developed Local Development Plan and Open Space Strategy, supported development of local resilience planning. Have established a Resilient Business & Communities working group.

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Increase the awareness of the impacts of climate change to enable people to adapt to future extreme weather events.	S2	Society	S2-1	Embedded in the newly developed Local Housing Strategy, Results of both LCLIPs were widely promoted and published to raise corporate and public awareness. Have established a Resilient Business & Communities working group. Working with high schools to raise awareness of resilience. See also Local Flood Risk Management Plans and links to National Flood Risk Assessment by SEPA.
Support our health services and emergency responders to enable them to respond effectively to the increased pressures associated with a changing climate.	S3	Society	S3-1	Exploring capacity building e.g. first aid training, ties in with other community health empowerment initiatives such as issuing of defibrulators.

4(e) What arrangements does the body have in place to review current and future climate risks?

Provide details of arrangements to review current and future climate risks, for example, what timescales are in place to review the climate change risk

The Angus Council Climate Change Strategy 2012-16 has been used as basis for an Adaptation Action Plan which is to be a component of the Angus Sustainable Energy & Climate Action Plan. Many projects covered in the original strategy are ongoing and valuable. There is potential for them to be streamlined into focused work that ties directly into the mandatory reporting template. Progress will be monitored through regular meetings of the Climate Change Member Officer Group- Adaptation Working Group.

Flood Risk Management Planning allows for the updating of National Flood Risk Assessments for changing forecasts for climate change and impact on adaptation actions.

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4(f) What arrangements does the body have in place to monitor and evaluate the impact of the adaptation actions?

Please provide details of monitoring and evaluation criteria and adaptation indicators used to assess the effectiveness of actions detailed under

The Climate Change Adaptation Working Group continues to set the tone of adaptation work in Angus. Partnership work is key and there are many strong adaptation focused teams collaborating in the group. An Action Plan is in draft format and delivery will be monitored by the group. The work of the group will then be reported to the Climate Change Member Officer Group twice per year and will ultimately form the adaptation section on the Angus SECAP. A Flood Risk management Member Officer Group continues to meet and adaptation delivered through flood risk management is regularly monitored.

River South Esk Partnership Steering Group continues to meet 3 times p.a. and reviews the impacts of projects including those with an adaptation element. A consultation is currently active to form a second catchment management plan in which adaptation features heavily. Interim and Final Reports on the delivery of actions in the Local Flood Risk Management Plans are published 2-3 years and 5-6 years after publication of the Plans, i.e. 2019 and 2022 respectively.

4(g) What are the body's top 5 priorities for the year ahead in relation to climate change adaptation?

Provide a summary of the areas and activities of focus for the year ahead.

Angus Council achieved their 5 targets for 2018/19. Going forward we hope to:

1. Through the Member/Officer Group for climate change – Adaptation Working Group deliver and monitor the adaptation “Action Plan” that will be a key component of the Sustainable Energy & Climate Action.
2. Use the Open/Green Space audit and Strategy to contribute to future adaptation actions in urban and rural areas.
3. Deliver both the Angus Shoreline Management Plan 2 and Local Flood Risk Management Plans.
4. Deliver the Tayside Local Biodiversity Action Plan 2016-26 & develop a 2nd edition River South Esk Catchment Management Plan.
5. Engage in community resilience networks enabling the community to participate in adaptation works in their communities.

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4(h) Supporting information and best practice

Provide any other relevant supporting information and any examples of best practice by the body in relation to adaptation.

<https://www.angus.gov.uk/media/tayside-local-biodiversity-action-plan-20162026>

<https://www.angus.gov.uk/media/smp2-main-document>

<http://theriversouthesk.org/projects/>

<https://www.youtube.com/watch?v=2TGKyb496mw>

https://www.angus.gov.uk/the_environment/flooding_and_coastal_erosion/tay_estuary_and_montrose_basin_local_flood_risk

<http://www.readyscotland.org/my-community/local-plans-and-good-practice/edzell-flood-group-and-action-plan/>

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PART 5: PROCUREMENT

5(a) How have procurement policies contributed to compliance with climate change duties?

