

South Ayrshire Council

**Report by Depute Chief Executive and Director of Education
to Cabinet
of 26 November 2024**

**Subject: South Ayrshire Council Public Bodies Climate Change
Duties Annual Report 2023-2024**

1. Purpose

1.1 The purpose of this report is to present for approval the Council's statutorily required Public Bodies Climate Change Duties Annual Reporting for 2023-2024

2. Recommendation

2.1 It is recommended that the Cabinet:

2.1.1 approves the annual report for national submission; and

2.1.2 recognises as highlighted in the analysis of the report both the positive results and challenges the Council faces to increase the pace of change to fulfil the Council's duties and targets

3. Background

3.1 In 2009, the Scottish Parliament passed the Climate Change (Scotland) Act. Part 4 of the Act states that a 'public body must, in exercising its functions, act: in the way best calculated to contribute to the delivery of (Scotland's climate change) targets; in the way best calculated to help delivery any (Scottish adaptation programme); and in a way that is considers most sustainable'.

3.2 The Council and many of its Community Planning Partners have had a responsibility to take forward these duties from 1 January 2011 (see government guidance for taking forward these duties available at: [Public bodies climate change duties: putting them into practice, guidance required by part four of the Climate Change \(Scotland\) Act 2009 - gov.scot \(www.gov.scot\)](http://www.gov.scot/publications/public-bodies-climate-change-duties-putting-them-into-practice-guidance-required-by-part-four-of-the-climate-change-scotland-act-2009/pages/1-3.aspx))

3.3 In the intervening period climate change has continued to climb up the national and international agenda. It is the accepted consensus, scientific and political, that the Council now only has a small window for decisive action to prevent the worst effects of climate change and that the Council must also now prepare for those already locked into the climate system.

3.4/

- 3.4 In June 2019 South Ayrshire Council adopted its first Sustainable Development and Climate Change Strategy [Sustainable development and climate change strategy 2019-2024 \(south-ayrshire.gov.uk\)](https://www.south-ayrshire.gov.uk/2019/06/sustainable-development-and-climate-change-strategy-2019-2024/). The second iteration of this strategy is now being prepared to reflect developments both local, national and international which have taken place since the adoption of the first strategy. It should be noted that in October 2020 the Council approved a strengthened policy position agreeing organisational targets of a 75% reduction in emissions by 2030 and net zero by 2045 [Climate Change Policy \(south-ayrshire.gov.uk\)](https://www.south-ayrshire.gov.uk/2020/10/climate-change-policy/). It is important to note that these targets are based on a baseline of 2014/15 which was when a consistent organisational boundary was set, and they relate to emissions within that boundary.
- 3.5 It should be noted that, while Scottish Government has stepped away from its previous 2030 emissions reduction target following a report by the Climate Change Committee stating it was no longer credible, it has retained the national net zero by 2045 target. Scottish Government will introduce new five year carbon budgets along with other measures to ensure the pace and depth of change required to deliver against the 2045 target are being achieved. The Climate Change Committee have agreed that Net Zero for 2045 remains the correct target for Scotland – the pace of change is achievable with concerted effort. South Ayrshire Council's public sector climate change duty in relation to mitigation means the authority is legally required to respond to this through the continued reduction of the emissions which it controls and influences and it requires to continue to increase the depth and pace at which it delivers these reductions alongside adaptation and sustainability duties. Nationally essentially the pace of change has been slower than had been hoped to date, so as the Council moves towards 2045 more of the work remains to be done than had been hoped would be the case at this point in time and it must redouble efforts and accelerate the pace of change to meet the demands of the crisis.
- 3.6 This is the ninth year the current national reporting template for public bodies climate change duties, which is set out in legislation, has been used. While for some time gaps were expected in the data and information public bodies would present as they evolved their response to new duties, it is now the case that all required components are expected to be addressed by all public bodies, and guidance has been updated a number of times to make the minimum expected standards of performance clear. This includes:
- Explanation of the extent of involvement of the Chief Executive in the governance of climate change activities;
 - Evidence of the effectiveness of governance arrangements;
 - Baseline year and historic emissions from at least 2015/16 onwards;
 - Correct assignment of emissions against scope;
 - Historic emissions data consistent year on year; and
 - Data entered for all renewable installations.
- 3.7 Furthermore the reporting guidance also states that 'it is untenable for a public body not to have some form of target set and monitored to determine progress. Ideally a corporate target that applies across the organisation should be established, either as a percentage or absolute reduction or a final endpoint by a fixed date. Targets should also be set with reference to national policy and demonstrate alignment where feasible'.

- 3.8 Recent developments point to increasing requirements for public bodies reporting, particularly local authorities, in order to increase the pace of change in relation to adaptation and mitigation, both organisational and area wide. There will be an expectation that more areas are covered in the reporting, for example following the requirement to calculate home working emissions it is anticipated that this could include commuting, all modes of business travel and scope 3 emissions, and a requirement to set targets in relation to these. Public bodies targets are also increasingly likely to be driven by more stringent legislation, for example the backstop for public sector buildings to have zero heating emissions by 2038 may mean public bodies have to go beyond the targets they have already set in this area, for example net zero by 2045 in the case of South Ayrshire Council.

4. Proposals

- 4.1 It is proposed that the report (Appendix 1) is approved by the Cabinet and submitted by 30 November 2024 to the Sustainable Scotland Network who are collating and analysing the reports on behalf of Scottish Government.
- 4.2 Members are asked to note the analysis of the report findings as set out in Appendix 2, and this will be considered by the Corporate Leadership Team as they progress the work of the council to increase the pace of change on emissions reduction and climate resilience.

5. Legal and Procurement Implications

- 5.1 There are no legal implications arising from this report. The requirement for the Council to complete, approve and submit a version of the appended report template is, however, a legal requirement.
- 5.2 There are no procurement implications arising from this report.

6. Financial Implications

- 6.1 There are no financial implications arising directly from this report. However, compliance with national legislative requirements and delivery of the pace of change required to meet the Council's targets will have resource requirements, both in terms of how resources are deployed to deliver services, as well as in relation to the balance of the upfront costs in relation to whole life costs where more stringent standards are implemented. Financial implications arising from this will be considered as part of future capital and revenue budgets as well as within future Cabinet reports. As the Council makes savings going forward it will be increasingly important that the choices made set the Council on a low carbon, climate resilient trajectory – where the Council disinvests may prove to be as critical as where it chooses to invest the more limited resources available to local authorities at a time of constrained public finance.

7. Human Resources Implications

- 7.1 There are no human resource implications arising directly from this report. The Council's commitments will be delivered within existing resources with awareness and contribution from all staff.

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8. Risk

8.1 *Risk Implications of Adopting the Recommendations*

8.1.1 There are no risks associated with adopting the recommendations.

8.2 *Risk Implications of Rejecting the Recommendations*

8.2.1 The risks associated with rejecting the recommendations are that the Council will fail to submit a report that is legislatively required to be made public by the Climate Change (Scotland) Act 2009 and the Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Order 2015.

9. Equalities

9.1 The proposals in this report allow scrutiny of performance. The report does not involve proposals for policies, strategies, procedures, processes, financial decisions, and activities (including service delivery), both new and at review, that affect the Council's communities and employees, therefore an equality impact assessment is not required.

10. Sustainable Development Implications

10.1 Considering Strategic Environmental Assessment (SEA) - This report does not propose or seek approval for a plan, policy, programme or strategy or document otherwise described which could be considered to constitute a plan, programme, policy, or strategy.

10.2 A key environmental benefit of this proposal will be to increase awareness of climate change and the need for cross cutting action. This can be enhanced/ supported by pursuing the progress points for the year ahead noted in the report. The main environmental cost / challenge of this proposal will be behaviour change and identification of resources for specific action areas going forward. This can be minimised by good communications and forward planning.

11. Options Appraisal

11.1 An options appraisal has not been carried out in relation to the subject matter of this report, however many of the areas which contribute to the Council's efforts to tackle climate change have been the subject of option consideration and appraisal.

12. Link to Council Plan

12.1 The matters referred to in this report contribute to all priorities and outcomes of the Council Plan.

13. Results of Consultation

13.1 There has been no public consultation on the contents of this report.

13.2 Consultation has taken place with Councillor Martin Kilbride, Portfolio Holder for Buildings, Housing and Environment, and the contents of this report reflect any feedback provided.

14. Next Steps for Decision Tracking Purposes

- 14.1 If the recommendations above are approved by Members, the Depute Chief Executive and Director of Education will ensure that all necessary steps are taken to ensure full implementation of the decision within the following timescales, with the completion status reported to the Cabinet in the 'Council and Cabinet Decision Log' at each of its meetings until such time as the decision is fully implemented:

<i>Implementation</i>	<i>Due date</i>	<i>Managed by</i>
Completed reporting template nationally to be made publicly available alongside reports of all other public bodies	30 November 2024	Service Lead – Performance, Community Planning and Sustainability
Prepare annual report for 2024/25	31 October 2025	Service Lead – Performance, Community Planning and Sustainability

Background Papers **Report to South Ayrshire Council of 1 October 2020 - [Climate Change Policy](#)**

Report to South Ayrshire Community Planning Board of 26 August 2021 – Net Zero and a Green Recovery for Ayrshire

Report to Cabinet of 28 November 2023 – [South Ayrshire Council Public Bodies Climate Change Duties Annual Report 2022-23](#)

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Date: 20 November 2024

Public Bodies Climate Change Duties Compliance Reporting **Financial Year** Template 2023/24

1. Overview

This template is provided for public bodies required to report annually in accordance with the Climate Change (Duties of Public Bodies Reporting Requirements) (Scotland) Order 2015, as amended by the Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Amendment Order 2020 which took effect for reporting periods commencing on or after 1 April 2021.

Reports must be submitted to ccreporting@ed.ac.uk by 30th November. Late submissions will not be accepted for analysis and may be deemed non-compliant with Public Bodies Duties reporting requirements.

2. Guidance

1. Please **do not delete any cells, rows or columns**. This may corrupt the template/data and compromise analysis. You can hide any extra rows within tables.
2. Please complete the new "Boundary info" tab. This will enable improved assessment of data coverage and inform SSN analysis.
3. The "Profile of Body" tab must be completed before proceeding to add any other data.
4. To ensure that the correct emission factors are applied please ensure that you are using the correct template for the reporting year type under Q1f. If your organisation reports according to the academic year, usually August to July, you must use the Academic Year template.
5. If you need to add more rows in any table please email the file to ccreporting@ed.ac.uk
6. In Q3b emissions sources can be filtered by type in Column C. The list of available factors is visible on the Emission Factors tab. Please do not edit this list, use "other" if an EF is not available.
7. Only use the "other" rows when there is no relevant emission source available in the dropdown list or if you have bespoke data/emission factors. Please provide a brief explanation in the comment.
8. Water supply and treatment (sewage) emission factors are based on Scottish Water's carbon intensities for service supply. If you wish to use UK factors you need to enter manually in an "Other" row.
9. More detailed guidance is available on the SSN website

3. Colour Coding used in the template

	Dropdown box - select from list of options
	Uneditable/fixed entry cell
	Editable cell



Public Bodies Climate Change Duties Compliance Reporting Template 2023/24 FY

Please answer all questions below with respect to the public body's reporting boundary for the reporting period.

