

**South Ayrshire Council**

**Report by Director of Strategic Change and Communities  
to Cabinet  
of 28 November 2023**

---

**Subject: South Ayrshire Council Public Bodies Climate Change  
Duties Annual Report 2022-23**

---

**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 2022-23

**2. Recommendation**

**2.1 It is recommended that the Cabinet:**

**2.1.1 approves the annual report attached in Appendix 1 and agrees this annual report is submitted as required by officers to the Scottish Government by 30 November 2023; and**

**2.1.2 notes both the progress and challenges faced by the Council in fulfilling its duties and the reductions in the emissions targets summarised in the analysis.**

**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/gov.scot))

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 we now only have a small window for decisive action to prevent the worst effects of climate change and that we must also now prepare for those already locked into our climate system.

- 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). The strategy is currently being refreshed to reflect developments both local, national and international which have taken place since its adoption. It should be noted that in October 2020 the Council approved a strengthened policy position agreeing organisational targets which align us with the national 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). 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 This is the eighth 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.
- 3.6 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’.
- 3.7 Recent developments at the national level, including work underway on new national statutory guidance, point to increasing requirements for public bodies reporting, particularly for local authorities. There will be an expectation that more areas are covered in the reporting, for example following the requirement to calculate home working emissions we anticipate 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 Cabinet and submitted as required by 30 November 2023 to the Sustainable Scotland Network who are collating and analysing the reports on behalf of the Scottish Government.

- 4.2 Members are asked to note the analysis of the report findings set out in Appendix 2, reporting the Council's progress in reducing emissions, and that this information will be considered by the Corporate Leadership Team as it progresses the work towards the Council meeting the commitment to reduce the 75% target set for 2030.

## **5. Legal and Procurement Implications**

- 5.1 The requirement for the Council to complete, approve and submit a version of the appended report template is, a legal requirement.
- 5.2 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 deliver any (Scottish adaptation programme); and in a way that it considers most sustainable
- 5.3 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 on taking forward these duties available at:

[https://www.gov.scot/publications/public\[1\]bodies-climate-change-duties-puttingpractice-guidance-required-part/pages/0/](https://www.gov.scot/publications/public[1]bodies-climate-change-duties-puttingpractice-guidance-required-part/pages/0/)

- 5.4 New statutory guidance is under preparation with publication expected next year. It is anticipated that this statutory guidance will significantly increase the level of expectation placed on local authorities in comparison to earlier guidance issued when targets, urgency and our understanding of required action were all less
- 5.5 The Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Order 2015 required the council along with all other public bodies considered to be 'major players' to annually report against the specified questions which are contained within the appended completed template. The deadline for submission of the annual reports is 30 November each year.
- 5.6 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 our 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.

## **7. Human Resources Implications**

- 7.1 There are no human resource implications arising directly from this report. Our commitments will be delivered within existing resources.

**8/**

## **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 Director of Strategic Change and Communities 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:

<b><i>Implementation</i></b>	<b><i>Due date</i></b>	<b><i>Managed by</i></b>
Completed reporting template nationally to be made publicly available alongside reports of all other public bodies	30 November 2023	Service Lead – Policy, Performance and Community Planning
Prepare annual report for 2023/24	31 October 2024	Service Lead – Policy, Performance and Community Planning

**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 29 November 2022 - [Annual Climate Change Duty Report 2021-22](#)**

**Person to Contact**    **Kevin Anderson – Service Lead Policy, Performance and Community Planning**  
**County Buildings, Wellington Square, Ayr, KA7 1DR**  
**Phone 01292 612981**  
**E-mail [kevin.anderson@south-ayrshire.gov.uk](mailto:kevin.anderson@south-ayrshire.gov.uk)**

**Lorna Jarvie – Service Coordinator Sustainability**  
**County Buildings, Wellington Square, Ayr, KA7 1DR**  
**Phone 01292 612297**  
**E-mail [Lorna.jarvie@south-ayrshire.gov.uk](mailto:Lorna.jarvie@south-ayrshire.gov.uk)**

**Date: 17 November 2023**

# Public Bodies Climate Change Duties Compliance Reporting Template 2022/23

## 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](mailto: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. The "Profile of Body" tab must be completed before proceeding to add any other data.
2. Question 1f must be completed to ensure the correct emission factors are applied in Q3b.
3. If you need to add more rows in any table please email the file [ccreporting@ed.ac.uk](mailto:ccreporting@ed.ac.uk)
4. More emission factors from the UK Government (DESNZ) release have been included this year. When completing Q3b you can filter by the Emission Type dropdown in column C.
5. Please only use the "Other" emission source rows (130 onwards) when there is no relevant emission source in the dropdown lists or if you have bespoke data/emission factors. Please provide a brief explanation in the comment field.
6. The water supply and sewage emission factors are based on Scottish Water's carbon intensities of service supply, one of the lowest in the UK water industry. If you still wish to use the UK DESNZ (formerly BEIS) factors (which are more than double) you will need to enter consumption data in an "Other" row.
7. Some auto-checks have been added to improve the quality of data entries, e.g. correct emission scopes where only one category ever applies.
8. More detailed reporting 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 Sector Report on Compliance with Climate Change Duties 2023 Template

## PART 1 Profile of Reporting Body

## 1a Name of reporting body

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

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

4835.12

THIS MUST BE COMPLETED

## 1d Metrics used by the body

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

Metric	Units	Value	Comments
Population size served	population	112799.00	2011 census
Floor area	m2	276,483	from asset management data
Other (please specify in comments)	Households	56715.00	Financial year end figure 2022/23 from Ayrshire Valuation Joint Board Council Tax Register, excluding commercial premises, Garages and Domestic Storage Premises

## 1e Overall budget of the body

Specify approximate £/annum for the report year.

Budget

Budget Comments

£306,798,000

Includes health and social care funding

## 1f Report type

Specify the report year type

Report type

Report year comments

Financial

2022-2023

THIS MUST BE COMPLETED

## 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 Barassie 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.

## PART 2 Governance, Management and Strategy

### Governance and management

#### 2a How is climate change governed in the body?

Provide a summary of the roles performed by the body's governance bodies and members in relation to climate change. If any of the body's activities in relation to climate change sit outside its own governance arrangements (in relation to, for example, land use, adaptation, transport, business travel, waste, information and communication technology, procurement or behaviour change), identify these activities and the governance arrangements. Provide a diagram / chart to outline the governance structure within the body.

The Council's first Sustainable Development and Climate Change Strategy was approved in June 2019 with a formal launch in climate week in October 2019. It introduced new governance structures for sustainable development and climate change for South Ayrshire Council as shown on page 28 of the strategy and appended to this report. This includes a Member Officer Working Group chaired by a nominated Councillor with membership including at least 2 further elected members and other senior officers. The member officer working group has decided during the reporting year to meet 3 to 4 times a year. Our progress on climate change is being reported annually to Cabinet, which has replaced the previous Leadership Panel, with other supporting papers or policies take to this or full council, such as the Climate Change Policy Paper taken to Full Council in October 2020. During the report year the council has also supported the South Ayrshire Sustainability Partnership which has met four times annually and is part of the South Ayrshire Community Planning Structure with regular reports going to the Community Planning Board. In November 2022 the line management (Service Lead) for sustainability switched from Neighbourhood Services to Performance, Policy and Community Planning, showing the strategic importance of this area and ensuring it is woven through all the business of the council. A new Council Plan was adopted in March 2023 which sets out how sustainability, climate change and biodiversity will be taken forward as cross cutting themes along with other cross cutting themes in a new impact assessment for all council decisions. It is anticipated that this will be adopted and implemented during the next reporting year 2023-24, along with a refresh of the Sustainable Development and Climate Change Strategy which will allow it to continue up to 2027.