Provide information relating to how the procurement policies of the body have contributed to its compliance with climate changes duties.

The Council's sustainable procurement policy position remains as stated in the 2016 report: Angus Council at its meeting on 22 March 2012 approved sustainable procurement policy which applies to all Council procurement. Work has been completed to carry out a 'Prioritisation Exercise' using the tools developed by Sustainable Procurement Limited.

A report was submitted to the Procurement Sounding Board at its meeting on 8 December 2015 which proposed a series of next steps to devise an Angus Sustainable Procurement Plan and self-assessment against the 'Flexible Framework'. The revised overall target for preparation of the action plan was December 2016 and self-assessment against the 'Flexible Framework' in December 2017

5(b) How has procurement activity contributed to compliance with climate change duties?

Provide information relating to how procurement activity by the body has contributed to its compliance with climate changes duties.

Since the Council's report in 2016, a Sustainable Procurement Working Group was formed and work has taken place to take forward work to develop a sustainable procurement plan for the Council. This included work with Sustainable Procurement Limited to help the Council approach this on a strategic, categorised basis using a "sustainability test" and a "prioritisation tool" in line with the Scottish Government's Procurement Journey guidance. However, due to staff resource changes and other Service priority changes, this work was not taken forward as from May / June 2016. At this point in time, no plans are in place to revive that activity

5(c) Supporting information and best practice

Provide any other relevant supporting information and any examples of best practice by the body in relation to procurement.

Since the Council's report in 2016, no other sustainable procurement best practice activity examples have been brought forward.

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PART 6: VALIDATION AND DECLARATION

6(a) Internal validation process

Briefly describe the body's internal validation process, if any, of the data or information contained within this report.

This report has circulated to the Carbon, Adaptation & Sustainability Working Groups and also to the Climate Change Carbon Member Officer Group. It was subsequently circulated across all Council Services as part of the committee report consultation process.

6(b) Peer validation process

Briefly describe the body's peer validation process, if any, of the data or information contained within this report.

N/A. See above

6(c) External validation process

Briefly describe the body's external validation process, if any, of the data or information contained within this report.

N/A. See above

6(d) No validation process

If any information provided in this report has not been validated, identify the information in question and explain why it has not been validated.

N/A. See above

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6e - Declaration

I confirm that the information in this report is accurate and provides a fair representation of the body's performance in relation to climate change.

Name	Role in the body	Date
TBC - Stewart Ball	Head of Communities, Place.	

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RECOMMENDED – WIDER INFLUENCE

Q1 Historic Emissions (Local Authorities only)

Please indicate emission amounts and unit of measurement (e.g. tCO2e) and years. Please provide information on the following components using data from the links provided below. Please use (1) as the default unless targets and actions relate to (2).

(1) UK local and regional CO2 emissions: **subset dataset** (emissions within the scope of influence of local authorities);

(2) UK local and regional CO2 emissions: **full dataset**:

Select the default target dataset

Subset

Table 1a - Subset

Sector	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Units	Comments
Total Emissions	953.03	940.62	929.05	856.49	886.48	815.51	853.25	818.85	743.68	711.67	674.7	ktCO2	
Industry and Commercial	350.35	347.14	340.6	307.93	314.19	293.34	312.5	292.72	256.23	237.57	206.2	ktCO2	
Domestic	342.22	332.77	335.16	301.84	323.52	279.95	300.14	286.88	243.53	228.56	216.2	ktCO2	
Transport total	260.47	260.7	253.3	246.72	248.77	242.22	240.61	239.24	243.92	245.54	252.3	ktCO2	
Per Capita	8.47	8.28	8.11	7.46	7.68	7.02	7.34	7.04	6.37	6.09	5.8	tCO2	
Waste												tCO2e	
LULUCF Net Emissions												ktCO2	
Other (specify in 'Comments')													