The information is intended to improve data coverage and inform analysis, in particular, to help identify data gaps.

There are 3 response options:

YES - where data is available and is reported

NA - where a category is relevant but no data is available

NO - the category is not relevant

Any points of clarification can be added in the comments field for the corresponding emission source(s) in Table 3b on the Emissions tab.

Category		Select from dropdown list
Owned estate	Are any buildings owned by the public body?	Yes
Managed services	Are building services managed on behalf of another public body that shares or leases space?	No
Leased premises -public	Are building services managed and provided by another public body?	No
Leased premises - private	Are building services managed and provided by a private landlord?	Yes
Streetlighting	Are streetlights owned or operated?	Yes
Fleet and equipment	Are any vehicles or fossil-fueled machinery or equipment owned or leased, excludes short-term or infrequent hires?	Yes
Refrigerants/F-gases	Are there any air conditioning or refrigeration systems that require refrigerant gas top-ups?	No
Medical gases	Are medical gases used?	NA
Business travel - private	Do staff undertake business travel by private car?	Yes
Business travel - flights	Do staff undertake any business travel by plane?	Yes
Homeworking	Do staff work from home - including hybrid?	Yes
Supply chain	Are any goods or services purchased?	Yes
Land use	Are more than 10 hectares of land owned or managed for public services provision, including for research or recreation?	Yes
Waste services	Is the public body responsible for collecting household or municipal waste?	Yes

Public Sector Report on Compliance with Climate Change Duties 2024 Template FY

PART 1 Profile of Reporting Body

1a Name of reporting body

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

South Ayrshire 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

4937.25

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
Population size served	population	112799.00	2011 census
Floor area	m2	277258.00	from asset management data
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Other (please specify in comments)	Households	56952.00	from Ayrshire Valuation Board Council Tax Register at 7/10/2024. Excludes commercial premises, garages and domestic storage premises
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)			

1e Overall budget of the body

Specify approximate £/annum for the report year.

Budget	Budget Comments
£325,489,000	Includes health and social care funding

1f Report type

Check the report year type is correct. The alternative template must be used for academic year reporting.

Reporting type	Report year comments
Financial/Calendar/Other	2023-2024

1g Context

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

South Ayrshire Council is a Scottish Local Authority with wide ranging functions all of which have an impact on and are impacted by climate change. South Ayrshire Council's operational area covers 476 square miles with a population of 112,799 (2011 census). The main population centres are Ayr, Prestwick, Troon, Girvan and Maybole, representing approximately 79% of the total. The remaining population is spread across a variety of rural areas ranging from Ballantrae in the south, to Dundonald in the north. Functions include education authority, planning authority, roads authority, social care and housing provider, environmental health, building standards, community development and leading the South Ayrshire Community Planning Partnership. Internal services such as fleet, ICT, procurement and HR are also in place to facilitate the external facing services.

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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.

As stated in the Council Plan: "The council aims to both fulfil and show leadership in relation to our statutory climate change, sustainability, and biodiversity duties across all our services, decision making and work with partners. We have committed to be net zero by 2045 and to adapt to the already locked in impacts of a changing climate. In doing so we aim to ensure a just transition for people and nature, supporting ecological recovery and wellbeing, reducing inequalities and creating sustainable, liveable places where people are connected to nature, climate literate and understand the natural systems we rely on, are supported to develop green skills and can work in a fast-evolving local green jobs market, travel less overall and make active and sustainable travel choices first." Top 5 priorities for the year ahead can therefore be interpreted as: (1) working towards net zero (2) adapting to a changing climate (3) just transition for people and nature (4) ecological recovery (5) liveable places. Key actions for delivery of this include (1) implementation of the new impact assessment for all decisions that ensures delivery against these requirements (2) adoption of a new sustainable development and climate change strategy and a local biodiversity strategy (3) restructuring and resourcing of the sustainability team and other key areas to deliver against this (4) implementation of a Sustainable Design Guide for South Ayrshire Council, Local Heat and Energy Efficiency Strategy for South Ayrshire and an Energy Master Plan for Ayrshire (5) development of and leadership via the Sustainability SDP of the Community Planning Partnership, including through locality planning and the other SDPs.

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.

The CCAT tool was used by South Ayrshire Council historically but not in recent years

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.

South Ayrshire Council works in partnership locally on climate change. In 2023/24 we have had a service level agreement with the Energy Agency and 3 Councillors sit on the Board of that organisation including the Portfolio Holder who chairs it. By working together we extended our reach and had a greater influence in relation to energy efficiency and renewables, including reaching out to local businesses, delivery of CPD to local professionals and energy lessons in primary schools. We have also taken a strategic approach to engaging with all the local secondary schools by developing and running our Provost's School Footprint Challenge, which has brought all 9 secondaries together to share and learn from each other's best practice supported by the Sustainability Team. The Provost is involved in judging the award. South Ayrshire Council made a commitment to run air shows in Ayr annually for 5 years beginning in September 2023. While it is recognised that this will generate harmful emissions, as part of this commitment the council is working with their delivery partners on 'AirshowZero', where the carbon footprint of the event will be measured and analysed with steps taken to reduce this year on year. STEM learning will be part of the event, sharing and teaching people how the aviation industry hopes to develop more efficient and less carbon intensive ways of flying going forward. From this year emissions recorded from aviation fuel used in delivery of the event feature in our annual reporting (see section 3b) and we hope to be able to record more footprint data from other aspects of the event in future years.

PART 3 Corporate Emissions, Targets and Project Data

3a Emissions

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 Scope 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: 1-56735-668-9

SELECT APPROPRIATE BASELINE YEAR, TOTAL EMISSIONS IN THE MOST RECENT REPORTING YEAR IN THIS QUESTION SHOULD EQUAL TOTAL EMISSIONS IN (a)

Reporting year	Year	Year Type	Scope 1	Scope 2	Scope 3	Total	Units	Comments
Baseline Year	2005/06	Financial/Calendar/Other	15,900	13,044	2,464	31,408	CO2e	
Year 1 carbon footprint	2006/07	Financial/Calendar/Other	14,948	12,446	2,387	29,781	CO2e	
Year 2 carbon footprint	2007/08	Financial/Calendar/Other	14,438	11,298	2,239	27,975	CO2e	
Year 3 carbon footprint	2008/09	Financial/Calendar/Other	14,091	10,833	2,133	27,057	CO2e	
Year 4 carbon footprint	2009/10	Financial/Calendar/Other	14,272	10,662	2,286	27,220	CO2e	
Year 5 carbon footprint	2010/11	Financial/Calendar/Other	15,450	10,533	2,174	28,158	CO2e	
Year 6 carbon footprint	2011/12	Financial/Calendar/Other	12,822	10,233	1,976	25,031	CO2e	
Year 7 carbon footprint	2012/13	Financial/Calendar/Other	13,182	10,339	1,842	25,363	CO2e	
Year 8 carbon footprint	2013/14	Financial/Calendar/Other	11,529	11,516	1,810	24,855	CO2e	Consistent organisational boundary applied from this FY onwards
Year 9 carbon footprint	2014/15	Financial/Calendar/Other	12,770	11,023	2,350	27,643	CO2e	
Year 10 carbon footprint	2015/16	Financial/Calendar/Other	12,830	10,205	1,955	25,390	CO2e	
Year 11 carbon footprint	2016/17	Financial/Calendar/Other	9,869	9,869	2,308	22,056	CO2e	
Year 12 carbon footprint	2017/18	Financial/Calendar/Other	9,065	9,065	2,439	21,410	CO2e	
Year 13 carbon footprint	2018/19	Financial/Calendar/Other	11,221	7,105	1,956	20,282	CO2e	
Year 14 carbon footprint	2019/20	Financial/Calendar/Other	11,048	6,070	1,794	18,912	CO2e	
Year 15 carbon footprint	2020/21	Financial/Calendar/Other	11,008	4,117	715	15,840	CO2e	
Year 16 carbon footprint	2021/22	Financial/Calendar/Other	10,303	4,612	3,998	17,913	CO2e	This figure is consistent with our agreed organisational boundary since 2014/15. It should be noted that this does not include commuting or homeworking.
Year 17 carbon footprint	2022/23	Financial/Calendar/Other	8,286.28	4,192.23	2,189.26	15,671.79	CO2e	This figure is consistent with our agreed organisational boundary since 2014/15. It should be noted that this does not include commuting or homeworking.
Year 18 carbon footprint	2023/24	Financial/Calendar/Other	8,953.77	4,934.42	712.18	14,600.37	CO2e	

3b Breakdown of emissions sources Please refrain from deleting rows or columns anywhere in this template. This workbook is password protected to prevent this and should not be unlocked.

Complete the following table with the breakdown of emissions 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 CO2e 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 Energy Security & Net Zero

Emission Factor Year: 2023

You can filter emission sources by "type" in column C to enable quicker selection of emission source in column D. See the list in the Emission Tab.

User defined emission sources can be added to rows 1-11 onwards. Please only use these if you cannot find a relevant emission source in the dropdown list or you have a bespoke emission factor or non-standard derivation of emissions e.g. based on a survey/consumption data. If you require extra rows in the table please send the template to comproting@ed.ac.uk.