#### 2b How is climate change action managed and embedded in the body?

Provide a summary of how decision-making in relation to climate change action by the body is managed and how responsibility is allocated to the body's senior staff, departmental heads etc. If any such decision-making sits outside the body's own governance arrangements (in relation to, for example, land use, adaptation, transport, business travel, waste, information and communication technology, procurement or behaviour change), identify how this is managed and how responsibility is allocated outside the body. Provide a diagram to show how responsibility is allocated to the body's senior staff, departmental heads etc.

The Service Lead - Performance, Policy and Community Planning, is the management lead on Climate Change and Sustainable Development with the Coordinator - Sustainability and Climate Change sitting within his group of services. Through this function steps have been taken to mainstream sustainable development and climate change action into Service Plans and Team Plans across the organisation. The Sustainability Team also includes rangers who have a climate change and biodiversity remit, engaging with policy and planning as well as connecting people practically and tangibly with the climate and nature loss emergencies we are experiencing. As well as a Member Officer Working Group, the council's climate change and sustainable development strategy also introduced an offer led coordination group chaired by the service lead and a number of sub groups to take forward specific challenges, all designed to support the member officer working group. The structure is shown on p28 of the strategy which is appended to the report and will be reviewed as part of the forthcoming strategy refresh.

<Insert Diagram Here or Attach File>



## Strategy

### 2c Does the body have specific climate change mitigation and adaptation objectives in its corporate plan or similar document?

Provide a brief summary of objectives if they exist.

Wording of objective	Name of document	Document Link
Cross cutting theme: sustainability, climate change and biodiversity	Council Plan 2023-2028	<a href="https://www.south-ayrshire.gov.uk/media/8511/Council-Plan-2023-28/pdf/SAC_Council_Plan_2023-28_-_v4_Feb_2023_for_panel.pdf?m=638161085736430000">https://www.south-ayrshire.gov.uk/media/8511/Council-Plan-2023-28/pdf/SAC_Council_Plan_2023-28_-_v4_Feb_2023_for_panel.pdf?m=638161085736430000</a>

### 2d Does the body have a climate change plan or strategy?

If yes, provide the name of any such document and details of where a copy of the document may be obtained or accessed.

Yes - the council approved its first Sustainable Development and Climate Change Strategy in June 2019. This document is available on the council website. A further climate change policy paper was approved in October 2020 which can also be found on the council website. The strategy is currently being refreshed and this will be updated on in the next annual report.

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

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

Topic area	Name of document	Link	Time period covered	Comments
Adaptation				Included in Sustainable Development and Climate Change Strategy
Business travel	Travel and Subsistence Policy		From July 2022	Covers this in that it requires Hierarchy of Travel to be followed
Staff Travel	Travel and Subsistence Policy		From July 2022	Covers this in that it requires Hierarchy of Travel to be followed
Energy efficiency	Energy Strategy		From August 2009	
Fleet transport	Fleet Strategy		2021-2023	
ICT	ICT Strategy		2021-2023	Several workstreams will have an impact on emissions and resilience
Renewable energy				
Sustainable/renewable heat				
Waste management	Waste Strategy 2021-2031		2021-2031	
Water and sewerage				
Land Use	South Ayrshire Local Plan 2		From August 2022 to 2032	
Other (please specify in comments)				

**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) development and adoption of an impact assessment for all decisions that ensures delivery against these requirements (2) adoption of a refreshed 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) adoption 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. As such we have 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 are able to extend our reach further and have a much 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 has recently made a commitment to run air shows in Ayr for the next 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. This will be reported on in our next annual report.

**PART 3 Corporate Emissions, Targets and Project Data**

**Emissions**

**3a Emissions from the start of the year which the body uses as a baseline (for its carbon footprint) to the end of the report year**  
 Complete the following table using the greenhouse gas emissions total for the body calculated on the same basis as for its annual carbon footprint / management reporting or, where applicable, its sustainability reporting. Include greenhouse gas emissions from the body's estate and operations (a) (measured and reported in accordance with Scopes 1 & 2 and, to the extent applicable, selected Scope 3 of the Greenhouse Gas Protocol (b). If data is not available for any year from the start of the baseline year to the end of the report year, provide an explanation in the comments column.

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

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

**ENSURE QUESTION 1f IS COMPLETED BEFORE STARTING THIS SECTION, THEN SELECT APPROPRIATE BASELINE YEAR. TOTAL EMISSIONS IN THE MOST RECENT FOOTPRINT YEAR**

Reference year	Year	Scope 1	Scope 2	Total	Units	Comments
Baseline Year	2005/06	15,990	13,044	31,498	tCO <sub>2</sub> e	
Year 1 carbon footprint	2006/07	14,948	12,446	29,781	tCO <sub>2</sub> e	
Year 2 carbon footprint	2007/08	14,438	13,288	29,965	tCO <sub>2</sub> e	
Year 3 carbon footprint	2008/09	14,091	13,833	30,247	tCO <sub>2</sub> e	
Year 4 carbon footprint	2009/10	14,272	13,662	30,220	tCO <sub>2</sub> e	
Year 5 carbon footprint	2010/11	13,450	13,513	29,135	tCO <sub>2</sub> e	
Year 6 carbon footprint	2011/12	12,622	12,232	26,828	tCO <sub>2</sub> e	
Year 7 carbon footprint	2012/13	13,182	12,339	27,363	tCO <sub>2</sub> e	
Year 8 carbon footprint	2013/14	11,529	11,511	24,850	tCO <sub>2</sub> e	
Year 9 carbon footprint	2014/15	12,270	13,023	27,643	tCO <sub>2</sub> e	Consistent organisational boundary applied from this FY onwards
Year 10 carbon footprint	2015/16	12,630	12,005	26,590	tCO <sub>2</sub> e	
Year 11 carbon footprint	2016/17	13,588	9,869	25,855	tCO <sub>2</sub> e	
Year 12 carbon footprint	2017/18	10,915	9,060	22,414	tCO <sub>2</sub> e	
Year 13 carbon footprint	2018/19	11,221	7,105	20,282	tCO <sub>2</sub> e	
Year 14 carbon footprint	2019/20	11,568	6,070	19,422	tCO <sub>2</sub> e	
Year 15 carbon footprint	2020/21	11,008	4,117	15,840	tCO <sub>2</sub> e	
Year 16 carbon footprint	2021/22	10,203	4,612	17,812	tCO <sub>2</sub> e	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	9,286.28	4,192.25	15,617.79	tCO <sub>2</sub> e	This figure is consistent with our agreed organisational boundary since 2014/15. It should be noted that this does not include commuting or homeworking.

3b

**Breakdown of emissions sources**

Complete the following table with the breakdown of emission sources from the body's most recent carbon footprint (greenhouse gas inventory); this should correspond to the last entry in the table in 3(a) above. Use the 'Comments' column to explain what is included within each category of emission source entered in the first column. If there is no

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

Emission Factor Year

2022

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

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

User defined emission sources can be entered in rows 130 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

Medical gas emission sources can be found under the "Process" Emission Type. The UK emission factor for homeworking has now been provided in the dropdown list.

Land Use & Land Use Change emissions can be included where data/estimates are available.

