

## **Public Sector Climate Change Duties 2019 Summary Report: Moray Council**

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**RECOMMENDED – WIDER INFLUENCE**

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PART 1: PROFILE OF REPORTING BODY

1(a) Name of reporting body
Moray Council

1(b) Type of body
Local Government

1(c) Highest number of full-time equivalent staff in the body during the report year
3499

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
Other (Please specify in the	other (specify in comments)	0	None

1(e) Overall budget of the body	
Specify approximate £/annum for the report year.	
Budget	Budget Comments
199100000	Please note this figure excludes Housing Revenue Account

1(f) Report year	
Specify the report year.	
Report Year	Report Year Comments
Financial (April to March)	

1(g) Context
Provide a summary of the body's nature and functions that are relevant to climate change reporting.
Moray Council has an extensive remit and is responsible for the following functions related to climate change. Development Planning, Buildings Standards and Development Management. Waste Management, flood alleviation, fleet services, biodiversity and countryside management. The Council has a significant portfolio of buildings and assets and has responsibilities in relation to fuel poverty, Council house building, design services, energy management and asset & estate management.

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.

The Moray Sustainable Energy Action Plan (SEAP) sets outs the Council's priorities for climate change and is reported to the Council's Policy and Resources Committee.

A climate change strategy is currently in preparation with an expected implementation date of March 2020. Currently, and applicable to the 2018-19 reporting year, services such as procurement, fleet, energy and waste etc. report to the respective committees on progress.

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)

During 2018-19 there were no specific actions identified within the LOIP or the Council's Corporate Plan to specifically embed climate change actions more than they already were through existing policies and strategies.

In June 2019 the Council made a Climate Emergency Declaration with a related commitment to produce a Climate Change Strategy and Action Plan. A key part of the strategy will be the determination of the associated governance and responsibility across the organisation.

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
Reduce the Council's energy consumption by 2% per annum on a year to year basis.	Moray Council Energy Strategy	http://www.moray.gov.uk/downloads/file85115.pdf
In June 2019, the Council's Climate Emergency declaration included a requirement for a Climate Change Strategy with a net zero carbon target for 2030.		

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.

Not during 2018-19. A Climate Change Strategy is currently being prepared with a targeted adoption date of March 2020.

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				
Business travel				
Staff Travel				
Energy efficiency	Moray Council Energy Strategy	http://www.moray.gov.uk/downloads		
Fleet transport				
Information and communication technology				
Renewable energy				
Sustainable/renewable heat				
Waste management				
Water and sewerage				
Land Use	Moray Local Development Plan 2015 Climate Change Supplementary Guidance	http://www.moray.gov.uk/downloads/file108743.pdf http://www.moray.gov.uk/downloads	2015-2020	
Other (state topic area covered in comments)				

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.

Actions for Moray are set out in the Moray Sustainable Energy Action Plan which identifies the following projects.  
Continue to promote local electricity production across various renewable technologies.  
Implement active travel strategy encouraging modal shift.Continued roll out of LED lighting.  
Continue partnership working on energy from waste plant with City and Shire.  
Continue to reduce emissions relating to fleet vehicles.

Determination of both short and long term priorities are a key element of on the on-going development of the Climate Change Strategy

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.

Yes, completed during reporting year 2017  
The results are as follows  
Organisation Score  
Governance 35.7  
Emissions 26.7  
Adaptation 7.1  
Behaviour 10.0  
Procurement 6.3  
Overall 18.9

This information is helping in the development of a Climate Change Strategy for Moray.

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.

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 applicable, its sustainability reporting). Include greenhouse gas emissions from the body's estate and operations (a) (measured and reported in accordance with Scopes 1 & 2 and, to the extent applicable, selected Scope 3 of the Greenhouse Gas Protocol (b)). If data is not available for any year from the start of the year which is used as a baseline to the end of the report year, provide an explanation in the comments column.

Reference Year	Year	Scope1	Scope2	Scope3	Total	Units	Comments
Baseline carbon footprint	2017/18					0 tCO2e	Moray does not calculate carbon footprint and does not
Year 1 carbon footprint	2018/19						

3b Breakdown of emission sources

Complete the following table with the breakdown of emission sources from the body's most recent carbon footprint (greenhouse gas inventory); this should correspond to the last entry in the table in 3(a) above. Use the 'Comments' column to explain what is included within each category of emission source entered in the first column. If, for any such category of emission source, it is not possible to provide a simple emission factor(a) leave the field for the emission factor blank and provide the total emissions for that category of emission source in the 'Emissions' column.