Emission Type	Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (CO2e)	Comments
Electricity	Electricity - UK	Scope 2	20,329,654	kWh	0.207707	kg CO2e/kWh	4209,24854	Grid electricity in buildings, including PEP
Electricity	Transmission and distribution - Electricity UK	Scope 3	20,329,654	kWh	0.03792	kg CO2e/kWh	764,20860	Grid electricity via buildings, including PEP
Electricity	Electricity UK	Scope 2	3,499,561	kWh	0.207707	kg CO2e/kWh	728,66910	Street and traffic lighting
Electricity	Transmission and distribution - Electricity UK	Scope 3	3,499,561	kWh	0.03792	kg CO2e/kWh	132,69808	Street and traffic lighting
Fuels	Natural gas	Scope 1	31,563,098	kWh	0.18293	kg CO2e/kWh	5782,81142	Natural gas in buildings, including PEP
Fuels	Biogas	Scope 1	123	kWh	0.18293	kg CO2e/kWh	22,46988	Biogas in buildings based on report
Fuels	Burning oil (Kerosene)	Scope 1	1,616	litres	2.54016	kg CO2e/litres	4,10488	Building heating
Fuels	Gas oil	Scope 1	89,097	litres	2.73541	kg CO2e/litres	242,30451	Gas oil prepared for building heating
Fuels	LPG	Scope 1	6,969	kg	1.52513	kg CO2e/kg	10,53849	Building heating / use
Water	Water supply	Scope 3	232,334	public metres	0.10000	kg CO2e/public metres	23,23340	Clean water supply in buildings, including PEP
Water	Water treatment	Scope 3	226,117	public metres	0.10000	kg CO2e/public metres	22,61170	Clean water used for treatment including PEP
Waste	Metal: mixed cans - Recycled	Scope 3	1	tonnes	21.28081	kg CO2e/tonnes	0.02128	Council Waste Recycling
Waste	Plastic: average plastics - Recycled	Scope 3	9	tonnes	21.28081	kg CO2e/tonnes	0.19153	Council Waste Recycling
Waste	Commercial and industrial waste - Combustion	Scope 3	385	tonnes	21.28081	kg CO2e/tonnes	8,19311	Council General Waste Incineration EFW
Waste	Organic: food and drink waste - Anaerobic digestion	Scope 3	14	tonnes	8.93242	kg CO2e/tonnes	0.12477	Council Waste - AD
Waste	Paper and board: mixed - Recycled	Scope 3	14	tonnes	21.28081	kg CO2e/tonnes	0.29794	Council Waste Recycling
Fuels	Diesel (average fuel/tonne)	Scope 1	1,045,213	litres	2.11064	kg CO2e/litres	2,206,84418	Fuel used in fleet from depots
Fuels	Diesel (average fuel/tonne)	Scope 1	3,245	litres	2.53296	kg CO2e/litres	8,15002	Fuel used from outside garages
Fuels	Petrol (average fuel/tonne)	Scope 1	93,618	litres	2.69747	kg CO2e/litres	253,10318	Fuel used from outside garages
Fuels	Gas oil	Scope 1	10,643	litres	2.73541	kg CO2e/litres	29,11400	Gas oil used by staff
Transport - car	Motorcycle - petrol	Scope 3	764,497	litres	0.13178	kg CO2e/litres	100,92176	Fleet on 1.5% of work being homeworked
Transport - car	Large car - Diesel	Scope 3	76,000	litres	0.13178	kg CO2e/litres	10,01310	Fleet and hybrid above 2000cc, as reported
Transport - car	Medium car - Diesel	Scope 3	96,773	litres	0.20902	kg CO2e/litres	20,33144	Fleet and hybrid between 1600cc and 2000cc
Transport - car	Small car - Diesel	Scope 3	41,436	litres	0.20902	kg CO2e/litres	8,66138	Fleet and hybrid up to 1600cc as reported
Transport - car	Large car - Petrol	Scope 3	115,049	litres	0.43811	kg CO2e/litres	50,17556	Fleet and Hybrid Petrol above 2000cc as reported
Transport - car	Medium car - Petrol	Scope 3	226,700	litres	0.26976	kg CO2e/litres	61,10719	Fleet and Hybrid Petrol between 1600cc and 2000cc
Transport - car	Small car - Petrol	Scope 3	135,115	litres	0.26976	kg CO2e/litres	36,42514	Fleet and Hybrid Petrol up to 1600cc as reported
Transport - car	Motorbike - Average	Scope 3	8	litres	0.18294	kg CO2e/litres	0.00146	All motorcycle mileage claimed
Transport - car	Electric car - Battery Electric Vehicle	Scope 3	17,829	litres	0.00000	kg CO2e/litres	0.00000	All electric mileage claimed
Other	Combined scopes that fit in link				0.00000		0.00000	

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	31	As per projects noted in 3f
Natural gas	237	As per projects noted in 3f
Other heating fuels		
Waste		
Water and sewerage		
Travel		
Road Transport		
Other (please specify in comments)		
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Total	268	

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
Arundale PS - Lighting Replacement	SALW	2023/24	Estimated	15,545			10 Electricity UK	3	3,084 No		LED lighting and controls upgrade
Dolphin Community Centre - Lighting Replacement	SALW	2023/24	Estimated	9,500			10 Electricity UK	2	1,955 No		LED lighting and controls upgrade
Dolphin House - Lighting Replacement	SALW	2023/24	Estimated	1,185			10 Electricity UK	1	749 No		LED lighting and controls upgrade
Huishfield PS - Lighting Replacement	SALW	2023/24	Estimated	16,800			10 Electricity UK	3	3,571 No		LED lighting and controls upgrade
Green Academy - Lighting Replacement	SALW	2023/24	Estimated	17,000			10 Electricity UK	1	1,559 No		LED lighting and controls upgrade
Lochside CC - Lighting Replacement	SALW	2023/24	Estimated	6,800			10 Electricity UK	1	4,472 No		LED lighting and controls upgrade
From Post - BMV Upgrade	SALW	2023/24	Estimated	49,800			10 Natural gas	24	5,474 No		Trend upgrades including remote access
Building Energy Consumption Management	Capital / Net Zero Fund / SALW	2023/24	Estimated				1 Natural gas		598	118,935 No	Reductions from holiday shut down periods and active monitoring/ corrective actions
Internal Recycling in Schools	Zero Waste Scotland	2023/24	Estimated	166,089	0/2		10 Household/Municipal/Domestic waste - Com etc		Unknown	Yes	Re-introduced recycling within schools. Funding used to purchase external and internal bins. The internal bins are transparent and clearly labeled with the correct items that go in each bin. Waste Aware conducted education talks to all schools. Produced videos on each waste stream and what happens to it. The aim is to reduce the general waste and increase recycling including food waste within schools.
Flood Waste Project	Zero Waste Scotland	2023/24	Estimated	61,456	0/2	Ongoing	Household/Municipal/Domestic waste - Com etc		Unknown	Yes	The aim of the project was to reduce the amount of food waste being disposed of and to divert this from residual waste stream. Three separate interventions were delivered to measure the impact of each intervention in order to identify the best course of action for the Council to meet the targets. Monitoring has taken place over a period of 1 year to measure the impact of the project. Early results show the project has been a success and the participation of food waste has increased in the areas.
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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
Electricity generation	292	Increase	Maybole Community Campus opening. Campus bus ASHP for heating / hot water provision. An increase in emissions but this campus replaces several gas heated properties which have closed.
Staff numbers			
Other (please specify in comments)			
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Total	292		

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 organization does not have any information for an emissions source, enter "Unknown".
 If the organization 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	10	LED lighting projects at Girvan Academy, Dalrymple PS, Huishfield PS, St Patrick's PS, Wells Road Family Centre, Whitehills AC, Dalmlinn PS, Girvan Library
Natural gas	75	BMV upgrade projects at Girvan Academy, Coylton PS, Coyhill PS, Riverside House and Pretwick pool refurbishment
Other heating fuels		
Waste		
Water and sewerage		
Travel		
Road Transport		
Other (please specify in comments)		
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Total	85	

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
Electricity generation	292	Decrease	Closure of old Carreck Academy, Cairn PS, Gardermore PS, St Cutbert's PS, Maybole pool after opening of Maybole Community Campus. Disposal of Dem Park stadium and old Ayr Grammar. Lease of Forrester's hall.
Staff numbers			
Other (please specify in comments)			
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Please select from drop down box			
Total	292		

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.

South Ayrshire Council was an early adopter of Carbon Management with a very early initial baseline year being established of 2005/6 and a Carbon Management Plan in place by 2008. A lot has been done in the interim period with many projects taking place

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PART 4 Adaptation - please do not include information in this part on measures that solely reduce emissions with no implications for climate adaptation. These are climate mitigation measures which should be reported in the Emissions tab.

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).

Yes. The potential risk that the Council may fail to deliver its commitments under the public sector climate change duty has been identified. Full information explaining cause, potential effect, risk rating, current mitigations, proposed mitigations (and status on their progress) is contained within the Council's Directorate Risk Register in 2023/24 and has also been elevated to the Council's Strategic Risk Register since 2021. More detailed assessment of adaptation and resilience related risks to different areas of service are still required although in some areas the work has begun, for example in relation to Coastal Change Adaptation Planning.

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.

Full details of the risk mitigations and the associated procedures, strategies and action plans are contained within the Directorate Risk Register in 2023/24 and the Strategic Risk Register. The Council also maintains Civil Contingency Plans and tests scenarios including severe weather, loss of utilities and pandemic illness. These are routinely reviewed with senior management teams to ensure plans are up to date and staff are familiar with the processes. Council plans and strategies play a role in increasing awareness of the need to adapt. The Local Development Plan 2 has provisions to help adapt to the effects of climate change through the protection of peat land, implementation of SUDS, support for and improvement of green networks. Our Open Space Strategy commits to incorporate adaptation measures where appropriate. The Council's online training and the Provost's School Footprint Challenge also all play a part in raising wider awareness of the need for climate change adaptation. Work has also now begun to develop Coastal Change Adaptation Plans for our coastline and Nature Networks using the AECOM tool which will support resilience for nature.

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").

Risk procedures outlined above play an important role in managing and responding to climate related risks for the organisation. Council plans and strategies play a role in increasing awareness of the need to adapt. The Local Development Plan 2 has provisions to help adapt to the effects of climate change through policies such as the protection of peat land, implementation of SUDS, support for and improvement of green networks. Our Open Space Strategy commits to incorporate adaptation measures where appropriate. The Council's online training offer, communications with staff and the Provost's School Footprint Challenge also all play a part in raising wider awareness of the need for climate change adaptation. In the report year the council has continued to harness natural sand dune succession processes to allow natural coastal defences to develop in some shore front locations. The use of local planting in shorefront areas with sand dune species has also been used to reduce erosion, reduce maintenance requirement, and protect assets. The Council has also undertaken focused studies in certain communities with identified challenges, for example Ballantrae coastal adaptation planning case study and Troon flood study.

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

Provide any other relevant supporting information

Development of the 2nd cycle Ayrshire Flood Risk Management Plan with South, East and North Ayrshire Councils which identifies actions that we are proposing to take to better understand flood risk from river, coastal and surface water flooding and to develop solutions to mitigate that flood risk. Both SEPA and Scottish Water have their own actions in the plan.

The Prestwick Strategic Drainage Project which we are working in partnership with Scottish Water to implement. That includes the St Ninians Park work and street works to remove surface water from the combined sewer system and installation of storm water tanks to improve the ability of the sewer system to deal with severe weather events. It is at the early stages, but some work has been carried out already and will continue over the next decade.

The Troon Coastal Flood Study considers climate change scenarios when developing the coastal model and will consider possible actions that may be required to mitigate coastal flood risks identified.

The planning process in SAC considers climate change in terms of flood risk and all new developments must comply with the flood risk requirements of National Planning Framework 4 and Local Development Plan 2.

SAC also have an inspection regime for their coastal protection assets and carry out maintenance works on a priority basis.

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).

In 2023-24 Climate Change Risk was managed within both the Directorate Risk Register which is reviewed, updated, and approved at the Directorate Management Team on a six-monthly basis and the Council's Strategic Risk Register which was scrutinised and approved at both the Audit and Governance Panel and Cabinet on a 6 monthly basis. In 2023/24 the risk was owned and managed by the Directors of Strategic Change and Communities and Housing Development and Operations, as well as the Service Leads for Policy, Performance and Community Planning, Neighbourhood Services and Asset Management.

