

Item: 10

Policy and Resources Committee: 22 November 2022.

Climate Change Reporting Duties.

Report by Corporate Director for Neighbourhood Services and Infrastructure.

1. Purpose of Report

To present the Climate Change Duties Report for 2021.

2. Recommendations

The Committee is invited to note:

2.1.

The Climate Change Duties Report, attached as Appendix 1 to this report, which summarises the actions undertaken by the Council during the period 1 April 2021 to 31 March 2022 in order to fulfil its climate change duties.

2.2.

That the Climate Change Duties Report is due for submission to the Scottish Government by 30 November 2022.

It is recommended:

2.3.

That the Climate Change Duties Report, attached as Appendix 1 to this report, be approved for submission to the Scottish Government.

3. Background

3.1.

Each of Scotland's 32 local authorities signed Scotland's Climate Change Declaration in 2007. As signatories to the Declaration, each local authority is committed to the following actions:

- Providing effective leadership, governance and management on climate change.
- Reducing the authority's corporate greenhouse gas emissions from its estate, services and functions.
- Acting to reduce emissions from the local authority area.
- Assessing the risks of climate change impacts and working with others, to adapt to the likely impacts of climate change.

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

3.2.

The Climate Change (Scotland) Act 2009 introduced legislation to enforce the requirements of the Declaration and Part 4 of the Act, which came into force on 1 January 2011, places duties on public bodies relating to climate change. These duties require that the Council must, in exercising its functions, act to:

- Contribute to the delivery of emission reduction targets (mitigation).
- Help deliver any statutory climate change adaptation programme (adaptation).
- Do this in a way that it considers most sustainable (acting sustainably).

3.3.

In December 2020, an update to the Scottish Government climate change plan 2018-2032 – ‘Securing a green recovery on a path to net zero’ – legislation was strengthened to require public bodies to prepare reports on compliance, with climate change duties for submission containing details on the following:

- A target date for achieving zero direct emissions of greenhouse gases or such other targets that demonstrate how the body is contributing to Scotland achieving its emissions reduction targets.
- Any targets for reducing indirect emissions of greenhouse gases.
- How the Council aligns its spending plans and use of resources to contribute to reducing emissions and delivering its emissions reduction targets.
- How the Council will publish or otherwise make available its progress towards achieving its emissions reduction targets.
- How the Council is contributing to Scotland’s Adaptation Programme.

3.3.1.

The Council is statutorily required to provide the above in annual reports from reporting year 2021/22 onwards, as part of The Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Order 2020.

3.4.

The Public Bodies Climate Change reporting mechanism provides a base for tracking public sector action on climate change and driving continuous improvement. The reporting platform introduces a standard methodology to improve data consistency. Reports and analysis are publicly available, increasing accountability and transparency, and making it easier for members of the public and other parties to understand an organisation’s climate performance. This in turn helps improve leadership and engagement, to ensure climate change objectives are integrated into corporate business plans and action is embedded across all service areas.

3.5.

Climate Change Duties reporting was previously administered by the Sustainable Scotland Network, but this responsibility has now been taken in-house by the Scottish Government. Reports previously submitted by the Council continue to be available at <https://sustainablesotlandnetwork.org/reports/orkney-islands-council>.

4. Orkney Islands Council Climate Change Duties Report

4.1.

The template for climate reporting has been provided by the Scottish Government through the Sustainable Scotland Network and has been updated upon previous years in line with extended duties on public bodies. The report is split into the following sections, with the last section on wider influence being a recommended completion:

- Governance.
- Emissions and Projects.
- Adaptation.
- Procurement.
- Validation.
- Wider Influence (recommended).

4.2.

The draft report, attached as Appendix 1, has been compiled using information provided by officers from a range of Council services, and requires to be submitted to the Scottish Government by 30 November 2022. If recommended for approval, the report will be submitted in draft to the Scottish Government and following ratification at the General Meeting of the Council on 6 December 2022, officers will confirm to the Scottish Government that the report is no longer in draft.

4.3.

The main elements of the reporting to note are:

- Overall carbon emissions have increased mainly due to increased harbour operations post-pandemic.
- Climate change considerations have been implemented via the most recent Sustainable Procurement Strategy.
- Working from home statistics are based on assumptions from last year as this data is not available. Many staff continue to work on a hybrid basis.
- Financial planning with regards to spending on climate change is set at directorate level as opposed to the local authority as a whole.
- Officers continue to work on climate relevant programmes and projects including flood risk management, active travel and local biodiversity projects.

4.4.

The Council has successfully recruited a Climate Change Strategy Officer, with the officer due to take up post in early 2023.

5. Corporate Governance

This report relates to the Council complying with governance and scrutiny and therefore does not directly support and contribute to improved outcomes for communities as outlined in the Council Plan and the Local Outcomes Improvement Plan.

6. Financial Implications

There are no financial implications arising directly as a result of the recommendations of this report.

7. Legal Aspects

The Council has duties in relation to climate change as set out in Part 4 of the Climate Change (Scotland) Act 2009 and related reporting duties as set out in The Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Order 2020 and as further described in the body of this report. Preparation and submission of the annual Climate Change Duties report fulfils the Council's obligations under this legislation.

8. Contact Officers

Hayley Green, Corporate Director for Neighbourhood Services and Infrastructure, extension 2301, Email hayley.green@orkney.gov.uk

Roddy Mackay, Head of Planning and Community Protection, extension 2350, Email rodny.mackay@orkney.gov.uk

Susan Shearer, Service Manager (Development and Marine Planning), extension 2533, Email susan.shearer@orkney.gov.uk

9. Appendix

Appendix 1: Public Sector Climate Change Duties Report 2021/22.