Emission Type	Emission source	Consumption data	Units	Units	Emissions (tCO <sub>2</sub> e)	Comments
Electricity	Electricity: UK	18,043,709	kWh	kg CO2e/kWh	3489.29245	Grid electricity in buildings, including PPP
Electricity	Transmission and distribution - Electricity: UK	18,043,709	kWh	kg CO2e/kWh	319.19321	Grid electricity in buildings, including PPP
Electricity	Electricity: UK	3,635,093	kWh	kg CO2e/kWh	702.95428	Street and traffic lighting
Electricity	Transmission and distribution - Electricity: UK	3,635,093	kWh	kg CO2e/kWh	64.30480	Street and traffic lighting
Fuels	Natural gas	34,624,043	kWh	kg CO2e/kWh	6320.27281	Natural gas in buildings, including PPP
Bioenergy	Wood pellets	130	tonnes	kg CO2e/tonnes	6.57210	Estimate of biomass based on pellet
Fuels	Burning oil (Kerosene)	1,734	litres	kg CO2e/litres	4.40459	Building heating
Fuels	Gas oil	133,079	litres	kg CO2e/litres	367.10774	Gas oil procured for golf machinery and building heating
Water	Water supply	264,785			0.00000	Clean water supply in buildings including PPP schools
Water	Water treatment	251,546			0.00000	Waste water sent for treatment including PPP schools
Transport - car	Average car - Unknown	868,147	miles	kg CO2e/miles	238.43657	business miles in private cars reclaimed
Waste	Commercial and industrial waste - Landfill	3,035	tonnes	kg CO2e/tonnes	1417.36578	Council Waste - Landfill
Waste	Organic: food and drink waste - Anaerobic digestion	319	tonnes	kg CO2e/tonnes	2.84470	Council waste - AD
Waste	Paper and board: board - Recycled	448	tonnes	kg CO2e/tonnes	9.52821	Council waste - recycling
Waste	Plastics: average plastics - Recycled	140	tonnes	kg CO2e/tonnes	2.97476	Council waste - recycling
Waste	Metal: mixed cans - Recycled	70	tonnes	kg CO2e/tonnes	1.48727	Council waste - recycling
Waste	Glass - Recycled	416	tonnes	kg CO2e/tonnes	8.85150	Council waste - recycling
Fuels	Diesel (average biofuel blend)	932,718	litres	kg CO2e/litres	2385.74392	Diesel used in fleet from depots
Fuels	Diesel (average biofuel blend)	15,204	litres	kg CO2e/litres	38.88815	Diesel used from outside garages
Fuels	Petrol (average biofuel blend)	73,790	litres	kg CO2e/litres	159.52302	Petrol used from outside garages
Fuels	Gas oil	1,367	litres	kg CO2e/litres	3.77022	Gas oil used from depots
Homeworking	Homeworking (office equipment + heating)	764,161	FTE Working Hour	kg CO2e/FTE Working Hour	260.39031	Based on 11.5% of work being homeworking and 7 hrs for 200 days a week being 1 FTE annual hours.
					15,878.179	

Total is different to that number quoted in Q3a, please check and/or state why in comments cell above

3c

**Generation, consumption and export of renewable energy**

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

Technology	Renewable Electricity		Renewable Heat	
	Total consumed by the body (kWh)		Total consumed by the body (kWh)	Total exported (kWh)
Solar PV	142,554			
Air Source Heat Pump			159,919	
Biomass			467,886	

## Targets

### 3d Organisational targets

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

Name of target	Type of target	Target	Units	Boundary/scope of target	Year used as baseline	Baseline figure	Units of baseline	Target completion year	Progress against target	Comments
75% reduction internal boundary emissions by 2030	Percentage	75% reduction in internal boundary emissions by 2030	total % reduction	Please select from drop down	2014/15	27,643	tCO2e	2029/30		refers to consistent organisational boundary as set in 2016
Net Zero internal boundary emissions by 2045	Absolute	Net Zero internal boundary emissions by 2045	tCO2e reduction	Please select from drop down	2014/15	27,643	tCO2e	2044/45		refers to consistent organisational boundary as set in 2016

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

Provide any relevant supporting information that is not already included elsewhere in this report.

South Ayrshire Council introduced carbon budgeting at the Service Level. Service Leads make day to day decisions about how they spend their allocated financial budgets and work with their accountants to make sure these budgets are always brought in on line. Service leads are now also provided with a carbon budget and information about how much carbon they are spending through the delivery of the services they manage by the sustainable development team. This allows them to begin to manage their carbon emissions in the same way they manage their financial budgets, through the daily decisions they make about the ways in which they provide the services they are in charge of delivering. At present this related only to the councils within boundary emissions covering building heat and energy, fleet fuel use and mileage claims, however we aspire to extend this into other emissions sources as data

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

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

Prior to submitting our annual reporting nationally to be made available via the SSN website the report is presented to cabinet and a

## Projects and changes

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

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

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

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

Emissions source	carbon savings (tCO <sub>2</sub> e)	Comments
Electricity	135	As per projects noted in 3f
Natural gas	833	As per projects noted in 3f
Other heating fuels		
Waste		
Water and sewerage		
Travel		
Fleet transport		
Other (please specify in comments)		
<b>Total</b>	<b>968</b>	

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 <sub>2</sub> 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 <sub>2</sub> e/annum)	Estimated costs savings (£/annum)	Behaviour Change	Comments
Troon Concert Hall LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	9,800		10	Electricity: UK	2	1431	No	LED lighting upgrade
Wallacetown Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	2,075		10	Electricity: UK	1	310	No	External Lighting LED &
Forehill Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	6,400		10	Electricity: UK	2	1231	No	External Lighting LED &
Kincaidston Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	4,880		10	Electricity: UK	2	1078	No	External Lighting LED &
Dalmilling Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	4,950		10	Electricity: UK	2	942	No	External Lighting LED &
Muirhead Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	3,800		10	Electricity: UK	2	340	No	External Lighting LED &
Heathfield Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	2,498		10	Electricity: UK	1	554	No	External Lighting LED &
Coylton Primary School LED lighting upgrade	Capital/ Net Zero Fund	2022/23	Estimated	3,400		10	Electricity: UK	1	513	No	External Lighting LED &
Building Energy Consumption Management	Capital/ Net Zero Fund	2022/23	Actual	187,958		1	Natural gas	833	245000	No	Total reductions equate to 4.6 million kWh, £245,000 of costs avoided, and 833 tonnes
ARA Streetlighting LED upgrade	Capital	2022/23	Estimated	4,200,000		20	Electricity: UK	123	115090	No	LED lighting replacement programme, almost

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	emissions (tCO <sub>2</sub> e)	decrease in	Comments
Estate changes	117	Decrease	Closure of Glenburn PS and St Ninians PS and replacement with
Service provision			Please select from drop down box
Staff numbers			Please select from drop down box
Other (please specify in comments)			Please select from drop down box
<b>Total</b>		<b>- 117</b>	

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

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

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

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

Emissions source	carbon savings (tCO <sub>2</sub> e)	Comments
Electricity	10	Heathfield PS, Girvan Academy, Annbank PS, Dailly
Natural gas		
Other heating fuels		
Waste		
Water and sewerage		
Travel		
Fleet Transport		
Other (please specify in comments)		
<b>Total</b>	<b>10</b>	

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 <sub>2</sub> e)	Increase or decrease in	Comments
Estate changes	401	Decrease	Closure/transfer of liability of Cairn PS, Gardenrose PS, St Cuthberts PS, Carrick Academy, Ayr Grammar,
Service provision			Please select from drop down box
Staff numbers			Please select from drop down box
Other (please specify in comments)			Please select from drop down box
<b>Total</b>		<b>- 401</b>	

- 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 <sub>2</sub> e)	Comments
Total project savings since baseline year	17,782	This figure represents only the estimated figure reported in 3f totalled for South Ayrshire Council since 2014/15

**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 but also much change in the organisation and in the international development of carbon reporting techniques. In June 2019 the council approved its first Sustainable Development and Climate Change Strategy and with an associated delivery structure. The requirement for all council buildings and transport to become net zero GHG emissions in line with national policy and the climate emergency was progressed through these structures and went before council for decision in October 2020. Carbon budgeting by service area has also been put in place to support delivery. South Ayrshire Council sustainability team supports communications and initiatives such as the Provost's School Footprint Challenge. The challenge sees all 9 secondary schools come together to share and learn from each other's best practice. In 2022 the council established a Net Zero Board group to drive forward activity to reduce our corporate building emissions. Pilot projects were identified and feasibility reports completed for projects including energy centres and EnerPHit building retrofit. A new Building Energy Management System, IQ Vision, has also been installed which has improved the remote access to building heating controls and generated energy reductions for the council. The Council has designed and constructed a new office and welfare facility which will be net zero in operation.