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).

All Risk Registers are regularly reviewed and updated on a six monthly basis. The level of risk is assessed and amended as appropriate when mitigation measures have been put in place and the level of risk reduced. It should be noted that the individual plans and projects which make a contribution in relation to adaptation as set out above have a varying monitoring and review processes set out within them, however particularly for wider ranging strategies these are not always focused on their adaptation outcomes. The Council's new Integrated Impact Assessment includes 10 environmental questions picking up both directly and indirectly on adaptation and climate resilience. It is hoped that implementation and monitoring of the IIA reporting and associated mitigation actions will help to deliver both an improvement in awareness and mainstreamed action on adaptation across the organisation as well as a bank of data to support monitoring and evaluation of progress.

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.

In June 2019 the Council adopted its new Sustainable Development and Climate Change Strategy. The impact of climate change for Scotland and South Ayrshire are discussed in the introduction and relevant actions are contained within the document. Many actions have a part to play in adaptation. These actions, which are for delivery over 5 years, include: - Develop a Food Strategy which will cover food growing as well as wider issues about food sustainability - Risks associated with climate change are given appropriate consideration on corporate and services risk registers - Ensure the Council's climate change risks are assessed and covered appropriately through the service planning process - Use our natural environment and green infrastructure to help adapt to and mitigate the impacts of climate change - Raise awareness and understanding of climate change in primary and secondary schools and the wider community through Earth Hour and the Provost's School Footprint Challenge. - Work in partnership with businesses and communities to ensure infrastructure is resilient to the impacts of climate change - Embed a proactive approach to climate change adaptation in relevant council strategies and partnerships. In taking the strategy forward a key aspect will be considering "Scotland Adapts: A Capability Framework for a Climate Ready Public Sector", which has been released since the development of the strategy. In early 2023 we carried out benchmarking of our progress against the framework and set out steps to progress across all four capabilities in a more targeted way. This will now be used to track our adaptation progress as opposed to the previous five steps approach. The development of the next iteration of the strategy is now underway and will incorporate this action plan to progress against the adaptation framework and SCAP3. We will also be developing a Coastal Change Adaptation Plan for all of the Ayrshire coastline along with North Ayrshire Council and this will include a Decision Makers Toolkit and an Education Pack.

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 adaptation.

The Council was involved in the development of 'Climate Ready Biosphere' vision and action plan which increased both awareness and action being taken locally in relation to climate change adaptation. South Ayrshire Council continues to work with the South West Scotland Environmental Information Centre following the conclusion of the 'Where's Wildlife in Ayrshire' project. The council has participated in the benchmarking working group in relation to Scotland Adapts. In response to Dynamic Coast 2 the council is currently delivering an ongoing project looking at coastal erosion in Ballantrae and is now beginning the development of an Ayrshire Coastal Change Adaptation Plan together with North Ayrshire Council supported by NatureScot and Scottish Government. The Council is in the process of finalising new Sustainable Design Guidance which when implemented will see improvement in the sustainability of new build and refurbishment projects taken forward by the council, not only reducing their footprint and readying them to function in a low carbon future, but also increasing their resilience to a changing climate in South Ayrshire. The Council has also introduced a new Integrated Impact Assessment procedure for all council decisions which includes 10 environmental questions which address adaptation directly and indirectly, supporting better consideration and decision making in this area.

Public Sector Report on Compliance with Climate Change Duties 2024 Template

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.

South Ayrshire Council's Sustainable Development and Climate Change Strategy sets out a coherent framework for Council projects, policies and initiatives which mitigates climate changing emissions, plans for adapting to the impacts of climate change and promotes sustainable development, including sustainability in procurement. Going forward, the Council's new Integrated Impact Assessment will also support this in relation to all decisions made by the Council. South Ayrshire Council is committed to achieving improved standards of sustainable procurement throughout the Council, in accordance with the duties set out within the Procurement Reform (Scotland Act) 2014.

Minimising the impact on the environment is a consideration for all tender exercises for procuring goods, services and works. In line with the Scottish Government's purpose of increasing sustainable economic growth, EU and UK 'green' procurement legislation, the Council initiates savings in materials, energy and waste, where possible and promotes a sustainable approach to the way we conduct our business.

This approach is in line with the Council's Procurement Strategy Key Objective 4; Development of Collaborative Opportunities and Fulfilment of Sustainable Procurement Duties and ensures that the Council complies with its Sustainable Procurement Duties, which is a mandatory requirement under the Reform Act. South Ayrshire Council continue to follow the Scottish Government's Sustainable Procurement Action Plan, in conjunction with statutory guidance, while updating our progress against sustainability targets using the Flexible Framework self-assessment tool (FFSAT).

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.

At the Procurement strategy stage of every procurement exercise Procurement work with Service Leads from any particular area to identify what sustainability outcomes could be delivered via the contract in question. All tendered Procurement projects include SAC's standard clause on Sustainability, see below and all are considered for every tender exercise:

Sustainability Clause

South Ayrshire Council's Sustainable Development and Climate Change Strategy sets out a coherent framework for Council projects, policies and initiatives which mitigates climate changing emissions, plans for adapting to the impacts of climate change and promotes sustainable development, including sustainability in procurement.

Aligned to the objectives of the Scottish Government's Climate Change Plan (2018-2032) and National Performance Framework Sustainable Development goals, the Council aims to ensure delivery and compliance with this policy and practice to the highest level and is pro-actively encouraging organisations it contracts with to adopt similar commitments.

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.

During 2023/24 the Council carried out multiple procurement exercises with sustainable pledges/submissions from suppliers. Some examples from our Minor Works Framework are below:

South Ayrshire's commitment to Sustainability is underlined via our supply chain by the development and maintenance of an Environmental Management System (EMS) which is accredited to ISO 14001:2015. Whilst delivering the Minor Frameworks works for South Ayrshire Council in order to minimise the impact on climate change and reduce carbon footprint, suppliers conduct business in accordance with their Environmental Management System (EMS)

Reuse of the following materials within our Minor Works Framework:

- Cardboard
- Paper
- Plastics
- Treated wood

Public Sector Report on Compliance with Climate Change Duties 2024 Template

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.

Internal validation of gas and electricity data has been undertaken since the ending of CRC validation and this has involved continuous monthly and annual bill checking. This report is submitted for scrutiny and sign off by the Cabinet.

6b Peer validation process

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

Information is confirmed and collated from officers across the council by the sustainability team and is cross checked by the Service Lead - Performance, Policy and Community Planning before submission to Cabinet for further scrutiny and approval. The Council's Internal Audit team are also sighted on the work of the Sustainability Team.

6c External validation process

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

A waste data flow audit is undertaken by SEPA. No other external validation is undertaken on this report.

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.

n/a

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 McCardie
Role in the body:	Service Lead Performance, Community Planning and Sustainability
Date:	Date in format (dd/mm/yyyy)

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 : territorial emissions of carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) are provided, but 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/773c243d-2f1a-4d27-8b61-cdb93e5b10ff/emissions-of-carbon-dioxide-for-local-authority-areas>

Local Authority:(Please State)	South Ayrshire														
DESNZ Dataset:(full or sub-set)	Subset														
Source	Sector	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Units	Comments
DESNZ Sectors	Total Emissions	723.67	742.24	744.58	665.00	663.43	625.97	609.35	580.01	578.10	501.75	567.64	534.02	ktCO ₂ e	
	Industry and Commercial	232.51	242.25	256.16	217.75	216.71	193.32	179.08	159.66	165.76	148.77	178.00	168.45	ktCO ₂ e	
	Domestic	263.37	280.33	273.45	229.95	225.24	205.43	199.82	195.58	192.23	182.08	185.59	155.29	ktCO ₂ e	
	Transport total	227.80	219.67	214.97	217.29	221.48	227.23	230.45	224.77	220.11	170.89	204.05	209.27	ktCO ₂ e	
	Per Capita	6.84	7.05	7.12	6.31	6.35	5.98	5.82	5.51	5.47	4.80	5.40	5.11	ktCO ₂ e	
Other Sectors	Please select from drop down box														Please select from drop down box
	Please select from drop down box														Please select from drop down box
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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	
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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.

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

Factors by Category

Category					
Scope	Level 1	Level 2	Level 3	UOM	GHG Conversion Factor 2023 (kgCO2e/unit)
Scope 1	Bioenergy	Biogas	Biogas	kWh	0.00022
Scope 1	Bioenergy	Biogas	Biogas	tonnes	1.23595
Scope 1	Bioenergy	Biogas	Landfill gas	kWh	0.0002
Scope 1	Bioenergy	Biomass	Wood chips	kWh	0.01074
Scope 1	Bioenergy	Biomass	Wood chips	tonnes	40.58114
Scope 1	Bioenergy	Biomass	Wood pellets	kWh	0.01074
Scope 1	Bioenergy	Biomass	Wood pellets	tonnes	51.56192
Scope 1	Fuels	Liquid fuels	Aviation spirit	kWh	0.24382
Scope 1	Fuels	Liquid fuels	Aviation spirit	litres	2.33116
Scope 1	Fuels	Liquid fuels	Aviation turbine fuel	kWh	0.24758
Scope 1	Fuels	Liquid fuels	Aviation turbine fuel	litres	2.54269
Scope 1	Fuels	Liquid fuels	Burning oil (Kerosene)	kWh	0.24677
Scope 1	Fuels	Liquid fuels	Burning oil (Kerosene)	litres	2.54016
Scope 1	Fuels	Liquid fuels	Burning oil (Kerosene)	tonnes	3165.04181
Scope 1	Fuels	Solid fuels	Coal (industrial)	tonnes	2396.47994
Scope 1	Fuels	Liquid fuels	Diesel (100% mineral diesel)	litres	2.65937
Scope 1	Fuels	Liquid fuels	Diesel (average biofuel blend)	litres	2.51206
Scope 1	Fuels	Liquid fuels	Fuel oil	kWh	0.26813
Scope 1	Fuels	Liquid fuels	Fuel oil	litres	3.17492
Scope 1	Fuels	Liquid fuels	Fuel oil	tonnes	3228.89019
Scope 1	Fuels	Liquid fuels	Gas oil	kWh	0.2565
Scope 1	Fuels	Liquid fuels	Gas oil	litres	2.75541
Scope 1	Fuels	Liquid fuels	Gas oil	tonnes	3226.57859
Scope 1	Fuels	Gaseous fuels	LPG	kWh	0.21450
Scope 1	Fuels	Gaseous fuels	LPG	litres	1.55713
Scope 1	Fuels	Liquid fuels	Marine fuel oil	litres	3.10202
Scope 1	Fuels	Liquid fuels	Marine gas oil	litres	2.77139
Scope 1	Fuels	Gaseous fuels	Natural gas	kWh	0.18293
Scope 1	Fuels	Liquid fuels	Petrol (100% mineral petrol)	litres	2.34503
Scope 1	Fuels	Liquid fuels	Petrol (average biofuel blend)	litres	2.09747
Scope 1	Fuels	Gaseous fuels	Propane	kWh	0.2141
Scope 1	Fuels	Gaseous fuels	Propane	litres	1.54358
Scope 1	Fuels	Liquid fuels	Waste oils	kWh	0.25641
Scope 1	Fuels	Liquid fuels	Waste oils	litres	2.74924
Scope 1	Fuels	Liquid fuels	Waste oils	tonnes	3219.37916
Scope 1	Medical gas (Process)	Other products	Desflurane	kg	2540
Scope 1	Medical gas (Process)	Other products	Sevoflurane	kg	130
Scope 1	Medical gas (Process)	Other products	Isoflurane	kg	510
Scope 1	Medical gas (Process)	Other products	Anaesthetic Nitrous Oxide	kg	298
Scope 1	Refrigerants	Other products	HFC-134a	kg	1300
Scope 1	Refrigerants	Other products	HFC-32	kg	677
Scope 1	Refrigerants	Blends	R404A	kg	3943
Scope 1	Refrigerants	Blends	R407C	kg	1624
Scope 1	Refrigerants	Blends	R410A	kg	1924
Scope 1	Refrigerants	Blends	R422D	kg	2473
Scope 1	Refrigerants	Blends	R422E	kg	2350
Scope 1	Refrigerants	Blends	R423A	kg	2274
Scope 1	Refrigerants	Blends	R424A	kg	2212
Scope 1	Refrigerants	Blends	R425A	kg	1431
Scope 1	Refrigerants	Blends	R426A	kg	1371
Scope 1	Refrigerants	Blends	R427A	kg	2024
Scope 1	Refrigerants	Blends	R428A	kg	3417
Scope 1	Refrigerants	Blends	R429A	kg	13.8
Scope 1	Refrigerants	Blends	R430A	kg	106
Scope 1	Refrigerants	Blends	R431A	kg	40