Public Sector Report on Compliance with Climate Change Duties 2022 Template

PART 1 Profile of Reporting Body

1a Name of reporting body

Provide the name of the listed body (the "body") which prepared this report.

Orkney Islands Council

1b Type of body

Select from the options below

Local Government

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

1823

THIS MUST BE COMPLETED

1d Metrics used by the body

Specify the metrics that the body uses to assess its performance in relation to climate change and sustainability.

Metric	Units	Value	Comments
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Other (please specify in comments)	Absolute Emissions Values	26290.00	tCo2e - less marine fuel (detailed in OIC Carbon Management Plan)
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			

Overall budget of the body

Specify approximate £/annum for the report year.

Budget	Budget Comments
£91,206,500	

Report type

Specify the report year type

Report type	Report year comments
Financial	

THIS MUST BE COMPLETED

Context

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

Orkney Islands Council provides the public with a range of services that are statutorily required of Scotland's local authorities. Additionally, the Council provides a range of inter-island ferries and air flights to link the North and South Islands of Orkney with the Orkney Mainland. Municipal waste is either recycled or shipped to Shetland for incineration which powers a district heating scheme in the main town of Lerwick. The authority provides pilotage and towage services for oil and gas at Flotta oil terminal and provides a base within Scapa Flow for ship to ship transfers of oil. It also provides a berth for visiting cruise liners (2020 -21 = 0, 2021-22 = 25). The Council operates the Orkney Wildlife Information and Records Centre and supports the development of a number of renewable energy projects including, on and offshore wind, solar, heat, green hydrogen and tidal innovations locally.

PART 2 Governance, Management and Strategy

Governance and management

2a 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. Provide a diagram / chart to outline the governance structure within the body.

Action on Climate change is managed through the carbon management programme and the strategic environmental impact assessment (SEA) process at present. Other policies and projects are developed and delivered on an ad hoc basis per policy or project at present. There are a number of related member/officer working groups that liaise around climate change projects, plans and strategies. The Council is a facilitating member of the Orkney Action on Climate change is managed through the carbon management programme and the strategic environmental impact assessment (SEA) process at present. Other policies and projects are developed and delivered on an ad hoc basis per policy or project at present. There are a number of related member/officer working groups that liaise around climate change projects, plans and strategies. The Council is a facilitating member of the Orkney Partnership which maintains Orkney's Community Plan. The Council Corporate Plan 2018-2023 shares the mission of 'Working together for a better Orkney'. The shared values of both plans are: Resilience, Enterprise, Equality, Fairness, Innovation, Leadership and Sustainability. Additionally, the Councils strategic priorities were developed with the Orkney community, and are: Connected Communities, Caring Communities, Thriving Communities, Enterprising Communities and Quality of Life.

A delivery plan has been developed which lists the key actions and projects that will deliver the target outcome under each strategic priority theme. The delivery plan indicates which actions and projects are wholly in the control of the Council, and those which rely on external factors. It also contains some actions which are carried over from the previous Council Plan and the Council's response to the recommendations of the Accounts Commission contained in the Best Value Assurance Report of December 2017.

Climate change mitigation within Orkney Islands Council is led by its Development and Marine Planning team which, in turn, forms part of the Neighbourhood Services and Infrastructure Directorate.

At the Community level, the Council is responsible for community planning, along with its partner organisations.

Both the Council's Corporate Asset Management Plan 2019-2023 and its Fleet and Plant Asset Management Plan 2013-2018 highlight energy performance as one of the key drivers which, when correctly interpreted, offer the 'building blocks' for sound decision making. The Corporate Asset Management Plan establishes an asset management framework to drive the development of service plans and promotes the principles of corporate reporting and investment prioritisation.

A Capital Planning and Asset Management Strategy Group provides co-ordination, direction and operational asset management planning; and the Corporate Leadership Team, acting as an Officers' Capital Working Group, provides an oversight of the management of corporate assets within the Council, as well as a decision-making gateway to ensure that management decisions are undertaken in a corporate manner. Significant work is already underway in several of ten sectoral asset categories, where implementation of the energy database system monitoring and recording energy and water usage as part of the carbon emissions reduction programme are included under the Property category.

The Fleet and Plant Asset Management Plan reports on asset management performance, providing energy performance and environmental impact data for the Council's fleet vehicles and plant equipment. It also notes that, although work is already underway to reduce carbon emissions, further consideration must be given to this issue, given that the strategic approach to replacement is MEAT (Most Economically Advantageous Tender) focused at present. Equally, looking at the type of fleet we purchase, in fuel terms (i.e. fossil vs. alternatives), this is currently under review to consider the opportunities that are available to lessen the Council's carbon footprint by progressive replacement of the fleet with funded alternatives (i.e. hydrogen or electrically powered hybrids or single power sources). This may be influenced by the ongoing Local Authority participation in any Scottish Government requirements to discharge their duties in terms of the Climate Change (Scotland) Act 2019.

The Sustainable Procurement Strategy (February) 2022 has been reviewed and updated following a period of public consultation incorporating updates to climate change and Sustainability legislative changes. These include: The Equality Act 2010, the

<Insert Diagram Here or Attach File>

2b How is climate change action managed and embedded in 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. Provide a diagram to show how responsibility is allocated to the body's senior staff, departmental heads etc.