Table 1b - Full

Sector	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Units	Comments
Total Emissions	1062.84	1050.33	1023.55	949.36	977.04	903.64	946.81	891.74	799.64	766.23		ktCO2	
Industry and Commercial	359.93	359.64	350.28	320.47	324.67	304.7	323.58	309.08	267.16	247.92		ktCO2	
Domestic	342.22	332.77	335.16	301.84	323.52	279.95	300.14	286.88	243.53	228.56		ktCO2	
Transport total	263.43	264.12	256.74	250.18	252.23	245.64	244.05	242.73	247.47	248.98		ktCO2	
Per Capita	9.45	9.25	8.94	8.27	8.47	7.78	8.15	7.67	6.85	6.55		tCO2	
Waste												tCO2e	
LULUCF Net Emissions	97.26	93.79	81.37	76.88	76.62	73.36	79.04	53.05	41.48	40.77		ktCO2	
Other (specify in 'Comments')													

Sector	Description	Type of Target (units)	Baseline Value	Start Year	Target Saving	Saving in latest year measured	Comments
	N/A see comment						

Q3) Policies and Actions to Reduce Emissions

Sector	Start year for policy/ action implementation	Year that policy/ action will be fully implemented	Annual CO2 saving once fully implemented (tCO2)	Latest Year Measured	Saving in latest year measured (tCO2)	Status	Metric/ Indicators for Monitoring Progress	Delivery Role	During project/ policy design and implementation, has ISM or an equivalent behaviour change tool been used?	Please give further details of this behaviour change activity	Comments
Sustainable Energy Action & Climate Plan under development	2020	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	

Please provide any detail on data sources or limitations relating to the information provided in Table 3

Q4) Partnership Working, Communication and Capacity Building.

Please detail your Climate Change Partnership, Communication or Capacity Building Initiatives below.

Key Action Type	Description	Action	Organisation's Project Role	Lead Organisation (if not reporting organisation)	Private Partners	Public Partners	Comments
Sustainable Energy Action & Climate Plan under development	Delivery of Angus SECAP through wide stakeholder engagement		Facilitation of partnership work and monitoring				

Please use the text box below to detail further climate change related activity that is not noted elsewhere within this reporting template

ACTIVE & SUSTAINABLE TRAVEL

Angus Council has been awarded funds from Smarter Choices Smarter Places (SCSP) for delivery of an active travel programme over the financial year 2019/20. A number of projects targeted at local commuters, residents, students and pupils, as well as visitors, are being delivered throughout the year to encourage a change in travel behaviour. Examples of some of the projects for this year are listed below:

- Schools: - WOW (Walk Once a Week) and Travel Tracker Programme will seek to encourage and reward active and sustainable travel to school by pupils,
 - Encourage safer parking while also promoting a reduction in traffic speed, congestion and pollution around school gates through the Park Smarter Programme,
 - an On bus-workshop and holiday hop programme will be carried out encouraging pupils to use public transport wherever possible if unable to walk or cycle.
- Cycling: - support of Angus Cycle Hub programme of community cycling programme,
 - Initiatives such as fun round the loch, Young Persons Activity Day, and Friockheim Get Cycling Get Walking Initiative ,
 - Community Bike Maintenance and Servicing Courses. installation of cycling signage and bike racks throughout the Council area.
- Walking: - Sign posting of active travel routes in Monifieth
- Community: Community Planning Project - This project will involve proactively engaging key members of the Forfar community and other stakeholders in a community engagement process designed to understand community need around accessibility and sustainable mobility in Forfar.
- Various: - support of area wide car share scheme,
 - lift share license for Council employees and,
 - social media 'Get on the Go' programme to encourage active & sustainable travel.

Cycling Walking Safer Streets: - Footpath improvements at West Links, Arbroath on National Cycle Route 1 (NCR1) as well as upgrading of existing barriers and repositioning of chicanes elsewhere on the route,

- Alteration of footway on Shanwell Road, Carnoustie to shared use footway/cycleway and,
- Other schemes are currently being identified.

Extended our EV fleet, now 8 pool cars available at Angus House which are being used extensively. All journeys are being recorded for analysis purposes.

A regional EV Strategy has recently been published with a series of actions identified both locally and regionally. Angus Council are in the process of organising a steering group to deliver on the local actions. A regional forum will also be set up to deliver on regional actions which will include Angus Council representation.