## Emission Factors by Scope/Category - for reference only, not editable.

Based on UK Government GHG Conversion Factors published annually, with the exception of water supply/treatment factors which use Scottish Water's rept

Category					
Scope	Level 1	Level 3	UOM	GHG Conversion Factor 2022 (kgCO2e/unit)	GHG Conversion Factor 2023 (kgCO2e/unit)
Scope 1	Bioenergy	Biogas	kWh	0.00022	0.00022
Scope 1	Bioenergy	Biogas	tonnes	1.21919	1.23595
Scope 1	Bioenergy	Landfill gas	kWh	0.00020	0.00020
Scope 1	Bioenergy	Wood chips	kWh	0.01053	0.01074
Scope 1	Bioenergy	Wood chips	tonnes	39.78833	40.58114
Scope 1	Bioenergy	Wood pellets	kWh	0.01053	0.01074
Scope 1	Bioenergy	Wood pellets	tonnes	50.55459	51.56192
Scope 2	Electricity	Electricity: UK	kWh	0.19338	0.20707
Scope 3	Electricity	Transmission and distribution - Electricity: UK	kWh	0.01769	0.01792
Scope 1	Fuels	Aviation spirit	kWh	0.24375	0.24382
Scope 1	Fuels	Aviation spirit	litres	2.33048	2.33116
Scope 1	Fuels	Aviation turbine fuel	kWh	0.24782	0.24758
Scope 1	Fuels	Aviation turbine fuel	litres	2.54514	2.54269
Scope 1	Fuels	Burning oil (Kerosene)	kWh	0.24677	0.24677
Scope 1	Fuels	Burning oil (Kerosene)	litres	2.54013	2.54016
Scope 1	Fuels	Burning oil (Kerosene)	tonnes	3165.01000	3165.04181
Scope 1	Fuels	Coal (industrial)	tonnes	2411.43000	2396.47994
Scope 1	Fuels	Diesel (100% mineral diesel)	litres	2.69880	2.65937
Scope 1	Fuels	Diesel (average biofuel blend)	litres	2.55784	2.51206
Scope 1	Fuels	Fuel oil	kWh	0.26816	0.26813
Scope 1	Fuels	Fuel oil	litres	3.17523	3.17492
Scope 1	Fuels	Fuel oil	tonnes	3229.20000	3228.89019
Scope 1	Fuels	Gas oil	kWh	0.25679	0.25650



Scope 1	Fuels	Gas oil	litres	2.75857	2.75541
Scope 1	Fuels	Gas oil	tonnes	3230.28000	3226.57859
Scope 1	Fuels	LPG	kWh	0.21449	0.21450
Scope 1	Fuels	LPG	litres	1.55709	1.55713
Scope 1	Fuels	Marine fuel oil	litres	3.10669	3.10202
Scope 1	Fuels	Marine gas oil	litres	2.77539	2.77139
Scope 1	Fuels	Natural gas	kWh	0.18254	0.18293
Scope 1	Fuels	Petrol (100% mineral diesel)	litres	2.33970	2.34503
Scope 1	Fuels	Petrol (average biofuel blend)	litres	2.16185	2.09747
Scope 1	Fuels	Propane	kWh	0.21411	0.21410
Scope 1	Fuels	Propane	litres	1.54354	1.54358
Scope 1	Fuels	Waste oils	kWh	0.25682	0.25641
Scope 1	Fuels	Waste oils	litres	2.75367	2.74924
Scope 1	Fuels	Waste oils	tonnes	3224.57000	3219.37916
Scope 2	Heat and steam	District heat and steam	kWh	0.17073	0.17965
Scope 2	Heat and steam	Onsite heat and steam	kWh	0.17073	0.17965
Scope 3	Heat and steam	Transmission and distribution - district heat & steam, 5% loss	kWh	0.00899	0.00945
Scope 3	Homeworking	Homeworking (office equipment + heating)	FTE Working Hour	0.34075	0.33378
Scope 3	Hotel stay	Hotel stay - UK	Room per night	10.40000	10.40000
Scope 3	Hotel stay	Hotel stay - UK (London)	Room per night	11.50000	11.50000
Scope 3	Material use	Aggregates - Primary material production	tonnes	7.75102	7.75138
Scope 3	Material use	Aggregates - Recycled source	tonnes	3.19471	3.19491
Scope 3	Material use	Aggregates - Re-used	tonnes	2.21000	2.21000
Scope 3	Material use	Asbestos - Primary material production	tonnes	27.00000	27.00000
Scope 3	Material use	Asphalt - Primary material production	tonnes	39.21249	39.21249
Scope 3	Material use	Asphalt - Recycled source	tonnes	28.65471	28.65491
Scope 3	Material use	Asphalt - Re-used	tonnes	1.73826	1.73826
Scope 3	Material use	Average construction - Primary material production	tonnes	80.33777	80.21282
Scope 3	Material use	Batteries - Alkaline - Primary material production	tonnes	4633.47826	4633.47826
Scope 3	Material use	Batteries - Li ion - Primary material production	tonnes	6308.00000	6308.00000

Scope 3	Material use	Batteries - NiMh - Primary material production	tonnes	28380.00000	28380.00000
Scope 3	Material use	Bricks - Primary material production	tonnes	241.75102	241.75138
Scope 3	Material use	Clothing - Primary material production	tonnes	22310.00000	22310.00000
Scope 3	Material use	Clothing - Re-used	tonnes	152.25000	152.25000
Scope 3	Material use	Compost derived from food and garden waste - Primary material production	tonnes	114.83221	114.83405
Scope 3	Material use	Compost derived from garden waste - Primary material production	tonnes	112.01558	112.01742
Scope 3	Material use	Concrete - Primary material production	tonnes	131.75102	131.75138
Scope 3	Material use	Concrete - Recycled source	tonnes	3.19471	3.19491
Scope 3	Material use	Electrical items - fridges and freezers - Primary material production	tonnes	4363.33333	4363.33333
Scope 3	Material use	Electrical items - IT - Primary material production	tonnes	24865.47556	24865.47556
Scope 3	Material use	Electrical items - large - Primary material production	tonnes	3267.00000	3267.00000
Scope 3	Material use	Electrical items - small - Primary material production	tonnes	5647.94563	5647.94563
Scope 3	Material use	Food and drink - Primary material production	tonnes	3701.40359	3701.40359
Scope 3	Material use	Glass - Primary material production	tonnes	1402.76667	1402.76667
Scope 3	Material use	Glass - Recycled source	tonnes	823.18954	823.18954
Scope 3	Material use	Insulation - Primary material production	tonnes	1861.75102	1861.75138
Scope 3	Material use	Insulation - Recycled source	tonnes	1852.08089	1852.08125
Scope 3	Material use	Metal: aluminium cans and foil (excl. forming) - Primary material production	tonnes	9122.63640	9108.72731
Scope 3	Material use	Metal: aluminium cans and foil (excl. forming) - Recycled source	tonnes	999.39628	990.47810
Scope 3	Material use	Metal: mixed cans - Primary material production	tonnes	5268.55640	5254.64731
Scope 3	Material use	Metal: mixed cans - Recycled source	tonnes	1473.78996	1461.67759
Scope 3	Material use	Metal: scrap metal - Primary material production	tonnes	3682.68290	3669.43615
Scope 3	Material use	Metal: scrap metal - Recycled source	tonnes	1633.17782	1620.27606
Scope 3	Material use	Metal: steel cans - Primary material production	tonnes	3100.63640	3086.72731
Scope 3	Material use	Metal: steel cans - Recycled source	tonnes	1740.63640	1726.72731
Scope 3	Material use	Metals - Primary material production	tonnes	4018.00295	4005.13777
Scope 3	Material use	Metals - Recycled source	tonnes	1571.27037	1558.94894
Scope 3	Material use	Mineral oil - Primary material production	tonnes	1401.00000	1401.00000
Scope 3	Material use	Mineral oil - Recycled source	tonnes	676.00000	676.00000
Scope 3	Material use	Paper and board: board - Primary material production	tonnes	828.86816	801.52177
Scope 3	Material use	Paper and board: board - Recycled source	tonnes	719.55532	699.88184
Scope 3	Material use	Paper and board: mixed - Primary material production	tonnes	884.16078	868.06994