<Insert Diagram Here or Attach File>

Strategy

2c 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.

2d 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.

Forthcoming 2022/23

2e 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 covered	Comments
Adaptation	N/a			
Business travel	Carbon Management Programme	https://www.orkney.gov.uk/Council/C/Carbon-Management-Programme.htm	2016-2026	
Staff Travel	Carbon Management Programme	https://www.orkney.gov.uk/Council/C/Carbon-Management-Programme.htm	2016-2026	
Energy efficiency	Carbon Management Programme	https://www.orkney.gov.uk/Council/C/Carbon-Management-Programme.htm	2016-2026	
Fleet transport	Carbon Management Programme	https://www.orkney.gov.uk/Council/C/Carbon-Management-Programme.htm	2016-2026	
ICT	n/a			
Renewable energy	The Council Plan	https://www.orkney.gov.uk/Service-Directory/Performance/council-plan.htm	2018-2023	
Sustainable/renewable heat	Carbon Management Programme	https://www.orkney.gov.uk/Council/C/Carbon-Management-Programme.htm	2016-2026	
Waste management	Orkney and Shetland Area Waste Plan	https://www.orkney.gov.uk/Service-Directory/R/policies-and-plans-waste-and-recycling.htm		
Water and sewerage	Kirkwall Surface Water Management Plan	https://www2.sepa.org.uk/frmstrategies/pdf/pva/PVA_03_05_Full.pdf		
Land Use	N/a			
Other (please specify in comments)	Carbon Management Programme	https://www.orkney.gov.uk/Council/C/Carbon-Management-Programme.htm	2016-2026	Efficient street lighting and emissions reduction.
Other (please specify in comments)	The Council Plan	https://www.orkney.gov.uk/Service-Directory/Performance/council-plan.htm	2018-2023	Improve cycle and walkway paths in the county, eliminate single use plastics, housing and fuel poverty, and develop strategic renewable development projects.
Other (please specify in comments)	Orkney Green Travel Plan	https://www.orkney.gov.uk/Files/Transport/Green_Travel_Plan.pdf		Adoption of plug in vehicles and active travel.
Other (please specify in comments)	Verge Maintenance Plan	https://www.orkney.gov.uk/Council/P/verge-maintenance.htm		Inhibit the growth of dangerous weeds (weeds Act 1959), to manage the roadside verges in a manner that promotes biodiversity by conserving, wherever possible, special wildlife habitats and wild flowers.
Other (please specify in comments)	Orkney Harbours Master Plan	https://orkneyharboursmasterplan.com/	2019 - 2030 onwards	Phase 1 & Phase 2
Other (please specify in comments)	Orkney Flood Risk Management Plan	https://www2.sepa.org.uk/frmstrategies/pdf/pva/PVA_03_05_Full.pdf		Flood Risk Management strategies
Other (please specify in comments)	Procurement Strategy 2022	Sustainable Procurement Policy (orkney.gov.uk)	2022-2023	We will ensure that our procurement minimises its contribution to climate change and supports goods, services and works that are well-adapted to the consequences of a changing climate. More detail in outcome 2 (page 9).
Other (please specify in comments)	Sustainable Procurement Policy	Sustainable Procurement (orkney.gov.uk)	2022-2023	The policy sets out the aims of this Council to ensure that sustainability is incorporated into our procurement and commissioning activities to ensure that it is undertaken in a sustainable manner and for the benefit of, not only the Council, but also to our island communities, the economy and the environment.
Other (please specify in comments)	Orkney Harbours Master Plan			
Please select from drop down box				
Please select from drop down box				

2f 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.

Develop appropriate climate change strategy and associated plan.
Integrate climate change into Corporate plan.
Support the growth of the Net Zero element of the Islands Growth Deal.
Develop a programme to increase knowledge and gather opinions on climate change mitigation and adaptation.
Continue Development of Community Wind Projects and projects as part of the Orkney Hydrogen Strategy.

2g 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.

(a) This refers to the tool developed by Resource Efficient Scotland for self-assessing an organisation's capability / performance in relation to climate change.

N/a

Further information

2h 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.

N/a

PART 3 Corporate Emissions, Targets and Project Data

Emissions

3a Emissions from the 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 baseline year to the end of the report year, provide an explanation in the comments column.

(a) No information is required on the effect of the body on emissions which are not from its estate and operations.

(b) This refers to "The greenhouse gas protocol. A corporate accounting and reporting standard (revised edition)", World Business Council for Sustainable Development, Geneva, Switzerland / World Resources Institute, Washington DC, USA (2004), ISBN: 1-56973-568-9.