Total	Comments – reason for difference between Q3a & 3b.	Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (tCO2e)	Comments
14440.8		Diesel (average biofuel blend)	Scope 1	1343636 litres		2.62694 kg CO2e/litre		3529.7	
		Gas Oil	Scope 1	257224 litres		2.97049 kg CO2e/litre		764.1	
		Petrol (average biofuel blend)	Scope 1	10926 litres		2.20307 kg CO2e/litre		24.1	
		Grid Electricity (generation)	Scope 2	15963735 kWh		0.28307 kg CO2e/kWh		4518.9	
		Grid Electricity (transmission)	Scope 3	15963735 kWh		0.02413 kg CO2e/kWh		385.2	
		Natural Gas	Scope 1	22815767 kWh		0.18396 kg CO2e/kWh		4197.2	
		Gas Oil	Scope 1	3062739 kWh		0.27652 kg CO2e/kWh		846.9	
		Water - Supply	Scope 3	133091 m3		0.344 kg CO2e/m3		45.8	
		Water - Treatment	Scope 3	109265 m3		0.708 kg CO2e/m3		77.4	
		Biomass (Wood Chips)	Scope 1	1547421 kWh		0.01506 kg CO2e/kWh		23.3	
		Biomass (Wood Pellets)	Scope 1	849980 kWh		0.01506 kg CO2e/kWh		12.8	
		Purchased Heat and Steam	Scope 2	83130 kWh		0.18746 kg CO2e/kWh		15.6	

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 Total consumed by the organisation (kWh)	Renewable Heat Total consumed by the organisation (kWh)	Comments
Biomass		2525531	0.4 schools including supply by 3rd parties
Solar thermal		18123	0. Forres Pool
Solar PV	2791	0	Elgin HS

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, transport, travel and heat targets should be included.

Name of Target	Type of Target	Target	Units	Boundary/scope of Target	Progress against	Year used as	Baseline figure	Units of baseline	Target completion	Comments
Corporate Energy	percentage		total % reduction	Energy use in buildings		2012/13	51235033 kWh		2022/23	

3e Estimated total annual carbon savings from all projects implemented by the body in the report year

Total	Emissions Source	Total estimated annual carbon savings (tCO2e)	Comments
112.47	Electricity	85.4	
	Natural gas	13.02	
	Other heating fuels	5.57	
	Waste		
	Water and sewerage	8.48	
	Business Travel		
	Fleet transport		
	Other (specify in comments)		

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 CO2e savings	Are these savings figures estimated or actual?	Capital cost (£)	Operational cost (£/annum)	Project lifetime (years)	Primary fuel/emission source saved	Estimated carbon savings per year (tCO2e/annum)	Estimated costs savings (£/annum)	Behaviour Change	Comments
Urinal Controls	Corporate	2019/20	Estimated	21000	0	20	Water - Supply		8.4 13000		
Boilerhouse Insulation	Corporate	2019/20	Estimated	2300	0	20	Gas Oil		5.57 605		
LED Lighting in Sports	Corporate	2019/20	Estimated	70000	0	15	Grid Electricity		80 25000		Savings include maintenance
BEMS Boiler Control	Corporate	2019/20	Estimated	4700	0	10	Natural Gas		7.21 1175		
Draught-proofing -	Corporate	2019/20	Estimated	1050	0	10	Natural Gas		2.57 420		

3g Estimated decrease or increase in the body's emissions attributed to factors (not reported elsewhere in this form) in the report year

If the emissions increased or decreased due to any such factor in the report year, provide an estimate of the amount and direction.

Total	Emissions source	Total estimated annual emissions (tCO2e)	Increase or decrease in emissions	Comments
	0 Estate changes			
	Service provision			
	Staff numbers			
	Other (specify in			

3h Anticipated annual carbon savings from all projects implemented by the body in the year ahead

Total	Source	Saving	Comments
	0 Electricity		
	Natural gas		
	Other heating fuels		
	Waste		
	Water and sewerage		
	Business Travel		
	Fleet transport		
	Other (specify in comments)		

3i Estimated decrease or increase in the body's emissions attributed to factors (not reported elsewhere in this form) in the year ahead

If the emissions are likely to increase or decrease due to any such factor in the year ahead, provide an estimate of the amount and direction.

Total	Emissions source	Total estimated annual emissions (tCO2e)	Increase or decrease in emissions	Comments
	0 Estate changes			
	Service provision			
	Staff numbers			
	Other (specify in			

3j Total carbon reduction project savings since the start of the year which the body uses as a baseline for its carbon footprint

If the body has data available, estimate the total emissions savings made from projects since the start of that year ("the baseline year").

Total	Comments

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.