Scope 3	Material use	Paper and board: mixed - Recycled source	tonnes	731.67375	718.56937
Scope 3	Material use	Paper and board: paper - Primary material production	tonnes	919.39628	910.47810
Scope 3	Material use	Paper and board: paper - Recycled source	tonnes	739.39628	730.47810
Scope 3	Material use	Plasterboard - Primary material production	tonnes	120.05000	120.05000
Scope 3	Material use	Plasterboard - Recycled source	tonnes	32.17000	32.17000
Scope 3	Material use	Plastics: average plastic film - Primary material production	tonnes	2574.16475	2560.25566
Scope 3	Material use	Plastics: average plastic film - Recycled source	tonnes	1894.62863	1890.70135
Scope 3	Material use	Plastics: average plastic rigid - Primary material production	tonnes	3276.70693	3263.92202
Scope 3	Material use	Plastics: average plastic rigid - Recycled source	tonnes	2748.83298	2744.09248
Scope 3	Material use	Plastics: average plastics - Primary material production	tonnes	3116.29156	3102.44851
Scope 3	Material use	Plastics: average plastics - Recycled source	tonnes	2326.53028	2322.22425
Scope 3	Material use	Plastics: HDPE (incl. forming) - Primary material production	tonnes	3269.83889	3255.92980
Scope 3	Material use	Plastics: HDPE (incl. forming) - Recycled source	tonnes	2350.61634	2346.68907
Scope 3	Material use	Plastics: LDPE and LLDPE (incl. forming) - Primary material production	tonnes	2600.63640	2586.72731
Scope 3	Material use	Plastics: LDPE and LLDPE (incl. forming) - Recycled source	tonnes	1797.22268	1793.29541
Scope 3	Material use	Plastics: PET (incl. forming) - Primary material production	tonnes	4032.39250	4018.48341
Scope 3	Material use	Plastics: PET (incl. forming) - Recycled source	tonnes	3125.27157	3121.34429
Scope 3	Material use	Plastics: PP (incl. forming) - Primary material production	tonnes	3104.72699	3090.81790
Scope 3	Material use	Plastics: PP (incl. forming) - Recycled source	tonnes	2541.31327	2537.38600
Scope 3	Material use	Plastics: PS (incl. forming) - Primary material production	tonnes	3777.94890	3764.03981
Scope 3	Material use	Plastics: PS (incl. forming) - Recycled source	tonnes	3198.95732	3187.08199
Scope 3	Material use	Plastics: PVC (incl. forming) - Primary material production	tonnes	3413.08416	3399.17507
Scope 3	Material use	Plastics: PVC (incl. forming) - Recycled source	tonnes	2489.67044	2485.74317
Scope 3	Material use	Soils - Recycled source	tonnes	0.98471	0.98491
Scope 3	Material use	Tyres - Primary material production	tonnes	3335.57190	3335.57190
Scope 3	Material use	Tyres - Re-used	tonnes	731.21789	731.21789
Scope 3	Material use	Wood - Primary material production	tonnes	312.61178	312.61178
Scope 3	Material use	Wood - Recycled source	tonnes	112.96968	112.96968
Scope 3	Material use	Wood - Re-used	tonnes	38.54288	38.54288
Scope 1	Process	Desflurane	kg	2540.00000	2540.00000

Scope 1	Process	Sevoflurane	kg	130.00000	130.00000
Scope 1	Process	Isoflurane	kg	510.00000	510.00000
Scope 1	Process	Anaesthetic Nitrous Oxide	kg	298.00000	298.00000
Scope 1	Refrigerants	HFC-134a	kg	1430.00000	1300.00000
Scope 1	Refrigerants	HFC-32	kg	675.00000	677.00000
Scope 1	Refrigerants	R404A	kg	3922.00000	3943.00000
Scope 1	Refrigerants	R407C	kg	1774.00000	1624.00000
Scope 1	Refrigerants	R410A	kg	2088.00000	1924.00000
Scope 1	Refrigerants	R422D	kg	2729.00000	2473.00000
Scope 1	Refrigerants	R422E	kg	2592.00000	2350.00000
Scope 1	Refrigerants	R423A	kg	2280.00000	2274.00000
Scope 1	Refrigerants	R424A	kg	2440.00000	2212.00000
Scope 1	Refrigerants	R425A	kg	1505.00000	1431.00000
Scope 1	Refrigerants	R426A	kg	1508.00000	1371.00000
Scope 1	Refrigerants	R427A	kg	2138.00000	2024.00000
Scope 1	Refrigerants	R428A	kg	3607.00000	3417.00000
Scope 1	Refrigerants	R429A	kg	14.00000	15.00000
Scope 1	Refrigerants	R430A	kg	95.00000	106.00000
Scope 1	Refrigerants	R431A	kg	38.00000	40.00000
Scope 1	Refrigerants	R432A	kg	2.00000	1.50000
Scope 1	Refrigerants	R433A	kg	3.00000	3.00000
Scope 1	Refrigerants	R433B	kg	3.00000	3.00000
Scope 1	Refrigerants	R433C	kg	3.00000	3.00000
Scope 1	Refrigerants	R434A	kg	3245.00000	3075.00000
Scope 1	Refrigerants	R435A	kg	26.00000	28.40000
Scope 1	Refrigerants	R436A	kg	3.00000	3.00000
Scope 1	Refrigerants	R436B	kg	3.00000	3.00000
Scope 1	Refrigerants	R437A	kg	1805.00000	1639.00000
Scope 1	Refrigerants	R438A	kg	2265.00000	2059.00000
Scope 1	Refrigerants	R439A	kg	1983.00000	1828.00000
Scope 1	Refrigerants	R440A	kg	144.00000	156.00000

Scope 1	Refrigerants	R441A	kg	3.00000	3.00000
Scope 1	Refrigerants	R442A	kg	1888.00000	1754.00000
Scope 1	Refrigerants	R443A	kg	2.00000	1.50000
Scope 1	Refrigerants	R444A	kg	88.00000	89.00000
Scope 1	Refrigerants	R445A	kg	130.00000	118.00000
Scope 1	Refrigerants	R500	kg	8077.00000	7564.00000
Scope 1	Refrigerants	R501	kg	4083.00000	3870.00000
Scope 1	Refrigerants	R502	kg	4657.00000	4786.00000
Scope 1	Refrigerants	R503	kg	14560.00000	13299.00000
Scope 1	Refrigerants	R504	kg	4143.00000	4299.00000
Scope 1	Refrigerants	R505	kg	8502.00000	7956.00000
Scope 1	Refrigerants	R506	kg	4490.00000	3857.00000
Scope 1	Refrigerants	R507A	kg	3985.00000	3985.00000
Scope 1	Refrigerants	R508A	kg	13214.00000	11607.00000
Scope 1	Refrigerants	R508B	kg	13396.00000	11698.00000
Scope 1	Refrigerants	R509A	kg	5741.00000	5758.00000
Scope 1	Refrigerants	R510A	kg	1.00000	1.00000
Scope 1	Refrigerants	R511A	kg	9.00000	7.00000
Scope 1	Refrigerants	R512A	kg	189.00000	196.00000
Scope 1	Refrigerants	R600 = butane	kg	4.00000	4.00000
Scope 1	Refrigerants	R600A = isobutane	kg	3.00000	3.00000
Scope 1	Refrigerants	R601 = pentane	kg	5.00000	2.00000
Scope 1	Refrigerants	R601A = isopentane	kg	5.00000	2.00000
Scope 2	Renewables	Renewable Elec Purchase Direct Supply	kWh	0.00000	0.00000
Scope 2	Renewables	Renewable Heat Purchase Direct Supply	kWh	0.00000	0.00000
Scope 2&3	Transport - car	Average business travel car - Battery Electric Vehicle	km	0.05140	0.05480
Scope 2&3	Transport - car	Average business travel car - Battery Electric Vehicle	miles	0.08272	0.08819
Scope 2&3	Transport - car	Average business travel car - Plug-in Hybrid Electric Vehicle	km	0.09349	0.09392
Scope 2&3	Transport - car	Average business travel car - Plug-in Hybrid Electric Vehicle	miles	0.15046	0.15113
Scope 3	Transport - car	Average car - Diesel	km	0.17082	0.16983
Scope 3	Transport - car	Average car - Diesel	miles	0.27492	0.27332
Scope 3	Transport - car	Average car - Hybrid	km	0.12004	0.11898