ENSURE QUESTION 1f IS COMPLETED BEFORE STARTING THIS SECTION, THEN SELECT APPROPRIATE BASELINE YEAR

Reference year	Year	Year type	Scope 1	Scope 2	Scope 3	Total	Units	Comments
Baseline Year	2006/07	Financial	16,202	5,773	549	22,524	tCO ₂ e	
Year 1 carbon footprint	2007/08	Financial	15,695	5,992	563	22,250	tCO ₂ e	
Year 2 carbon footprint	2008/09	Financial	15,617	5,606	495	21,717	tCO ₂ e	
Year 3 carbon footprint	2009/10	Financial	16,251	5,955	550	22,757	tCO ₂ e	
Year 4 carbon footprint	2010/11	Financial	15,997	5,443	550	21,991	tCO ₂ e	
Year 5 carbon footprint	2011/12	Financial	15,033	5,507	470	21,011	tCO ₂ e	
Year 6 carbon footprint	2012/13	Financial	15,853	5,780	428	22,062	tCO ₂ e	
Year 7 carbon footprint	2013/14	Financial	14,674	6,543	457	21,675	tCO ₂ e	
Year 8 carbon footprint	2014/15	Financial	16,531	7,030	649	24,210	tCO ₂ e	
Year 9 carbon footprint	2015/16	Financial	16,293	6,998	692	23,983	tCO ₂ e	
Year 10 carbon footprint	2016/17	Financial	16,278	5,320	1,049	22,647	tCO ₂ e	
Year 11 carbon footprint	2017/18	Financial	16,370	4,535	1,128	22,033	tCO ₂ e	
Year 12 carbon footprint	2018/19	Financial	16,345	3,381	1,023	20,748	tCO ₂ e	
Year 13 carbon footprint	2019/20	Financial	16,059	2,869	978	19,906	tCO ₂ e	
Year 14 carbon footprint	2020/21	Financial	14,287	2,743	646	17,676	tCO ₂ e	
Year 15 carbon footprint	2021/22	Financial	16,267	2,744	723	19,734	tCO ₂ e	

3b Breakdown of emissions 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 there is no data consumption available for an emission source enter the emissions in kgCO₂e in the 'Consumption' column of one of the "Other" rows and assign the scope and an emission factor of 1.

(a) Emissions factors are published annually by the UK Department for Business, Energy & Industrial Strategy

Emission Factor Year

2021

The emission factor year is auto-assigned based on your answer to Q1f, if it is incorrect please contact SSN.

You can now filter emission sources by "type" in column C to enable quicker selection of emission source in column D.

User defined emission sources can be entered below remote/homeworking emissions - rows 101 to 129. If you require extra rows in the table please send the template to ccreporting@ed.ac.uk.

Emission	Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (tCO ₂ e)	Comments
Electricity	Grid Electricity (generation)	Scope 2	12,924,369	kWh	0.21233	kg CO ₂ e/kWh	2,744.2	Electricity - Metered
Electricity	Grid Electricity (transmission & distribution losses)	Scope 2	12,924,369	kWh	0.01879	kg CO ₂ e/kWh	242.8	Electricity - unmetred
Electricity	Gas Oil litre	Scope 1	958,797	litres	2.75857	kg CO ₂ e/litre	2,644.9	Grid Electricity (Tx and Dist Losses)
Fuels	LPG litres	Scope 1	135,239	litres	1.55709	kg CO ₂ e/litre	210.6	Heating Gas Oil
Fuels	Average Car - Unknown Fuel	Scope 3	1,150,711	km	0.17148	kg CO ₂ e/km	197.3	LPG
Transport	Domestic flight (average passenger)	Scope 3	449,429	passenger km	0.24587	kg CO ₂ e/passenger km	110.5	Business Mileage
Transport	Long-haul flights (average passenger)	Scope 3	6,382	passenger km	0.19309	kg CO ₂ e/passenger km	1.2	Domestic Flights
Transport	Ferry (average passenger)	Scope 3	48,009	passenger km	0.11286	kg CO ₂ e/passenger km	5.4	Longhaul flights
Transport	Marine Gas Oil litres	Scope 1	2,881,182	litres	2.77539	kg CO ₂ e/litre	7,996.4	Ferry Fleet
Fuels	Marine Gas Oil litres	Scope 1	723,529	litres	2.77539	kg CO ₂ e/litre	2,008.1	Tugs
Fuels	Marine Gas Oil litres	Scope 1	167,732	litres	2.77539	kg CO ₂ e/litre	465.5	Harbour Craft
Fuels	Aviation spirit litres	Scope 1	140,000	litres	2.33048	kg CO ₂ e/litre	326.3	Inter Islands Air Transport
Fuels	Diesel (average biofuel blend)	Scope 1	120,000	litres	2.51233	kg CO ₂ e/litre	301.5	Public Transport Bus Fleet
Fuels	Diesel (average biofuel blend)	Scope 1	589,123	litres	2.51233	kg CO ₂ e/litre	1,480.1	Construction and Waste Processing
Waste	Refuse Municipal to Landfill	Scope 1	397	tonnes	446.24150	kgCO ₂ e/tonne	177.2	Factors are significantly lower than OIC factors which include shipping to Shetland (853 T CO ₂) see row 101 below
Waste	Mixed recycling	Scope 1	553	tonnes	21.29357	kg CO ₂ e/tonne	11.8	Factors are significantly lower than OIC factors which include shipping to Shetland (853 T CO ₂) see row 101 below
Waste	Refuse Municipal /Commercial /Industrial to Combustion	Scope 1	1,170	tonnes	21.29357	kgCO ₂ e/tonne	24.9	Factors are significantly lower than OIC factors which include shipping to Shetland (853 T CO ₂) see row 101 below
	Hybrid/Homeworking emissions	Scope 3	30.00%	percentage of total FTEs	0.30000	tCO ₂ e/FTE/annum	164.1	Estimate
	Other (please specify in comments)	Scope 1	1,175	kg	528.47000	kgCO ₂ e/tonne	621.0	Waste - Additional emissions from shipping waste

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 the body (kWh)	Total exported (kWh)	Total consumed by the body (kWh)	Total exported (kWh)	
Ground Source Heat Pump			2472234	0	
Wind	112,429				
Solar PV	120,752				

Targets

3d Organisational targets

List all of the body's targets of relevance to its climate change duties. Where applicable, targets for reducing indirect emissions of greenhouse gases, overall carbon targets and any separate land use, energy efficiency, waste, water, information and communication technology, transport, travel and heat targets should be included. Where applicable, you should also provide the body's target date for achieving zero direct emissions of greenhouse gases, or such other targets that demonstrate how the body is contributing to Scotland achieving its emissions reduction targets.