Scope 1	Refrigerants	Blends	R432A	kg	1.8
Scope 1	Refrigerants	Blends	R433A	kg	0.64
Scope 1	Refrigerants	Blends	R433B	kg	0.16
Scope 1	Refrigerants	Blends	R433C	kg	0.55
Scope 1	Refrigerants	Blends	R434A	kg	3075
Scope 1	Refrigerants	Blends	R435A	kg	28.4
Scope 1	Refrigerants	Blends	R436A	kg	1.35
Scope 1	Refrigerants	Blends	R436B	kg	1.47
Scope 1	Refrigerants	Blends	R437A	kg	1639
Scope 1	Refrigerants	Blends	R438A	kg	2059
Scope 1	Refrigerants	Blends	R439A	kg	1828
Scope 1	Refrigerants	Blends	R440A	kg	156
Scope 1	Refrigerants	Blends	R441A	kg	0
Scope 1	Refrigerants	Blends	R442A	kg	1754
Scope 1	Refrigerants	Blends	R443A	kg	1
Scope 1	Refrigerants	Blends	R444A	kg	89
Scope 1	Refrigerants	Blends	R445A	kg	118
Scope 1	Refrigerants	Blends	R500	kg	7564
Scope 1	Refrigerants	Blends	R501	kg	3870
Scope 1	Refrigerants	Blends	R502	kg	4786
Scope 1	Refrigerants	Blends	R503	kg	13299
Scope 1	Refrigerants	Blends	R504	kg	4299
Scope 1	Refrigerants	Blends	R505	kg	7956
Scope 1	Refrigerants	Blends	R506	kg	3857
Scope 1	Refrigerants	Blends	R507A	kg	3985
Scope 1	Refrigerants	Blends	R508A	kg	11607
Scope 1	Refrigerants	Blends	R508B	kg	11698
Scope 1	Refrigerants	Blends	R509A	kg	5758
Scope 1	Refrigerants	Blends	R510A	kg	1.24
Scope 1	Refrigerants	Blends	R511A	kg	7
Scope 1	Refrigerants	Blends	R512A	kg	196
Scope 1	Refrigerants	Other products	R600 = butane	kg	0.006
Scope 1	Refrigerants	Other products	R600A = isobutane	kg	3
Scope 1	Refrigerants	Other products	R601 = pentane	kg	5
Scope 1	Refrigerants	Other products	R601A = isopentane	kg	5
Scope 2	Heat and steam	Heat and steam	District heat and steam	kWh	0.17965
Scope 2	Heat and steam	Heat and steam	Onsite heat and steam	kWh	0.17965
Scope 2	Electricity	Electricity generated	Electricity: UK	kWh	0.20707
Scope 2	Renewables	Renewable Elec Purchase Direct Supply	Renewable Elec Purchase Direct Supply	kWh	0
Scope 2	Renewables	Renewable Heat Purchase Direct Supply	Renewable Heat Purchase Direct Supply	kWh	0
Scope 2&3	Transport - car	Cars (by size)	Average business travel car - Battery Electric Vehicle	km	0.05480
Scope 2&3	Transport - car	Cars (by size)	Average business travel car - Battery Electric Vehicle	miles	0.08819
Scope 2&3	Transport - car	Cars (by size)	Average business travel car - Plug-in Hybrid Electric Vehicle	km	0.09392
Scope 2&3	Transport - car	Cars (by size)	Average business travel car - Plug-in Hybrid Electric Vehicle	miles	0.15113
Scope 3	Electricity	T&D- UK electricity	Transmission and distribution - Electricity: UK	kWh	0.01792
Scope 3	Heat and steam	Heat and steam	Transmission and distribution - district heat & steam, 5% loss	kWh	0.00945
Scope 3	Homeworking	Homeworking (office equipment)	Homeworking (office equipment + heating)	FTE Working Hours	0.33378
Scope 3	Hotel stay	Hotel stay	Hotel stay - UK	Room per night	10.4
Scope 3	Hotel stay	Hotel stay	Hotel stay - UK (London)	Room per night	11.5
Scope 3	Material use	Construction	Aggregates - Primary material production	tonnes	7.75138
Scope 3	Material use	Construction	Aggregates - Recycled source	tonnes	3.19491
Scope 3	Material use	Construction	Aggregates - Re-used	tonnes	2.21
Scope 3	Material use	Construction	Asphalt - Primary material production	tonnes	39.21249
Scope 3	Material use	Construction	Asphalt - Recycled source	tonnes	28.65491
Scope 3	Material use	Construction	Asphalt - Re-used	tonnes	1.73826
Scope 3	Material use	Construction	Average construction - Primary material production	tonnes	80.21282
Scope 3	Material use	Electrical items	Batteries - Alkaline - Primary material production	tonnes	4633.47826
Scope 3	Material use	Electrical items	Batteries - Li ion - Primary material production	tonnes	6308
Scope 3	Material use	Electrical items	Batteries - NiMh - Primary material production	tonnes	28380
Scope 3	Material use	Construction	Bricks - Primary material production	tonnes	241.75138
Scope 3	Material use	Other	Clothing - Primary material production	tonnes	22310
Scope 3	Material use	Other	Clothing - Re-used	tonnes	152.25
Scope 3	Material use	Organic	Compost derived from food and garden waste - Primary material production	tonnes	114.83405

Scope 3	Material use	Organic	Compost derived from garden waste - Primary material production	tonnes	112.01742
Scope 3	Material use	Construction	Concrete - Primary material production	tonnes	131.75138
Scope 3	Material use	Construction	Concrete - Recycled source	tonnes	3.19491
Scope 3	Material use	Electrical items	Electrical items - fridges and freezers - Primary material production	tonnes	4363.33333
Scope 3	Material use	Electrical items	Electrical items - IT - Primary material production	tonnes	24865.47556
Scope 3	Material use	Electrical items	Electrical items - large - Primary material production	tonnes	3267
Scope 3	Material use	Electrical items	Electrical items - small - Primary material production	tonnes	5647.94563
Scope 3	Material use	Other	Food and drink - Primary material production	tonnes	3701.40359
Scope 3	Material use	Other	Glass - Primary material production	tonnes	1402.76667
Scope 3	Material use	Other	Glass - Recycled source	tonnes	823.18954
Scope 3	Material use	Construction	Insulation - Primary material production	tonnes	1861.75138
Scope 3	Material use	Construction	Insulation - Recycled source	tonnes	1852.08125
Scope 3	Material use	Metal	Metal: aluminium cans and foil (excl. forming) - Primary material production	tonnes	9108.72731
Scope 3	Material use	Metal	Metal: aluminium cans and foil (excl. forming) - Recycled source	tonnes	990.4781
Scope 3	Material use	Metal	Metal: mixed cans - Primary material production	tonnes	5254.64731
Scope 3	Material use	Metal	Metal: mixed cans - Recycled source	tonnes	1461.67759
Scope 3	Material use	Metal	Metal: scrap metal - Primary material production	tonnes	3669.43615
Scope 3	Material use	Metal	Metal: scrap metal - Recycled source	tonnes	1620.27606
Scope 3	Material use	Metal	Metal: steel cans - Primary material production	tonnes	3086.72731
Scope 3	Material use	Metal	Metal: steel cans - Recycled source	tonnes	1726.72731
Scope 3	Material use	Construction	Metals - Primary material production	tonnes	4005.13777
Scope 3	Material use	Construction	Metals - Recycled source	tonnes	1558.94894
Scope 3	Material use	Construction	Mineral oil - Primary material production	tonnes	1401
Scope 3	Material use	Construction	Mineral oil - Recycled source	tonnes	676
Scope 3	Material use	Paper	Paper and board: board - Primary material production	tonnes	801.52177
Scope 3	Material use	Paper	Paper and board: board - Recycled source	tonnes	699.88184
Scope 3	Material use	Paper	Paper and board: mixed - Primary material production	tonnes	868.06994
Scope 3	Material use	Paper	Paper and board: mixed - Recycled source	tonnes	718.56937
Scope 3	Material use	Paper	Paper and board: paper - Primary material production	tonnes	910.4781
Scope 3	Material use	Paper	Paper and board: paper - Recycled source	tonnes	730.4781
Scope 3	Material use	Construction	Plasterboard - Primary material production	tonnes	120.05
Scope 3	Material use	Construction	Plasterboard - Recycled source	tonnes	32.17
Scope 3	Material use	Plastic	Plastics: average plastic film - Primary material production	tonnes	2560.25566
Scope 3	Material use	Plastic	Plastics: average plastic film - Recycled source	tonnes	1890.70135
Scope 3	Material use	Plastic	Plastics: average plastic rigid - Primary material production	tonnes	3263.92202
Scope 3	Material use	Plastic	Plastics: average plastic rigid - Recycled source	tonnes	2744.09248
Scope 3	Material use	Plastic	Plastics: average plastics - Primary material production	tonnes	3102.44851
Scope 3	Material use	Plastic	Plastics: average plastics - Recycled source	tonnes	2322.22425
Scope 3	Material use	Plastic	Plastics: HDPE (incl. forming) - Primary material production	tonnes	3255.9298
Scope 3	Material use	Plastic	Plastics: HDPE (incl. forming) - Recycled source	tonnes	2346.68907
Scope 3	Material use	Plastic	Plastics: LDPE and LLDPE (incl. forming) - Primary material production	tonnes	2586.72731
Scope 3	Material use	Plastic	Plastics: LDPE and LLDPE (incl. forming) - Recycled source	tonnes	1793.29541
Scope 3	Material use	Plastic	Plastics: PET (incl. forming) - Primary material production	tonnes	4018.48341
Scope 3	Material use	Plastic	Plastics: PET (incl. forming) - Recycled source	tonnes	3121.34429
Scope 3	Material use	Plastic	Plastics: PP (incl. forming) - Primary material production	tonnes	3090.8179
Scope 3	Material use	Plastic	Plastics: PP (incl. forming) - Recycled source	tonnes	2537.386
Scope 3	Material use	Plastic	Plastics: PS (incl. forming) - Primary material production	tonnes	3764.03981
Scope 3	Material use	Plastic	Plastics: PS (incl. forming) - Recycled source	tonnes	3187.08199
Scope 3	Material use	Plastic	Plastics: PVC (incl. forming) - Primary material production	tonnes	3399.17507
Scope 3	Material use	Plastic	Plastics: PVC (incl. forming) - Recycled source	tonnes	2485.74317
Scope 3	Material use	Construction	Soils - Recycled source	tonnes	0.98491
Scope 3	Material use	Construction	Tyres - Primary material production	tonnes	3335.5719
Scope 3	Material use	Construction	Tyres - Re-used	tonnes	731.21789
Scope 3	Material use	Construction	Wood - Primary material production	tonnes	312.61178
Scope 3	Material use	Construction	Wood - Recycled source	tonnes	112.96968
Scope 3	Material use	Construction	Wood - Re-used	tonnes	38.54288
Scope 3	Transport - car	Cars (by size)	Average car - Diesel	km	0.16983
Scope 3	Transport - car	Cars (by size)	Average car - Diesel	miles	0.27332
Scope 3	Transport - car	Cars (by size)	Average car - Hybrid	km	0.11898
Scope 3	Transport - car	Cars (by size)	Average car - Hybrid	miles	0.19147
Scope 3	Transport - car	Cars (by size)	Average car - Petrol	km	0.16391
Scope 3	Transport - car	Cars (by size)	Average car - Petrol	miles	0.26379
Scope 3	Transport - car	Cars (by size)	Average car - Unknown	km	0.16664