Scope 3	Transport - car	Average car - Hybrid	miles	0.19318	0.19147
Scope 3	Transport - car	Average car - Petrol	km	0.17048	0.16391
Scope 3	Transport - car	Average car - Petrol	miles	0.27436	0.26379
Scope 3	Transport - car	Average car - Unknown	km	0.17067	0.16664
Scope 3	Transport - car	Average car - Unknown	miles	0.27465	0.26817
Scope 1	Transport - car	Average fleet car - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - car	Average fleet car - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - car	Average fleet car - Plug-in Hybrid Electric Vehicle	km	0.06840	0.06588
Scope 1	Transport - car	Average fleet car - Plug-in Hybrid Electric Vehicle	miles	0.11007	0.10601
Scope 2&3	Transport - car	Large business travel car - Battery Electric Vehicle	km	0.05550	0.05797
Scope 2&3	Transport - car	Large business travel car - Battery Electric Vehicle	miles	0.08932	0.09330
Scope 2&3	Transport - car	Large business travel car - Plug-in Hybrid Electric Vehicle	km	0.10148	0.10158
Scope 2&3	Transport - car	Large business travel car - Plug-in Hybrid Electric Vehicle	miles	0.16332	0.16349
Scope 3	Transport - car	Large car - Diesel	km	0.20953	0.20859
Scope 3	Transport - car	Large car - Diesel	miles	0.33722	0.33570
Scope 3	Transport - car	Large car - Hybrid	km	0.15491	0.15244
Scope 3	Transport - car	Large car - Hybrid	miles	0.24929	0.24530
Scope 3	Transport - car	Large car - Petrol	km	0.27639	0.27224
Scope 3	Transport - car	Large car - Petrol	miles	0.44480	0.43812
Scope 3	Transport - car	Large car - Unknown	km	0.22733	0.22612
Scope 3	Transport - car	Large car - Unknown	miles	0.36584	0.36389
Scope 1	Transport - car	Large fleet car - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - car	Large fleet car - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - car	Large fleet car - Plug-in Hybrid Electric Vehicle	km	0.07410	0.07082
Scope 1	Transport - car	Large fleet car - Plug-in Hybrid Electric Vehicle	miles	0.11924	0.11397
Scope 2&3	Transport - car	Medium business travel car - Battery Electric Vehicle	km	0.04878	0.05257
Scope 2&3	Transport - car	Medium business travel car - Battery Electric Vehicle	miles	0.07850	0.08458
Scope 2&3	Transport - car	Medium business travel car - Plug-in Hybrid Electric Vehicle	km	0.08597	0.08501
Scope 2&3	Transport - car	Medium business travel car - Plug-in Hybrid Electric Vehicle	miles	0.13834	0.13680
Scope 3	Transport - car	Medium car - Diesel	km	0.16800	0.16716
Scope 3	Transport - car	Medium car - Diesel	miles	0.27039	0.26902

Scope 3	Transport - car	Medium car - Hybrid	km	0.10999	0.10904
Scope 3	Transport - car	Medium car - Hybrid	miles	0.17702	0.17549
Scope 3	Transport - car	Medium car - Petrol	km	0.18470	0.17819
Scope 3	Transport - car	Medium car - Petrol	miles	0.29724	0.28676
Scope 3	Transport - car	Medium car - Unknown	km	0.17588	0.17246
Scope 3	Transport - car	Medium car - Unknown	miles	0.28306	0.27754
Scope 1	Transport - car	Medium fleet car - Battery Electric Vehicle	km	0.00410	0.00419
Scope 1	Transport - car	Medium fleet car - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - car	Medium fleet car - Plug-in Hybrid Electric Vehicle	km	0.06473	0.06144
Scope 1	Transport - car	Medium fleet car - Plug-in Hybrid Electric Vehicle	miles	0.10421	0.09887
Scope 3	Transport - car	Motorbike - Average	km	0.11355	0.11367
Scope 3	Transport - car	Motorbike - Average	miles	0.18274	0.18294
Scope 2&3	Transport - car	Small business travel car - Battery Electric Vehicle	km	0.04416	0.04823
Scope 2&3	Transport - car	Small business travel car - Battery Electric Vehicle	miles	0.07107	0.07763
Scope 2&3	Transport - car	Small business travel car - Plug-in Hybrid Electric Vehicle	km	0.05255	0.05402
Scope 2&3	Transport - car	Small business travel car - Plug-in Hybrid Electric Vehicle	miles	0.08458	0.08694
Scope 3	Transport - car	Small car - Diesel	km	0.13989	0.13931
Scope 3	Transport - car	Small car - Diesel	miles	0.22514	0.22420
Scope 3	Transport - car	Small car - Hybrid	km	0.10332	0.10150
Scope 3	Transport - car	Small car - Hybrid	miles	0.16628	0.16336
Scope 3	Transport - car	Small car - Petrol	km	0.14652	0.14080
Scope 3	Transport - car	Small car - Petrol	miles	0.23580	0.22660
Scope 3	Transport - car	Small car - Unknown	km	0.14440	0.14037
Scope 3	Transport - car	Small car - Unknown	miles	0.23239	0.22591
Scope 1	Transport - car	Small fleet car - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - car	Small fleet car - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - car	Small fleet car - Plug-in Hybrid Electric Vehicle	km	0.02216	0.02163
Scope 1	Transport - car	Small fleet car - Plug-in Hybrid Electric Vehicle	miles	0.03567	0.03481
Scope 3	Transport - public	Average local bus	passenger.km	0.09650	0.10215
Scope 3	Transport - public	Black cab	km	0.30624	0.30604
Scope 3	Transport - public	Black cab	passenger.km	0.20416	0.20402
Scope 3	Transport - public	Coach	passenger.km	0.02733	0.02718