Name of target	Type of target	Target	Units	Boundary/scope of target	Year used as baseline	Baseline figure	Units of baseline	Target completion year	Progress against target	Comments
Carbon Management Programme	Percentage	42	total % reduction	Other (please specify in comments)	2005/06	26,136	tonnes	2025/26	18	18% reduction. Scope based on building energy use, business travel, staff mileage, waste, road fleet, tugs, ferries and harbour craft, public bus contract and inter island air service.

3da How will the body align its spending plans and use of resources to contribute to reducing emissions and delivering its emission reduction targets?

Provide any relevant supporting information

Spending on climate related projects is done so on an ad hoc basis per service areas within the local authority. The most significant spend on climate related projects relates to the Local Authority's development of the 'strategic projects' – onshore wind projects at Hoy, Quanterness and Faray.

Otherwise, the budgets are set and each service has discretion on how they spend their budgets and achieve reductions in emissions. This can be seen, for example, through the purchase of electric vehicles, or the installation of insulation and photovoltaic panels at Council houses.

The Repairs and Maintenance outturn budget monitoring reports for the 2021/22 will give evidence of repairs and remedial works undertaken. The Capital Expenditure outturn details the Council's capital projects and progress. Progress and spending in relation to Energy Efficiency Standards for Social Housing is reported via the Council chamber on an annual basis.

3db How will the body publish, or otherwise make available, its progress towards achieving its emissions reduction targets?

Provide any other relevant supporting information. In the event that the body wishes to refer to information already published, provide information about where the publication can be accessed.

Publication of annual carbon emissions through Scottish Government reporting and report to elected representatives.
Use of branding and webspace to communicate Climate Change - <https://www.orkney.gov.uk/Council/C/orkney-climate-aware.htm>

Projects and changes

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

If no projects were implemented against an emissions source, enter "0".

If the body does not have any information for an emissions source, enter "Unknown".

If the body does not include the emissions source in its carbon footprint, enter "N/A".

Emissions source	Total estimated annual carbon savings (tCO ₂ e)	Comments
Electricity	63	Additional electricity used by heat pumps
Natural gas		
Other heating fuels	156	Oil offset by new heat pump installation
Waste		
Water and sewerage		
Travel		
Fleet transport		Continue to expand electric vehicle fleet as part of vehicle replacement programme, no data available yet
Other (please specify in comments)		
Total	219	

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 CO ₂ e 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 (tCO ₂ e/annum)	Estimated costs savings (£/annum)	Behaviour Change	Comments
Smiddybrae House - Heat Pumps	Capital project	2021/22	Actual	800,000	74230	20	Fuel Oil kWh	7,500	No	No	Existing boiler plant at end of life

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

Emissions source	Total estimated annual emissions (tCO ₂ e)	Increase or decrease in emissions	Comments
Estate changes		Please select from drop down box	no significant change in estate
Service provision		Please select from drop down box	
Staff numbers		Please select from drop down box	
Other (please specify in comments)		Please select from drop down box	
Please select from drop down box		Please select from drop down box	
Total		-	

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

If no projects are expected to be implemented against an emissions source, enter "0".

If the organisation does not have any information for an emissions source, enter "Unknown".

If the organisation does not include the emissions source in its carbon footprint, enter "N/A".

Emissions source	Total estimated annual carbon savings (tCO ₂ e)	Comments
Electricity	26	Electricity used by heatpump (St Andrews Primary School)

Natural gas		
Other heating fuels	20	Offset by heatpump installation (St Andrews Primary School)
Waste		
Water and sewerage		
Travel		
Fleet Transport		
Other (please specify in comments)		
Total	46	

3i Estimated decrease or increase in emissions from other sources in the year ahead

If the body's corporate emissions are likely to increase or decrease for any other reason in the year ahead, provide an estimate of the amount and direction.

Emissions source	Total estimated annual emissions (tCO ₂ e)	Increase or decrease in emissions	Comments
Estate changes	6	Increase	Extension of St Andrews Primary School
Service provision		Please select from drop down box	
Staff numbers		Please select from drop down box	
Other (please specify in comments)		Please select from drop down box	
Please select from drop down box		Please select from drop down box	
Total		6	

3j Total carbon reduction project savings since the start of the year which the body used 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 savings	Total estimated emissions savings (tCO ₂ e)	Comments
Total project savings since baseline year		

Further information

3k Supporting information and best practice

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

PART 4 Adaptation

Assessing and managing risk

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

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

Orkney Islands Marine Region: State of the Environment Assessment 2020 (<https://www.orkney.gov.uk/Service-Directory/D/orkney-islands-marine-region-state-of-the-environment-assessment.htm>) provides a snap-shot of the physical, environmental, social and economic condition of the Orkney Islands marine region, including a summary of significant pressures and impacts from climate change.

The Local Flood Risk Management Plan for Orkney (<https://www.orkney.gov.uk/Service-Directory/F/local-flood-risk-management-plan.htm>) takes forward the actions set out in the Flood Risk Management Plan for Orkney published by the Scottish Environment Protection Agency (SEPA). This document was referred to in the first cycle as the Strategy and identifies what works or actions are to be undertaken locally during the period 2016-2022 and how these are to be funded.