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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).

Climate change adaptation risks are identified and assessed as part of the SEA process required for plans and policies. The Council participates in the local flood management districts working in partnership with neighbouring local authorities, Scottish Water and SEPA. The Findhorn, Nairn and Speyside Local Flood Risk Management Plan was published in June 2016 and is currently in the implementation phase. The plans for cycle 2 are currently being prepared and these will be implemented between 2022 and 2028.

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.

Through surface water management plans the Council will aim to reduce the amount of surface water and infiltration entering the combined sewers, promote sustainable drainage solutions in development proposals aimed at maximising the ecological and amenity benefit. Flood protection schemes are currently designed with a 20% allowance for climate change, however this allowance is currently under review and is likely to increase in future. The Council develops catchment based flood risk management plans, which identify flood risk and proposed mitigation factoring in climate change. These plans adopt an integrated catchment based approach to flood risk management including links to River Basin Management Plans.

The Moray Local Development Plan 2015 provides the policy framework for climate change adaption to be taken onto account when determining development proposals. Climate Change Supplementary Guidance has been prepared and developers are required to demonstrate who climate change mitigation and adaption have been taken into account within the development.

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 risk and implement action.

Local Development Plan policies require development to avoid areas at risk of flooding, coastal erosion and landslip. Flood risk assessments and drainage impact assessments are required for new developments. The Council check that climate change is taken into account in Developers flood risk assessments and sustainable drainage (SUDS) designs. Ensuring new development is planned to minimise future vulnerability in a changing climate. Specifically a 20% increase in peak river flow volume or peak rainfall intensity must be applied to all designs including soakaways.

The Moray Local Development Plan 2015 promotes a masterplan approach to the development of large scale sites and work in partnership with key agencies such as Scottish Natural Heritage and SEPA to embed climate change adaption into development through blue and green networks, biodiversity and habitat connectivity. Masterplans are supported by sustainability statements which include consideration of green infrastructure provision, SUDs and flood risk.

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")?

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.

(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.

Objective	Objective	Theme	Policy / Proposal reference	Delivery progress made	Comments
Understand the effects of climate change and their impacts on the natural environment.	N1	Natural Environment		The Council has prepared and is responsible for the implementation of flood risk management plans and surface water management plans	
Support a healthy and diverse natural environment with capacity to adapt.	N2	Natural Environment		The Local Development Plan promotes the enhancement and protection of biodiversity to assist in increasing resilience to climate change and its impacts.	
Sustain and enhance the benefits, goods and services that the natural environment provides.	N3	Natural Environment		The Local Development Plan promotes the enhancement and protection of biodiversity to assist in increasing resilience to climate change and its impacts.	
Understand the effects of climate change and their impacts on buildings and infrastructure networks.	B1	Buildings and infrastructure networks		The Council has prepared and is responsible for the implementation of flood risk management plans and surface water management plans.	
Provide the knowledge, skills and tools to manage climate change impacts on buildings and infrastructure.	B2	Buildings and infrastructure networks		Implementation of Moray Housing Standard.  Implementation of Climate Change Supplementary Guidance.	
Increase the resilience of buildings and infrastructure networks to sustain and enhance the benefits and services provided.	B3	Buildings and infrastructure networks			
Understand the effects of climate change and their impacts on people, homes and communities.	S1	Society			
Increase the awareness of the impacts of climate change to enable people to adapt to future extreme weather events.	S2	Society			
Support our health services and emergency responders to enable them to respond effectively to the increased pressures associated with a changing climate.	S3	Society			

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 assessments referred to in Question 4(a) and adaptation strategies, action plans, procedures and policies in Question 4(b).

Continued work on flood risk management and surface water management plans and application of strategic environmental assessment (SEA) process to new plans and policies.

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 Question 4(c) and Question 4(d).

Flood protection schemes are managed and maintained to ensure steady state performance through the life cycle of the scheme.

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.

Flood Risk Management continues to be a key priority for Moray Council. Continued implementation of climate change as primary policy of the Moray Local Development Plan 2015.

Working with SNH to embed biodiversity enhancement in new developments through master-planning and quality audit processes, with the aim of creating high quality, well connected accessible green and blue networks throughout growth areas in our towns and villages.

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.

## **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 Procurement Strategy 2019 – 2020 states: The Council commits to improve our management practices to reduce our impact on the environment. Our procurement objectives in this area link to the Council's ten year strategic plan and include:

- Increase the areas recycling rates
- Reduce the biodegradable waste to landfill
- Reduce greenhouse gases by considering delivery and transportation issues, utilising zero or low carbon technologies
- Support the development of sustainable construction
- Encourage our contractors to care for the environment by minimising environmental impacts
- Reduce energy use
- Promote the use of renewable energy sources.