Scope 3	Transport - public	Ferry - Average (all passenger)	passenger.km	0.11286	0.11270
Scope 3	Transport - public	Ferry - Car passenger	passenger.km	0.12952	0.12933
Scope 3	Transport - public	Ferry - Foot passenger	passenger.km	0.01874	0.01871
Scope 3	Transport - public	Flights - Domestic, to/from UK - Average passenger	passenger.km	0.24587	0.27258
Scope 3	Transport - public	Flights - International, to/from non-UK - Average passenger	passenger.km	0.18362	0.18395
Scope 3	Transport - public	Flights - International, to/from non-UK - Business class	passenger.km	0.40781	0.39044
Scope 3	Transport - public	Flights - International, to/from non-UK - Economy class	passenger.km	0.14063	0.13464
Scope 3	Transport - public	Flights - International, to/from non-UK - First class	passenger.km	0.56251	0.53854
Scope 3	Transport - public	Flights - International, to/from non-UK - Premium economy class	passenger.km	0.22500	0.21542
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Average passenger	passenger.km	0.19309	0.26128
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Business class	passenger.km	0.42882	0.58029
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Economy class	passenger.km	0.14787	0.20011
Scope 3	Transport - public	Flights - Long-haul, to/from UK - First class	passenger.km	0.59147	0.80040
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Premium economy class	passenger.km	0.23659	0.32016
Scope 3	Transport - public	Flights - Short-haul, to/from UK - Average passenger	passenger.km	0.15353	0.18592
Scope 3	Transport - public	Flights - Short-haul, to/from UK - Business class	passenger.km	0.22652	0.27430
Scope 3	Transport - public	Flights - Short-haul, to/from UK - Economy class	passenger.km	0.15102	0.18287
Scope 3	Transport - public	International rail	passenger.km	0.00446	0.00446
Scope 3	Transport - public	Light rail and tram	passenger.km	0.02861	0.02860
Scope 3	Transport - public	Local bus (not London)	passenger.km	0.10778	0.11836
Scope 3	Transport - public	Local London bus	passenger.km	0.07936	0.07832
Scope 3	Transport - public	London Underground	passenger.km	0.02781	0.02780
Scope 3	Transport - public	National rail	passenger.km	0.03549	0.03546
Scope 3	Transport - public	Regular taxi	km	0.20826	0.20806
Scope 3	Transport - public	Regular taxi	passenger.km	0.14876	0.14861
Scope 2&3	Transport - van/HGV	Business Travel Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	km	0.06225	0.07346
Scope 2&3	Transport - van/HGV	Business Travel Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	miles	0.10019	0.11824
Scope 2&3	Transport - van/HGV	Business Travel Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	km	0.03612	0.03850
Scope 2&3	Transport - van/HGV	Business Travel Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	miles	0.05814	0.06197
Scope 2&3	Transport - van/HGV	Business Travel Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	km	0.05640	0.05932
Scope 2&3	Transport - van/HGV	Business Travel Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	miles	0.09079	0.09547
Scope 2&3	Transport - van/HGV	Business Travel Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	km	0.09327	0.08967



Scope 2&3	Transport - van/HGV	Business Travel Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	miles	0.15009	0.14430
Scope 1	Transport - van/HGV	Fleet Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	km	0.00000	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	miles	0.00000	0.00000
Scope 1	Transport - van/HGV	HGV (all diesel) - All artics - Average laden	km	0.92391	0.90644
Scope 1	Transport - van/HGV	HGV (all diesel) - All artics - Average laden	miles	1.48688	1.45877
Scope 1	Transport - van/HGV	HGV (all diesel) - All HGVs - Average laden	km	0.89061	0.87205
Scope 1	Transport - van/HGV	HGV (all diesel) - All HGVs - Average laden	miles	1.43329	1.40341
Scope 1	Transport - van/HGV	HGV (all diesel) - All rigids - Average laden	km	0.84061	0.82313
Scope 1	Transport - van/HGV	HGV (all diesel) - All rigids - Average laden	miles	1.35282	1.32470
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All artics - Average laden	km	1.06854	1.04867
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All artics - Average laden	miles	1.71964	1.68766
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All HGVs - Average laden	km	1.04208	1.02098
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All HGVs - Average laden	miles	1.67706	1.64310
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All rigids - Average laden	km	1.00090	0.98025
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All rigids - Average laden	miles	1.61079	1.57754
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Diesel	km	0.23156	0.23128
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Diesel	miles	0.37268	0.37224
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Petrol	km	0.21332	0.20132
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Petrol	miles	0.34330	0.32400
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Unknown	km	0.23099	0.23037
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Unknown	miles	0.37174	0.37075
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Diesel	km	0.14189	0.14212
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Diesel	miles	0.22836	0.22875
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Petrol	km	0.19687	0.18217
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Petrol	miles	0.31683	0.29318

Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Diesel	km	0.17513	0.17405
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Diesel	miles	0.28186	0.28013
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Petrol	km	0.20461	0.19594
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Petrol	miles	0.32928	0.31534
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Diesel	km	0.25481	0.25346
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Diesel	miles	0.41010	0.40792
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Petrol	km	0.32607	0.31444
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Petrol	miles	0.52475	0.50605
Scope 3	Waste	Aggregates - Landfill	tonnes	1.23376	1.23401
Scope 3	Waste	Aggregates - Recycled	tonnes	0.98471	0.98491
Scope 3	Waste	Asbestos - Landfill	tonnes	5.91308	5.91332
Scope 3	Waste	Asphalt - Landfill	tonnes	1.23376	1.23401
Scope 3	Waste	Asphalt - Recycled	tonnes	0.98471	0.98491
Scope 3	Waste	Average construction - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Average construction - Recycled	tonnes	0.98471	0.98491
Scope 3	Waste	Batteries - Recycled	tonnes	21.28000	21.28100
Scope 3	Waste	Books - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Books - Landfill	tonnes	1041.78497	1164.09963
Scope 3	Waste	Books - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Bricks - Landfill	tonnes	1.23376	1.23401
Scope 3	Waste	Clinical Waste - Orange Stream	tonnes	273.00000	273.00000
Scope 3	Waste	Clinical Waste - Other	tonnes	1000.00000	1000.00000
Scope 3	Waste	Clinical Waste - Red Stream	tonnes	1000.00000	1000.00000
Scope 3	Waste	Clinical Waste - Yellow Stream	tonnes	297.00000	297.00000
Scope 3	Waste	Clothing - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Clothing - Landfill	tonnes	444.92469	496.68331
Scope 3	Waste	Clothing - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Commercial and industrial waste - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Commercial and industrial waste - Landfill	tonnes	467.00838	520.33474
Scope 3	Waste	Concrete - Landfill	tonnes	1.23376	1.23401
Scope 3	Waste	Concrete - Recycled	tonnes	0.98471	0.98491

Scope 3	Waste	Glass - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Glass - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Glass - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Household/Municipal/Domestic waste - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Household/Municipal/Domestic waste - Landfill	tonnes	446.20411	497.04471
Scope 3	Waste	Insulation - Landfill	tonnes	1.23376	1.23401
Scope 3	Waste	Insulation - Recycled	tonnes	0.98471	0.98491
Scope 3	Waste	Metal: aluminium cans and foil (excl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: aluminium cans and foil (excl. forming) - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Metal: aluminium cans and foil (excl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: mixed cans - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: mixed cans - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Metal: mixed cans - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: scrap metal - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: scrap metal - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Metal: scrap metal - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: steel cans - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Metal: steel cans - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Metal: steel cans - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Metals - Landfill	tonnes	1.26435	1.26435
Scope 3	Waste	Metals - Recycled	tonnes	0.98471	0.98491
Scope 3	Waste	Mineral oil - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Mineral oil - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Organic: food and drink waste - Anaerobic digestion	tonnes	8.91058	8.91242
Scope 3	Waste	Organic: food and drink waste - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Organic: food and drink waste - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Organic: food and drink waste - Landfill	tonnes	626.85615	700.20988
Scope 3	Waste	Organic: garden waste - Anaerobic digestion	tonnes	8.91058	8.91242
Scope 3	Waste	Organic: garden waste - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Organic: garden waste - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Organic: garden waste - Landfill	tonnes	578.94041	646.60659
Scope 3	Waste	Organic: mixed food and garden waste - Anaerobic digestion	tonnes	8.91058	8.91242
Scope 3	Waste	Organic: mixed food and garden waste - Combustion	tonnes	21.28019	21.28081

Scope 3	Waste	Organic: mixed food and garden waste - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Organic: mixed food and garden waste - Landfill	tonnes	587.32567	655.98717
Scope 3	Waste	Paper and board: board - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Paper and board: board - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Paper and board: board - Landfill	tonnes	1041.78497	1164.09963
Scope 3	Waste	Paper and board: board - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Paper and board: mixed - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Paper and board: mixed - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Paper and board: mixed - Landfill	tonnes	1041.78497	1164.09963
Scope 3	Waste	Paper and board: mixed - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Paper and board: paper - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Paper and board: paper - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Paper and board: paper - Landfill	tonnes	1041.78497	1164.09963
Scope 3	Waste	Paper and board: paper - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plasterboard - Landfill	tonnes	71.95000	71.95000
Scope 3	Waste	Plasterboard - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: average plastic film - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: average plastic film - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: average plastic film - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: average plastic rigid - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: average plastic rigid - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: average plastic rigid - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: average plastics - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: average plastics - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: average plastics - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: HDPE (incl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: HDPE (incl. forming) - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: HDPE (incl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: LDPE and LLDPE (incl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: LDPE and LLDPE (incl. forming) - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: LDPE and LLDPE (incl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PET (incl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PET (incl. forming) - Landfill	tonnes	8.88327	8.88413