The Interim Report to the Local Flood Risk Management Plan, published in 2019, (https://www.orkney.gov.uk/Files/Planning/Flooding/Section_37_Orkney_Report_Accessible.pdf) shows the progress made in delivering the actions to avoid and reduce the risk of flooding and prepare and protect ourselves and our communities across the local plan district up to the mid-point of the first cycle six year cycle. The Final Report (Section 38) will show progress on all actions by the end of the first cycle. The Final Report must be published by 31 December 2022.

The Council worked with SEPA and Scottish Water to develop flood risk management actions to be delivered in Orkney between 2022 and 2028. These were published by SEPA in the 2nd Cycle Flood Risk Management Plan for the Orkney Local Plan District in January 2022. The Orkney Local Flood Risk Management Plan identifies what actions are to be undertaken locally and how they are to be funded.

The Council has worked closely with the Scottish Flood Forum (SFF) to raise awareness of flood risk to householders and businesses in flood vulnerable locations in Orkney. A member/officer seminar on flood risk took place with SFF in September 2021, with public flood awareness events involving the SFF and the Council taking place the same week.

In April 2022, SFF inspected and later provided Property Flood Reports for a number of houses on the Orkney mainland and linked isles. Following the April visit, a flood action group was initiated by the community in South Ronaldsay and Burray. This developed well over Summer 2022.

The Council continues to work with SEPA and Scottish Water to gather data to ensure that the best information on climate and drainage is available as flood risk management actions are undertaken.

The Council will continue to raise awareness of flood risk at every opportunity, including school visits and at public events in conjunction with partners such as SEPA, SFF and Sustrans.

The Council will continue to promote the SEPA Floodline in all flood related-press releases.

4b 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.

The Council has prepared the Orkney Islands Regional Marine Plan - Consultation Draft. The Plan has been prepared in accordance with the Delegation of Functions (Regional Marine Plan for the Scottish Marine Region for the Orkney Islands) Direction 2020. Regional marine plans have a statutory purpose to set economic, social and marine ecosystem objectives, and objectives relating to the mitigation of, and adaptation to, climate change. The Consultation Draft is due to be deposited for public consultation in Summer 2023, subject to approval by Scottish Ministers. Public authorities are required to take any authorisation or enforcement decision in accordance with the appropriate regional marine plan, unless relevant considerations indicate otherwise. Public authorities are also required to have regard to the appropriate regional marine plan in making any decision which relates to the exercise by them of any function capable of affecting the Scottish marine area. The Council worked with the Scottish Environment Protection Agency (SEPA) on the development of the revised coastal flood warning system for Orkney. This SEPA system has been live since September 2018. The coastal flood warning system drives public alerts and warnings and operational discussions between the Council and SEPA at times of heightened flood risk. The Kirkwall Harbour Flood Protection Scheme and associated works were completed in 2018. Operation of the scheme is triggered when Kirkwall threshold values are reached in the SEPA coastal Flood Early Warning System. The Kirkwall Flood Prevention Scheme is operational. These events resulted in the Orkney Local Emergency Co-ordinating Group activating a multi-agency response across multiple locations, using assets from HMCD, Scottish Fire and Rescue Service, Police Scotland and the Council. Each event was reviewed, and any lessons learnt incorporated in the respective plan. The Council is to develop water and flooding guidance to developers in Orkney in order to ensure that flood risk management requirements are met, and make sure that opportunities for environmental enhancement, promotion of biodiversity and mitigation of the effects of future climate change are not missed.

Taking action

4c 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. The body may wish to make reference to the Scottish Climate Change Adaptation Programme ("the Programme").

Council officers have participated in a national steering group led by the Scottish Environment Protection Agency (SEPA) to prepare guidance for local authorities to prepare Coastal Change Adaptation Plan.

A major action from the 2nd cycle SEPA Flood Risk Management plan for the Orkney Local Plan District is a Coastal Change Adaptive Plan (CCAP) for Orkney. This will be carried through to the Orkney Local Flood Risk Management Plan when it is published by 31 December 2022. The CCAP will help improve our understanding of the risks associated with coastal erosion and flooding in Orkney, both today and into the future. Decisions on future development and land use in coastal areas will be informed by the CCAP.

The Kirkwall Surface Water Management Plan is to be updated and developed by the Council in consultation with flood risk partners. Further to the completion of the Kirkwall Surface Water Management Plan, detailed studies of key individual sub-catchments within Kirkwall are to be taken forward to inform land use planning.

4d Where applicable, what contribution has the body made to helping deliver the Programme?

Provide any other relevant supporting information

As above

Review, monitoring and evaluation

4e 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).

Flood risk management actions take place on a 6 year repeating cycle as required by the 2009 Flood Risk Management (Scotland) Act. The national-level Flood Risk Management Plan for the Orkney Local Plan District, produced by the Scottish Environment Protection Agency, is followed within 12 months by the Orkney Local Flood Risk Management Plan, produced by Orkney Islands Council.

A Local Flood Risk Management Plan Interim Report is to be published by the Council 3 years into each Local Flood Risk Management Plan 6 year cycle and at the end of each cycle, a Local Flood Risk Management Plan Final Report is to be published.

Planning and preparatory work for the next Flood Risk Management cycle, informed by new data and outputs from earlier and current cycles, takes place concurrent with the current cycle.