Scope 3	Transport - car	Cars (by size)	Average car - Unknown	miles	0.26817
Scope 1	Transport - car	Cars (by size)	Average fleet car - Battery Electric Vehicle	km	0
Scope 1	Transport - car	Cars (by size)	Average fleet car - Battery Electric Vehicle	miles	0
Scope 1	Transport - car	Cars (by size)	Average fleet car - Plug-in Hybrid Electric Vehicle	km	0.06588
Scope 1	Transport - car	Cars (by size)	Average fleet car - Plug-in Hybrid Electric Vehicle	miles	0.10601
Scope 2&3	Transport - car	Cars (by size)	Large business travel car - Battery Electric Vehicle	km	0.05797
Scope 2&3	Transport - car	Cars (by size)	Large business travel car - Battery Electric Vehicle	miles	0.09330
Scope 2&3	Transport - car	Cars (by size)	Large business travel car - Plug-in Hybrid Electric Vehicle	km	0.10158
Scope 2&3	Transport - car	Cars (by size)	Large business travel car - Plug-in Hybrid Electric Vehicle	miles	0.16349
Scope 3	Transport - car	Cars (by size)	Large car - Diesel	km	0.20859
Scope 3	Transport - car	Cars (by size)	Large car - Diesel	miles	0.33570
Scope 3	Transport - car	Cars (by size)	Large car - Hybrid	km	0.15244
Scope 3	Transport - car	Cars (by size)	Large car - Hybrid	miles	0.24530
Scope 3	Transport - car	Cars (by size)	Large car - Petrol	km	0.27224
Scope 3	Transport - car	Cars (by size)	Large car - Petrol	miles	0.43812
Scope 3	Transport - car	Cars (by size)	Large car - Unknown	km	0.22612
Scope 3	Transport - car	Cars (by size)	Large car - Unknown	miles	0.36389
Scope 1	Transport - car	Cars (by size)	Large fleet car - Battery Electric Vehicle	km	0
Scope 1	Transport - car	Cars (by size)	Large fleet car - Battery Electric Vehicle	miles	0
Scope 1	Transport - car	Cars (by size)	Large fleet car - Plug-in Hybrid Electric Vehicle	km	0.07082
Scope 1	Transport - car	Cars (by size)	Large fleet car - Plug-in Hybrid Electric Vehicle	miles	0.11397
Scope 2&3	Transport - car	Cars (by size)	Medium business travel car - Battery Electric Vehicle	km	0.05257
Scope 2&3	Transport - car	Cars (by size)	Medium business travel car - Battery Electric Vehicle	miles	0.08458
Scope 2&3	Transport - car	Cars (by size)	Medium business travel car - Plug-in Hybrid Electric Vehicle	km	0.08501
Scope 2&3	Transport - car	Cars (by size)	Medium business travel car - Plug-in Hybrid Electric Vehicle	miles	0.13680
Scope 3	Transport - car	Cars (by size)	Medium car - Diesel	km	0.16716
Scope 3	Transport - car	Cars (by size)	Medium car - Diesel	miles	0.26902
Scope 3	Transport - car	Cars (by size)	Medium car - Hybrid	km	0.10904
Scope 3	Transport - car	Cars (by size)	Medium car - Hybrid	miles	0.17549
Scope 3	Transport - car	Cars (by size)	Medium car - Petrol	km	0.17819
Scope 3	Transport - car	Cars (by size)	Medium car - Petrol	miles	0.28676
Scope 3	Transport - car	Cars (by size)	Medium car - Unknown	km	0.17246
Scope 3	Transport - car	Cars (by size)	Medium car - Unknown	miles	0.27754
Scope 1	Transport - car	Cars (by size)	Medium fleet car - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - car	Cars (by size)	Medium fleet car - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - car	Cars (by size)	Medium fleet car - Plug-in Hybrid Electric Vehicle	km	0.06144
Scope 1	Transport - car	Cars (by size)	Medium fleet car - Plug-in Hybrid Electric Vehicle	miles	0.09887
Scope 3	Transport - car	Motorbike	Motorbike - Average	km	0.11367
Scope 3	Transport - car	Motorbike	Motorbike - Average	miles	0.18294
Scope 2&3	Transport - car	Cars (by size)	Small business travel car - Battery Electric Vehicle	km	0.04823
Scope 2&3	Transport - car	Cars (by size)	Small business travel car - Battery Electric Vehicle	miles	0.07763
Scope 2&3	Transport - car	Cars (by size)	Small business travel car - Plug-in Hybrid Electric Vehicle	km	0.05402
Scope 2&3	Transport - car	Cars (by size)	Small business travel car - Plug-in Hybrid Electric Vehicle	miles	0.08694
Scope 3	Transport - car	Cars (by size)	Small car - Diesel	km	0.13931
Scope 3	Transport - car	Cars (by size)	Small car - Diesel	miles	0.22420
Scope 3	Transport - car	Cars (by size)	Small car - Hybrid	km	0.10150
Scope 3	Transport - car	Cars (by size)	Small car - Hybrid	miles	0.16336
Scope 3	Transport - car	Cars (by size)	Small car - Petrol	km	0.14080
Scope 3	Transport - car	Cars (by size)	Small car - Petrol	miles	0.22660
Scope 3	Transport - car	Cars (by size)	Small car - Unknown	km	0.14037
Scope 3	Transport - car	Cars (by size)	Small car - Unknown	miles	0.22591
Scope 1	Transport - car	Cars (by size)	Small fleet car - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - car	Cars (by size)	Small fleet car - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - car	Cars (by size)	Small fleet car - Plug-in Hybrid Electric Vehicle	km	0.02163
Scope 1	Transport - car	Cars (by size)	Small fleet car - Plug-in Hybrid Electric Vehicle	miles	0.03481
Scope 3	Transport - public	Bus	Average local bus	passenger.km	0.10215
Scope 3	Transport - public	Taxis	Black cab	km	0.30604
Scope 3	Transport - public	Taxis	Black cab	passenger.km	0.20402
Scope 3	Transport - public	Bus	Coach	passenger.km	0.02718
Scope 3	Transport - public	Ferry	Ferry - Average (all passenger)	passenger.km	0.11270
Scope 3	Transport - public	Ferry	Ferry - Car passenger	passenger.km	0.12933
Scope 3	Transport - public	Ferry	Ferry - Foot passenger	passenger.km	0.01871
Scope 3	Transport - public	Flights	Flights - Domestic, to/from UK - Average passenger	passenger.km	0.27258