Sustainability is a key strategic objective in ensuring Moray achieves "Best Value" whilst delivering on procurement duties and responsibilities under the Procurement Reform (Scotland) Act 2014.

Activities around sustainability include:

- Procurement team challenging each project to consider sustainability issues at stage one of the development of the requirement
- Performance reported annually based on Moray categorisation of benefits
- The Council will use the Scottish Government Flexible Framework tool to measure our progress against organisational procurement strategies and help build an action plan for future developments in this area
- Make use of the Scottish Government prioritisation tool to establish the sustainable priorities for each Council service (annually)

### **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.

During the past year, 13 of our tendered contracts have included specific terms in respect of sustainable construction, greenhouse gases, energy efficiency, waste disposal that contribute to climate change duties.

### **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.

Each individual Procurement project includes development of a Procurement Strategy which forces the consideration of including sustainability clauses / terms in the specification and at the evaluation stages.

PART 6: VALIDATION AND DECLARATION

<b>6(a) Internal validation process</b>
Briefly describe the body’s internal validation process, if any, of the data or information contained within this report.
None.

<b>6(b) Peer validation process</b>
Briefly describe the body’s peer validation process, if any, of the data or information contained within this report.
None.

<b>6(c) External validation process</b>
Briefly describe the body’s external validation process, if any, of the data or information contained within this report.
None.

<b>6(d) No validation process</b>
If any information provided in this report has not been validated, identify the information in question and explain why it has not been validated.

<b>6e - Declaration</b>		
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.		
<b>Name</b>	<b>Role in the body</b>	<b>Date</b>
Graeme Davidson	Acting Head of Housing and Property Services	2019-11-29

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	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Units	Comments
Total Emissions	971.02	884.78	929.82	858.49	936.5	936.31	806.38	789.1	0	0	0	ktCO2	
Industry and Commercial	534.59	474.9	502.54	472.05	536.72	548.67	447.24	435.18	0	0	0	ktCO2	
Domestic	269.42	245.63	264.72	227.57	241.74	231.06	198.37	188.42	0	0	0	ktCO2	
Transport total	167.01	164.25	162.56	158.87	158.04	156.58	160.78	165.5	0	0	0	ktCO2	
Per Capita	10.46	9.5	9.92	9.18	10.08	9.92	8.51	8.26	0	0	0	tCO2	
Waste												tCO2e	
LULUCF Net Emissions												ktCO2	
Other (specify in 'Comments')													

Table 1b - Full													
Sector	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Units	Comments
Total Emissions	786.27	696.06	763.39	707.67	821.56	759.32	609.29	618.25				ktCO2	
Industry and Commercial	545.17	488.15	513.83	484.97	549.26	568.45	459.38	445.8				ktCO2	
Domestic	269.42	245.63	264.72	227.57	241.74	231.06	198.37	188.42				ktCO2	
Transport total	169.22	166.44	164.73	160.98	160.15	158.69	162.91	167.61				ktCO2	
Per Capita	8.47	7.47	8.15	7.57	8.84	8.05	6.43	6.47				tCO2	
Waste												tCO2e	
LULUCF Net Emissions	-197.54	-204.16	-179.9	-165.85	-129.6	-198.88	-211.37	-183.58				ktCO2	
Other (specify in 'Comments')													

Sector	Description	Type of Target (units)	Baseline	Start year	Target	Target /	Saving in	Latest	Comments

Q2b) Does the Organisation have an overall mission statement, strategies, plans or policies outlining ambition to influence emissions beyond your corporate boundaries? If so, please detail this in the box below.

The Climate Emergency Declaration made in June 2019 includes an aspiration to reduce carbon emissions and includes recognition of the role that Moray Council can play in reducing emissions across the whole of the Moray.

Q3) Policies and Actions to Reduce Emissions													
Sector	Start year for policy / action imple - mentation	Year that the policy / action will be fully imple - mented	Annual CO2 saving once fully imple - mented (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	Value of Investment (£)	Ongoing Costs (£/ year)	Primary Funding Source for Implementat ion of Policy / Action

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	3rd Sector Partners	Ou tpu ts	Comments

OTHER NOTABLE REPORTABLE ACTIVITY

Q5) Please detail key actions relating to Food and Drink, Biodiversity, Water, Procurement and Resource Use in the table below.				
Key Action Type	Key Action Description	Organisation's Project Role	Impacts	Comments

Q6) Please use the text box below to detail further climate change related activity that is not noted elsewhere within this reporting template