4f 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).

In addition to the 6 year do/review cycle under the Flood Risk Management (Scotland) Act, adaptive actions to come from the Orkney Coastal Change Adaptive Plan will be based on adaptive pathways and have identified trigger points for following actions. As such, monitoring and review will be central to these adaptive actions.

Future priorities for adaptation

4g What are the body's top 5 climate change adaptation priorities for the year ahead?

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

Publish the Orkney Islands Regional Marine Plan - Consultation Draft for formal public consultation.
Publish updated Flood Risk Management Plan for 2023.
Assess and update adaptation relevant datasets.
Continue public engagement on adaptation topics.
Develop appropriate flood risk guidance for developers.

Further information

4h Supporting information and best practice

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

N/a

PART 5 Procurement

5a 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 Sustainable Procurement Strategy (February) 2022 has been reviewed and updated following a period of public consultation incorporating updates to climate change and sustainability legislative changes. These include: The Equality Act 2010, the Equality Act 2010 (Specific Duties) (Scotland) Regulations 2012, The Fairer Scotland Duty, Equality Act (Part 1 of the Equality Act 2010) – commenced 2018, The Climate Change (Emissions Reduction Targets) (Scotland) Order 2015, Climate Change (Emissions Reduction Targets) (Scotland) Act 2019, Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Amendment Order 2020. The updated Sustainable Procurement Policy has incorporated the Scottish Procurement Policy Note issued by the Scottish Government, taking account of Climate and Circular Economy Considerations (SPPN) 01/2021 and the Implementation of Fair Work First in Scottish Procurement (SPPN) 03/2021.

The Orkney Islands Council Sustainable Procurement Impact Assessment (SPiA) screens climate related action in section 2, as follows:

2.Climate Change:

Will the procurement minimise contribution to climate change and support goods, services and works that are well-adapted to the consequences of a changing climate. (Y/N)

5b 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.

Delivery of the commitments made in this policy will be supported through the implementation of the Council's Procurement Strategy 2019 to 2021 and the Council's Procurement Annual Report. Progress against the stated objectives will be monitored and reported on an annual basis as part of the Procurement Service Improvement Action Plan 2019 to 2021 via the Council's Performance Management System.

Further information

5c Supporting information and best practice

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

This Policy outlines how the Council takes a responsible and sustainable approach to procurement. The Policy will be reviewed on an annual basis to ensure it is line with any emerging Council commitments on Climate Change and remains in accord with emerging Scottish Government Policy, reflected in the Paris Agreement on Climate Change, COP 26 and beyond, as appropriate. The detailed risks and opportunities in the sustainable procurement tools align with Scotland's National Performance Framework (NPF) and Scotland's National Outcomes and Indicators, achieving a line of sight between procurement activity and local and national strategic priorities:

- Climate Change.
- Materials.
- Waste.
- Hazardous Materials.
- Biosecurity.
- Biodiversity.
- Heritage.
- Water.
- Employment, Skills and Training.
- Communities.
- Equality.
- Fair Work.
- Fairly and Ethically Traded.
- Health and Wellbeing.
- Security and Crime.

PART 6 Validation and Declaration

6a Internal validation process

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

The Report is presented for approval to a meeting of the Council's Policy and Resources Committee on 22 November 2022.

6b Peer validation process

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

The Report is then presented for approval to the General Meeting of the Council on 6 December 2022.

6c External validation process

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

External validation of waste data is undertaken by the Scottish Environment Protection Agency. This is done on an annual basis of the Calendar year 1st January to 31st December.

6d 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.

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:	Susan Shearer
Role in the body:	Service Manager (Development and Marine Planning)
Date:	31/10/2022

Recommended Reporting: Reporting on Wider Influence

Wider Impact and Influence on GHG Emissions

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).

Please note : These statistics cover territorial emissions of carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O), although not fluorinated gases, which are also included in the UK territorial greenhouse gas emissions statistics. Prior to the 2005 to 2020 publication the statistics covered emissions of carbon dioxide only

(1) UK local and regional CO₂e emissions: **subset dataset** (emissions within the scope of influence of local authorities):

(2) UK local and regional CO₂e emissions: **full dataset**:

<https://data.gov.uk/dataset/723c243d-2f1a-4d27-8b61-cdb93e5b10ff/emissions-of-carbon-dioxide-for-local-authority-areas>

Local Authority:(Please State)	Orkney Islands
BEIS Dataset:(full or sub-set)	Subset

Source	Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Units
BEIS Sectors	Total Emissions	159.35	173.03	159.63	163.65	157.92	148.54	140.11	131.60	127.63	124.81	118.77	110.68	ktCO ₂ e
	Industry and Commercial	22.02	26.79	22.85	23.53	22.46	20.93	18.63	15.26	14.80	14.30	12.81	11.24	ktCO ₂ e
	Domestic	64.82	70.02	63.13	65.82	61.86	54.50	49.76	44.13	40.66	39.60	36.65	36.36	ktCO ₂ e
	Transport total	31.28	31.32	30.53	29.79	30.13	31.12	32.27	33.75	34.14	33.19	32.37	26.70	ktCO ₂ e
	Per Capita	7.61	8.15	7.45	7.60	7.32	6.88	6.47	6.02	5.80	5.62	5.33	4.94	ktCO ₂ e

2a) Targets
Please detail your wider influence targets

Sector	Description	Type of Target (units)	Baseline value	Start year	Target	Target/End year	Saving in latest year measured	Latest Year Measured	Comments
Please select from drop down box		Please select from drop down box		Please select from drop down box		Please select from drop down box		Please select from drop down box	
Please select from drop down box		Please select from drop down box		Please select from drop down box		Please select from drop down box		Please select from drop down box	

2b) 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.