Scope 3	Transport - public	Flights	Flights - International, to/from non-UK - Average passenger	passenger.km	0.17580
Scope 3	Transport - public	Flights	Flights - International, to/from non-UK - Business class	passenger.km	0.39044
Scope 3	Transport - public	Flights	Flights - International, to/from non-UK - Economy class	passenger.km	0.13464
Scope 3	Transport - public	Flights	Flights - International, to/from non-UK - First class	passenger.km	0.53854
Scope 3	Transport - public	Flights	Flights - International, to/from non-UK - Premium economy class	passenger.km	0.21542
Scope 3	Transport - public	Flights	Flights - Long-haul, to/from UK - Average passenger	passenger.km	0.26128
Scope 3	Transport - public	Flights	Flights - Long-haul, to/from UK - Business class	passenger.km	0.58029
Scope 3	Transport - public	Flights	Flights - Long-haul, to/from UK - Economy class	passenger.km	0.20011
Scope 3	Transport - public	Flights	Flights - Long-haul, to/from UK - First class	passenger.km	0.80040
Scope 3	Transport - public	Flights	Flights - Long-haul, to/from UK - Premium economy class	passenger.km	0.32016
Scope 3	Transport - public	Flights	Flights - Short-haul, to/from UK - Average passenger	passenger.km	0.18592
Scope 3	Transport - public	Flights	Flights - Short-haul, to/from UK - Business class	passenger.km	0.27430
Scope 3	Transport - public	Flights	Flights - Short-haul, to/from UK - Economy class	passenger.km	0.18287
Scope 3	Transport - public	Rail	International rail	passenger.km	0.00446
Scope 3	Transport - public	Rail	Light rail and tram	passenger.km	0.02860
Scope 3	Transport - public	Bus	Local bus (not London)	passenger.km	0.11836
Scope 3	Transport - public	Bus	Local London bus	passenger.km	0.07832
Scope 3	Transport - public	Rail	London Underground	passenger.km	0.02780
Scope 3	Transport - public	Rail	National rail	passenger.km	0.03546
Scope 3	Transport - public	Taxis	Regular taxi	km	0.20806
Scope 3	Transport - public	Taxis	Regular taxi	passenger.km	0.14861
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	km	0.07346
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	miles	0.11824
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	km	0.03850
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	miles	0.06197
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	km	0.05932
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	miles	0.09547
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	km	0.08967
Scope 2&3	Transport - van/HGV	Vans	Business Travel Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	miles	0.14430
Scope 1	Transport - van/HGV	Vans	Fleet Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	km	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	miles	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	km	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	miles	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	km	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	miles	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	km	0
Scope 1	Transport - van/HGV	Vans	Fleet Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	miles	0
Scope 1	Transport - van/HGV	HGV (all diesel)	HGV (all diesel) - All artics - Average laden	km	0.90644
Scope 1	Transport - van/HGV	HGV (all diesel)	HGV (all diesel) - All artics - Average laden	miles	1.45877
Scope 1	Transport - van/HGV	HGV (all diesel)	HGV (all diesel) - All HGVs - Average laden	km	0.87205
Scope 1	Transport - van/HGV	HGV (all diesel)	HGV (all diesel) - All HGVs - Average laden	miles	1.40341
Scope 1	Transport - van/HGV	HGV (all diesel)	HGV (all diesel) - All rigidis - Average laden	km	0.82313
Scope 1	Transport - van/HGV	HGV (all diesel)	HGV (all diesel) - All rigidis - Average laden	miles	1.32470
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel)	HGVs refrigerated (all diesel) - All artics - Average laden	km	1.04867
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel)	HGVs refrigerated (all diesel) - All artics - Average laden	miles	1.68766
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel)	HGVs refrigerated (all diesel) - All HGVs - Average laden	km	1.02098
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel)	HGVs refrigerated (all diesel) - All HGVs - Average laden	miles	1.64310
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel)	HGVs refrigerated (all diesel) - All rigidis - Average laden	km	0.98025
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel)	HGVs refrigerated (all diesel) - All rigidis - Average laden	miles	1.57754
Scope 1	Transport - van/HGV	Vans	Vans - Average (up to 3.5 tonnes) - Diesel	km	0.23128
Scope 1	Transport - van/HGV	Vans	Vans - Average (up to 3.5 tonnes) - Diesel	miles	0.37224
Scope 1	Transport - van/HGV	Vans	Vans - Average (up to 3.5 tonnes) - Petrol	km	0.20132
Scope 1	Transport - van/HGV	Vans	Vans - Average (up to 3.5 tonnes) - Petrol	miles	0.32400
Scope 1	Transport - van/HGV	Vans	Vans - Average (up to 3.5 tonnes) - Unknown	km	0.23037
Scope 1	Transport - van/HGV	Vans	Vans - Average (up to 3.5 tonnes) - Unknown	miles	0.37075
Scope 1	Transport - van/HGV	Vans	Vans - Class I (up to 1.305 tonnes) - Diesel	km	0.14212
Scope 1	Transport - van/HGV	Vans	Vans - Class I (up to 1.305 tonnes) - Diesel	miles	0.22875
Scope 1	Transport - van/HGV	Vans	Vans - Class I (up to 1.305 tonnes) - Petrol	km	0.18217
Scope 1	Transport - van/HGV	Vans	Vans - Class I (up to 1.305 tonnes) - Petrol	miles	0.29318
Scope 1	Transport - van/HGV	Vans	Vans - Class II (1.305 to 1.74 tonnes) - Diesel	km	0.17405
Scope 1	Transport - van/HGV	Vans	Vans - Class II (1.305 to 1.74 tonnes) - Diesel	miles	0.28013
Scope 1	Transport - van/HGV	Vans	Vans - Class II (1.305 to 1.74 tonnes) - Petrol	km	0.19594
Scope 1	Transport - van/HGV	Vans	Vans - Class II (1.305 to 1.74 tonnes) - Petrol	miles	0.31534

Scope 1	Transport - van/HGV	Vans	Vans - Class III (1.74 to 3.5 tonnes) - Diesel	km	0.25346
Scope 1	Transport - van/HGV	Vans	Vans - Class III (1.74 to 3.5 tonnes) - Diesel	miles	0.40792
Scope 1	Transport - van/HGV	Vans	Vans - Class III (1.74 to 3.5 tonnes) - Petrol	km	0.31444
Scope 1	Transport - van/HGV	Vans	Vans - Class III (1.74 to 3.5 tonnes) - Petrol	miles	0.50605
Scope 3	Waste	Construction	Aggregates - Landfill	tonnes	1.23401
Scope 3	Waste	Construction	Aggregates - Recycled	tonnes	0.98491
Scope 3	Waste	Construction	Asbestos - Landfill	tonnes	5.91332
Scope 3	Waste	Construction	Asphalt - Landfill	tonnes	1.23401
Scope 3	Waste	Construction	Asphalt - Recycled	tonnes	0.98491
Scope 3	Waste	Construction	Average construction - Combustion	tonnes	21.28081
Scope 3	Waste	Construction	Average construction - Recycled	tonnes	0.98491
Scope 3	Waste	Electrical items	Batteries - Landfill	tonnes	8.88413
Scope 3	Waste	Electrical items	Batteries - Recycled	tonnes	21.28081
Scope 3	Waste	Other	Books - Combustion	tonnes	21.07310
Scope 3	Waste	Other	Books - Landfill	tonnes	1164.09963
Scope 3	Waste	Other	Books - Recycled	tonnes	21.0731
Scope 3	Waste	Construction	Bricks - Landfill	tonnes	1.23401
Scope 3	Waste	Clinical	Clinical Waste - Orange Stream	tonnes	273
Scope 3	Waste	Clinical	Clinical Waste - Other	tonnes	1000
Scope 3	Waste	Clinical	Clinical Waste - Red Stream	tonnes	1000
Scope 3	Waste	Clinical	Clinical Waste - Yellow Stream	tonnes	297
Scope 3	Waste	Other	Clothing - Combustion	tonnes	21.28081
Scope 3	Waste	Other	Clothing - Landfill	tonnes	496.68331
Scope 3	Waste	Other	Clothing - Recycled	tonnes	21.28081
Scope 3	Waste	Refuse	Commercial and industrial waste - Combustion	tonnes	21.28081
Scope 3	Waste	Refuse	Commercial and industrial waste - Landfill	tonnes	520.33474
Scope 3	Waste	Construction	Concrete - Landfill	tonnes	1.23401
Scope 3	Waste	Construction	Concrete - Recycled	tonnes	0.98491
Scope 3	Waste	Other	Glass - Combustion	tonnes	21.28081
Scope 3	Waste	Other	Glass - Landfill	tonnes	8.88413
Scope 3	Waste	Other	Glass - Recycled	tonnes	21.28081
Scope 3	Waste	Refuse	Household/Municipal/Domestic waste - Combustion	tonnes	21.28081
Scope 3	Waste	Refuse	Household/Municipal/Domestic waste - Landfill	tonnes	497.04471
Scope 3	Waste	Refuse	Mixed dry recyclates - Recycled	tonnes	21.28081
Scope 3	Waste	Construction	Insulation - Landfill	tonnes	1.23401
Scope 3	Waste	Construction	Insulation - Recycled	tonnes	0.98491
Scope 3	Waste	Metal	Metal: aluminium cans and foil (excl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Metal	Metal: aluminium cans and foil (excl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Metal	Metal: aluminium cans and foil (excl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Metal	Metal: mixed cans - Combustion	tonnes	21.28081
Scope 3	Waste	Metal	Metal: mixed cans - Landfill	tonnes	8.88413
Scope 3	Waste	Metal	Metal: mixed cans - Recycled	tonnes	21.28081
Scope 3	Waste	Metal	Metal: scrap metal - Combustion	tonnes	21.28081
Scope 3	Waste	Metal	Metal: scrap metal - Landfill	tonnes	8.88413
Scope 3	Waste	Metal	Metal: scrap metal - Recycled	tonnes	21.28081
Scope 3	Waste	Metal	Metal: steel cans - Combustion	tonnes	21.28081
Scope 3	Waste	Metal	Metal: steel cans - Landfill	tonnes	8.88413
Scope 3	Waste	Metal	Metal: steel cans - Recycled	tonnes	21.28081
Scope 3	Waste	Construction	Metals - Landfill	tonnes	1.26435
Scope 3	Waste	Construction	Metals - Recycled	tonnes	0.98491
Scope 3	Waste	Construction	Mineral oil - Combustion	tonnes	21.28081
Scope 3	Waste	Construction	Mineral oil - Recycled	tonnes	21.28081
Scope 3	Waste	Refuse	Organic: food and drink waste - Anaerobic digestion	tonnes	8.91242
Scope 3	Waste	Refuse	Organic: food and drink waste - Combustion	tonnes	21.28081
Scope 3	Waste	Refuse	Organic: food and drink waste - Composting	tonnes	8.91242
Scope 3	Waste	Refuse	Organic: food and drink waste - Landfill	tonnes	700.20988
Scope 3	Waste	Refuse	Organic: garden waste - Anaerobic digestion	tonnes	8.91242
Scope 3	Waste	Refuse	Organic: garden waste - Combustion	tonnes	21.28081
Scope 3	Waste	Refuse	Organic: garden waste - Composting	tonnes	8.91242
Scope 3	Waste	Refuse	Organic: garden waste - Landfill	tonnes	646.60659
Scope 3	Waste	Refuse	Organic: mixed food and garden waste - Anaerobic digestion	tonnes	8.91242
Scope 3	Waste	Refuse	Organic: mixed food and garden waste - Combustion	tonnes	21.28081
Scope 3	Waste	Refuse	Organic: mixed food and garden waste - Composting	tonnes	8.91242

Scope 3	Waste	Refuse	Organic: mixed food and garden waste - Landfill	tonnes	655.98717
Scope 3	Waste	Paper	Paper and board: board - Combustion	tonnes	21.28081
Scope 3	Waste	Paper	Paper and board: board - Composting	tonnes	8.91242
Scope 3	Waste	Paper	Paper and board: board - Landfill	tonnes	1164.39042
Scope 3	Waste	Paper	Paper and board: board - Recycled	tonnes	21.28081
Scope 3	Waste	Paper	Paper and board: mixed - Combustion	tonnes	21.28081
Scope 3	Waste	Paper	Paper and board: mixed - Composting	tonnes	8.91242
Scope 3	Waste	Paper	Paper and board: mixed - Landfill	tonnes	1164.39042
Scope 3	Waste	Paper	Paper and board: mixed - Recycled	tonnes	21.28081
Scope 3	Waste	Paper	Paper and board: paper - Combustion	tonnes	21.28081
Scope 3	Waste	Paper	Paper and board: paper - Composting	tonnes	8.91242
Scope 3	Waste	Paper	Paper and board: paper - Landfill	tonnes	1164.39042
Scope 3	Waste	Paper	Paper and board: paper - Recycled	tonnes	21.28081
Scope 3	Waste	Construction	Plasterboard - Landfill	tonnes	71.95000
Scope 3	Waste	Construction	Plasterboard - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: average plastic film - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: average plastic film - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: average plastic film - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: average plastic rigid - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: average plastic rigid - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: average plastic rigid - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: average plastics - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: average plastics - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: average plastics - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: HDPE (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: HDPE (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: HDPE (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: LDPE and LLDPE (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: LDPE and LLDPE (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: LDPE and LLDPE (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PET (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PET (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: PET (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PP (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PP (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: PP (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PS (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PS (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: PS (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PVC (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastic	Plastics: PVC (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastic	Plastics: PVC (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Construction	Soils - Landfill	tonnes	19.51734
Scope 3	Waste	Construction	Soils - Recycled	tonnes	0.98491
Scope 3	Waste	Construction	Tyres - Recycled	tonnes	21.28081
Scope 3	Waste	Electrical items	WEEE - fridges and freezers - Landfill	tonnes	8.88413
Scope 3	Waste	Electrical items	WEEE - large - Combustion	tonnes	21.28081
Scope 3	Waste	Electrical items	WEEE - large - Landfill	tonnes	8.88413
Scope 3	Waste	Electrical items	WEEE - mixed - Combustion	tonnes	21.28081
Scope 3	Waste	Electrical items	WEEE - mixed - Recycled	tonnes	21.28081
Scope 3	Waste	Electrical items	WEEE - mixed - Landfill	tonnes	8.88413
Scope 3	Waste	Electrical items	WEEE - small - Combustion	tonnes	21.28081
Scope 3	Waste	Electrical items	WEEE - small - Landfill	tonnes	8.88413
Scope 3	Waste	Construction	Wood - Combustion	tonnes	21.28081
Scope 3	Waste	Construction	Wood - Composting	tonnes	8.91242
Scope 3	Waste	Construction	Wood - Landfill	tonnes	925.2445
Scope 3	Waste	Construction	Wood - Recycled	tonnes	21.28081
Scope 3	Water	Water supply	Water supply	cubic metres	0.1
Scope 3	Water	Water supply	Water supply	million litres	110.0
Scope 3	Water	Water supply	Water treatment	cubic metres	0.19
Scope 3	Water	Water supply	Water treatment	million litres	190

END					
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South Ayrshire Council Public Bodies Climate Change Duties Annual Report 2023-2024

Analysis of Report Findings

1. Analysis

1.1 Our within boundary emissions as a Council have dropped by 6.5% since 2022/23 (the previous financial year), 24.8% since 2019/20 (the pre pandemic year), and 47.1% since 2014/15 (our baseline year from which our target is measured). The Council is committed to making a 75% reduction of these in boundary emissions by 2030. If the reductions achieved in the past calendar year, or indeed since the original baseline year, are sustained in percentage terms over the coming years, the Council will achieve this target. There are however a number of potential risks that need to be addressed if this is to be achieved.

1.2 Our buildings emissions have risen over the past year:

- The Council used 13% more electricity in buildings in 2022/23 than the previous year. This equated to a 20% increase in emissions from electricity used in buildings as the carbon intensity of the grid increased in relation to electricity production in the rest of the UK becoming more carbon intensive.
- While natural gas remains the biggest single emissions source in our emissions inventory by a long way (accounting for 39% of our recorded emissions, the next nearest category being 29% for electricity used in buildings), gas used and gas emissions both reduced by almost 9% in 2023/24 in comparison to the previous year.
- Electricity used in street lighting reduced by only 4% in 2023/24 in comparison to the previous year, and emissions actually rose by 3% in comparison to the previous year. This however followed a significant 15% reduction in energy used in the previous year due to the installation of new technologies, and an overall reduction in emissions due to street lighting and traffic signs of 50% since 2019/20. This was achieved with no reduction in level of service, if anything an increase, and is also delivering an operational saving in the cost of ongoing electricity to power these installations.
- It should be noted that much of our current progress is as a result of decarbonisation of the electricity grid and we have ensured we make the most of this in terms of working towards our emissions reduction targets by moving away from gas which cannot significantly be decarbonised in the same way and sits at a relatively constant emissions factor. In our baseline year the emissions factor for grid electricity was 0.5 kg CO₂e/KWh, where are today this sits at 0.2 kg CO₂e/KWh. We have also been increasingly meeting our own electricity needs with onsite renewable technologies.
- To sustain our emissions reductions in this area next steps involve reduction in the size of the Council estate, investment in improvement in

the energy efficiency of our building stock and the day to day management of our heat and power use in our buildings. To support these needs the Council has an internal Net Zero Board and is working on [Transforming the Estate](#), as well as their being potential for our buildings to be picked up through the recently adopted Local Heat and Energy Efficiency Strategy as potential anchor loads for schemes which would change the way we utilise our estate to deliver wider benefits. The implementation of the Council's own Sustainable Design Guidance currently in development by Professional Design Services must also play a significant part in improving the sustainability of our buildings going forward across many outcome areas, including emissions reduction and as well as other aspects of our climate change duties. As the figures from this year show, implementation of the design guidance for all future projects will be essential if the required pace of change is to be achieved to meet future emissions reduction targets. This guidance will also be shared with our partner organisations as an example of best practice through the Community Planning Partnership and there has already been interest in the guidance from other Scottish Local Authorities, showing South Ayrshire Council has a significant contribution to make in this area.

1.3 Over the past year our emissions from grey fleet have reduced, but our emissions from fleet have increased 9.5% on the previous year.

- In comparison to the previous year we have seen a decrease in the miles driven by grey fleet, otherwise known as mileage, identified through employee expense claims, which is down by 17%.
- In comparison to the previous year we have however seen the diesel used by our fleet through our depots increase by 12% and petrol bought through outside garages increased by 26%.
- Diesel bought through outside garages dropped by 79%, however the overall increase in diesel used by fleet is still 10% when both categories are considered as much less fuel is used from outside garages in comparison to depots.
- As a result overall emissions from fleet are up by 9.5% on the previous year.
- This indicates that our road kms driven have continued to rise contrary to our Council policy in this regard, and that further to that it is not being offset enough to reverse the rise by the current level of transition to electric small vehicles.
- Not only are our combined carbon emissions from travel and transport up on the previous financial year, 2022-23, they currently remain up on our pre pandemic figures from financial year 2019-20 as well, showing that the increase is more than just a post pandemic return to business as usual and needs to urgently be addressed.
- This demonstrates a clear need to ensure (1) our adopted hierarchy of travel is given due regard in all we do as an organisation, (2) that we take steps to reduce our road kms driven in the delivery of our services wherever practical and (3) that we take forward our Ultra Low Emission Vehicle

(ULEV) transition actions as a matter of urgency, ensuring that each vehicle we use as an organisation has the lowest emissions possible for the tasks the vehicle is required for.

- The fleet team last year set out to Members [Item 7 - REP 20230418 SPPP Fleet Strategy.pdf \(south-ayrshire.gov.uk\)](#) some of the cost and resource challenges with regard to (3) transition to ULEV vehicles. However (1) hierarchy of travel and (2) road kms driven both offer cost savings as well as carbon savings through management interventions.
- The Council is reviewing the current car fleet operations. A project was established on the corporate change programme last year which is reviewing alternative delivery models before identifying proposals for a more effective method of managing car fleet. Principle objectives are to reduce external hires and increase the efficiency of existing fleet, while simultaneously reducing fuel use, carbon emissions and fleet costs.

1.4 In summary, our overall buildings emissions have risen by 1 to 2% as an organisation over the past year, but our transport emissions have increased the most, with fleet emissions up 9.5% on the previous year and taking up an increasing share of our overall emissions. This means travel and transport emissions become increasingly fundamental to our ability to deliver on our organisational carbon reduction target for 2030 and our subsequent organisational net zero target. Building energy and transport emissions are the critical areas where we require to make reductions in our emissions if we are to continue to achieve the pace of change required to meet our existing targets for 2030 and 2045.

2. ESS Investigation Outcomes and Next Steps

2.1 ESS (Environmental Standards Scotland) launched an investigation in May 2022 into the effectiveness of the systems in place to support local authorities in their climate change duties. Their final report was laid in Parliament on 6 December 2023 containing 5 recommendations to increase the pace of change which are now translating into new requirements for local authorities.

2.2 A Climate Change Strategy Template is being introduced for local authorities which sets out what it is expected that local authorities will cover as a minimum in their strategy in complying with their duties. Our next Sustainable Development and Climate Change Strategy is in development and will now follow this template. Among other things the template makes clear that there is an expectation on local authorities to have a range of staged and sectoral targets to ensure the pace of change towards net zero by 2045, climate resilience and sustainability. The internal consultation process for our next strategy will work with services to establish these targets and set out associated actions for inclusion and delivery through the new strategy.

2.3 While our measurable targets to date have been focused on our organisational boundary emissions as defined in 2016 using the 2014/15 financial year data, and our reporting has been consistently published for this set of data since then, we are already also required to report on areas outwith this, for example Home Working emissions. In future we will be required to account for more of our emissions and to increase the pace of change in relation to these areas. This will initially involve an Amendment Order to mandate accounting for commuting and business travel in more detail than we currently report, and beyond that standard methodologies are also to be prepared for emissions related to procurement, capital goods, leased

assets and investments. This year we have already included in our annual reporting the emissions from the fuel used by planes during the Councils 2023 Air Show as provided by Air Show partner Sky Lab, which equated to 151 Tonnes CO₂e or just over 1% of our in boundary emissions total for the year. In future we aspire to measure and account for more of the emissions generated by the annual air show event, for example those related to visitor travel and services provided on site, and work to reduce these.

- 2.4 Strategically, the implementation of the Integrated Impact Assessment will help to highlight these areas and others which are necessary for achievement of our climate change duties and targets, both organisationally and area wide going forward. It is the case that to achieve the pace of change required all decisions being taken by the organisation require to take us in the right direction towards the fulfilment of our climate change duties and achievement of our climate change targets as well as taking forward the delivery of other outcomes and priorities. The impact assessment process will help us to do this.
- 2.5 It should be noted that the impact assessment approach includes a wide range of topics relevant to the fulfilment and reporting of our climate change duties. It is hoped accordingly that the implementation of the new assessment process and pursuit of associated mitigations will accelerate the pace of change, not only for emissions reduction but also for other aspects which we have to address in our legal duties and reporting. These include adaptation to a changing climate locally and nationally, tackling the nature emergency, delivery of a just transition to a low carbon economy, sustainable procurement, sustainable place making and our opportunities for leadership and influence in relation our regional area wide emissions.