Orkney Islands Council has facilitated and participated in the development of a number of wider community strategies that have an impact on climate change action in the region. These include:

- Orkney Sustainable Energy Strategy (2017-2025) - <https://www.oref.co.uk/wp-content/uploads/2017/10/Orkney-Sustainable-Energy-Strategy-2017-2025-1.pdf>
- Orkney Hydrogen Strategy - https://www.orkney.gov.uk/Files/Strategic_Projects/Hydrogen%20projects/Hydrogen%20strategy.pdf#:~:text=The%20Orkney%20Hydrogen%20Strategy%20seeks%20to%20aid%20development,an%20increased%20resilience%20in%20the%20local%20energy%20system
- Orkney Electric Vehicle Strategy (2018-2023) - <https://www.oref.co.uk/draft-orkney-electric-vehicle-strategy-2017-2022/>
- Orkney Sustainable Tourism Strategy (Draft)
- Strategic Tourism and Infrastructure Development Plan - <https://www.orkney.gov.uk/Files/Committees-and-Agendas/Development%20and%20Infrastructure/DI2022/DI15-02-2022/Item%2016%20%20Strategic%20Tourism%20Infrastructure%20Development%20Plan.pdf>
- Orkney Energy Action Plan
- Island Growth Deal - Islands Centre for Net Zero - Orkney Achieves Net Zero by 2030 - <https://www.islandsdeal.co.uk/leading-way-low-carbon-future/islands-centre-net-zero> (The Islands Centre for Net Zero project will be supported with joint investment of up to £16.5 million from the UK Government and Scottish Government (UKG £16 million/SG £0.5 million).
- The Scapa Flow Future Fuels Hub project will be supported with investment of up to £6.5 million from the Scottish Government - <https://www.orkney.gov.uk/Files/Council/Our%20Future/Islands%20Deal%20Programme.pdf>

Q3) Policies and Actions to Reduce Emissions
Please detail any of the specific policies and actions which are underway to achieve your emission reduction targets

Q4) Partnership Working, Communications and Capacity Building

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

Key Action Type	Description	Organisation's project role	Lead Organisation (if not reporting organisation)	Private Partners	Public Partners	3rd Sector Partners	Outputs
Partnership Working	Orkney Partnership Sustainable Recovery Group	Participant	Orkney Partnership	ASPIRE	Orkney Islands Council, NatureScot, NHS Orkney		Local Outcome Improvement Plan
Partnership Working	Orkney Renewable Energy Forum	Participant	Orkney Renewable Energy Forum	The European Marine Energy Centre Ltd, Aquatera Ltd, Heriot-Watt University	Orkney Islands Council	Community Energy Scotland	Various sustainable energy strategies in the area, networking and consultation response.
Partnership Working	Scottish Flood Forum member	Participant	Scottish Flood Forum		Orkney Islands Council, Highlands and Islands Enterprise, Royal Society for the Protection of Birds, NatureScot		Various - including North Isles Active Travel Improvements, community wildlife recording and educational projects.
Partnership Working	North Isles Landscape Partnership	Participant	Historic Environment Scotland				

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
Resource Use	Orkney Islands Council participates in and facilitates a number of high profile hydrogen projects including: BIGHIT, HySeas3, HyDime as well as participation in a number of research and collaboration projects. These demonstrate the production and use of green hydrogen across various sectors of energy use including heat, power and transport (terrestrial, aviation and marine). There are ~2MW of green hydrogen capacity, a refueling station at 350bar, 5x mobile storage units (1.25tn storage) and 2x electrolysis sites. The Council own and operate 5x symbio hydrogen fuel cell vans as part of the fleet. ~£45m project value.	Participant		
Resource Use	Community Wind Farm projects - up to 86Mw of wind development across various sites in Orkney. A number of sites have been submitted for planning permission. As well as having the potential to bring Orkney to a NET carbon zero (not total reduction in fossil fuel use), they support the needs case for an improved grid connection between Orkney and the Scottish Mainland. The projects also have the potential to generate significant revenue for the community in Orkney.	Lead		
Resource Use	Orkney Islands Council is a participant and facilitating partner in the Orkney £26.5m ReFLEX UKRI funded project. ReFLEX Orkney is pioneering an integrated, affordable, low-carbon energy system for the future. ReFLEX (Responsive Flexibility) Orkney is a £28.5 million project aiming to create an Integrated Energy System (IES) in Orkney, Scotland. Funded by UKRI through the Industrial Strategy Challenge Fund, the project is led by the European Marine Energy Centre (EMEC) with cross-sector partners including Aquatera, SMS, Community Energy Scotland, Heriot-Watt University and Orkney Islands Council.	Participant		
Biodiversity	The Council is a member of the Orkney Local Biodiversity Action Plan Steering Group and helps prepare and implement the Orkney Local Biodiversity Action Plan (LBAP). First published in 2002 then revised in 2008, 2013 and 2018, the LBAP identifies actions which can be taken locally, and which will contribute to the conservation of those species and habitats identified as being 'at risk' or 'threatened' in the UK. All four versions of the LBAP are available on the Council's website at https://www.orkney.gov.uk/Service-Directory/B/Biodiversity.htm	Participant		

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