Scope 3	Waste	Plastics: PET (incl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PP (incl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PP (incl. forming) - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: PP (incl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PS (incl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PS (incl. forming) - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: PS (incl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PVC (incl. forming) - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Plastics: PVC (incl. forming) - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	Plastics: PVC (incl. forming) - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Soils - Landfill	tonnes	17.57714	19.51734
Scope 3	Waste	Soils - Recycled	tonnes	0.98471	0.98491
Scope 3	Waste	Tyres - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	WEEE - fridges and freezers - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	WEEE - large - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	WEEE - large -Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	WEEE - mixed - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	WEEE - mixed - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	WEEE - small - Landfill	tonnes	8.88327	8.88413
Scope 3	Waste	WEEE - small - Recycled	tonnes	21.28019	21.28081
Scope 3	Waste	Wood - Combustion	tonnes	21.28019	21.28081
Scope 3	Waste	Wood - Composting	tonnes	8.91058	8.91242
Scope 3	Waste	Wood - Landfill	tonnes	828.01354	925.24450
Scope 3	Waste	Wood - Recycled	tonnes	21.28019	21.28081
Scope 3	Water	Water supply (mains)	cubic metres	0.10000	0.10000
Scope 3	Water	Water supply (mains)	million litres	100.00000	110.00000
Scope 3	Water	Wastewater	cubic metres	0.19000	0.19000
Scope 3	Water	Wastewater	million litres	190.00000	190.00000

END

## 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).

### 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 2022/23 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.

## 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.

### 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 will consider 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.

The Ayrshire Shoreline Management Plan is a strategic document for managing the Ayrshire Coastline and climate change is considered as part of this management process. In line with the strategic policy objectives for Ballantrae detailed in the Ayrshire Shoreline Management, South Ayrshire Council has an ongoing project following on from the findings of Dynamic Coast 2 which aims to improve understanding of coastal change in the area, identify the impacts that future sea level rise and climate change may have and develop adaptation measures to help manage this change. This project includes community engagement to raise awareness of the risks of future coastal change and gain community input to the development of adaptation pathways.

Sand dune restoration work along with other biodiversity and nature projects such as wildflower meadows help to make the council more resilient to different types of extreme weather events, flooding, dry periods etc. South Ayrshire Council work with the Energy Agency who manage the HEPS: ABS programme within the local area. The focus is on areas of fuel poverty. An LHEES is being developed led by Estates.

Work continues to improve compliance levels with EESH and SHQS and provision is made for abeyances and exceptions within the Councils Local Housing Strategy 2017-22.

## 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 2022-23 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. The risk is 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.

## 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. A mid-way review and refresh of the strategy is now underway and will incorporate this action plan to progress against the adaptation framework. The ongoing project responding to Dynamic Coast 2 looking at coastal erosion at Ballantrae with a view to adaptation planning is also a particular area of focus in the year ahead, including lessons learned for wider application including coastal change adaptation planning for the rest of our coastline.

## 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 the '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 with a view to coastal change adaptation planning both in the local and ultimately for the rest of our coastline.

## 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 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 (which was updated in 2023) 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.

All tendered Procurement projects include SAC's standard clause on Sustainability, see below:

#### 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.

The Council requests that Tenderers detail, within their tender submission, how they will commit to Sustainable Pledges and ensure that, throughout the duration of the contract, sustainable benefits can be delivered through the products and services provided.

Examples of which could be:

- Sustainable products and services. Details of the steps the organisation will take to provide products and services that are designed for sustainability, as well as safety, minimising the environmental impacts arising from their delivery or use.
- Energy savings. The organisation's targets on reducing greenhouse gas emissions throughout the duration of the contract. Can energy use be reduced or will more renewable energy be used? Are there any efforts within the organisation to meet the Scottish Government's target of net zero greenhouse gas emissions by 2045, with a 75% reduction by 2030?
- Monitoring and recording emissions. The monitoring methods that will be employed by their organisation, throughout the duration of the contract, to record energy consumption and greenhouse gas emissions, including any baseline data to track improvements against.
- Waste reduction. Measures the organisation will take throughout the duration of the contract to generate less waste or increase the amount of waste that is reused and recycled.
- Transport solutions. Details of the organisation's use of more sustainable transport methods throughout the duration of the contract. Can more efficient methods of delivery be employed or are there any efforts within the organisation to adopt a more sustainable fleet?
- Recycle, reduce or re-use initiatives. Will the organisation employ any examples of the circular economy in the delivery of the contract?
- Climate change adaption. What action will be taken to increase the organisation's resilience to climate change risks, throughout the duration of the contract? This could include the development of business continuity plans in the event of threats to the natural environment, buildings, infrastructure networks and society such as flooding, storms, fires and food security.
- Climate change awareness. What organisational sustainability activities or training will be conducted throughout the duration of the contract? Will there be efforts to increase climate literacy and green job skills through training and the understanding of sustainable objectives among staff and members of the supply chain?
- Any other initiatives that will be implemented to reduce the organisation's impact upon the environment throughout the duration of the contract.

Under question [xx] of the Technical Envelope, Tenderers are required to provide details of any Sustainable Pledges that can be made in relation to this Contract.

Tenderers must make a commitment against at least one Sustainable Pledge Category.

Please note any Sustainable Pledges stated shall be monitored as part of the Council's Contract and Supplier Management (CSM) process to ensure delivery as part of the Key Performance Indicators detailed above.

## 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.

As seen in our previous financial year 2022/23 also had various large scale new construction projects where best practice in supporting climate change duties in relation to procurement were a key focus. These were concluded/ongoing within the Council's financial year, April 2022 to March 2023. The Council continue to invest in contracts for upgrading energy efficiency aspects of properties and housing including upgrading heating control systems for commercial buildings and cavity insulation for private homes. Recent tenders include External Wall Insulation (EWI) & Re-roofing Works for various areas within South Ayrshire and consultancy for Net Zero Carbon retrofit work.



**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 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 and Climate Change 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.

<b>Name:</b>	Kevin Anderson
<b>Role in the body:</b>	Service Lead - Policy, Performance and Community Planning
<b>Date:</b>	06/11/2023

**Wider Impact and Influence on GHG Emissions**

**Q1) Historic Emissions (Local Authorities Only)**

Please indicate emission amounts and unit of measurement (e.g. tCO<sub>2</sub>e) 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 (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O) 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 CO<sub>2</sub>e emissions: **subset dataset** (emissions within the scope of influence of local authorities):

(2) UK local and regional CO<sub>2</sub>e emissions: **full dataset**:

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

Local Authority:(Please State)	South Ayrshire														
DESNZ Dataset:(full or sub-set)	Subset														
Source	Sector	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Units	Comments
DESNZ Sectors	Total Emissions	874.34	795.26	824.18	822.50	736.43	734.71	693.46	676.22	643.44	637.11	557.20	634.42	ktCO <sub>2</sub> e	
	Industry and Commercial	265.16	238.62	249.60	264.01	224.62	219.90	198.68	179.75	161.11	166.74	151.82	181.77	ktCO <sub>2</sub> e	
	Domestic	299.62	261.75	278.77	272.08	228.76	225.34	206.18	199.31	193.44	190.49	180.06	186.73	ktCO <sub>2</sub> e	
	Transport total	235.47	228.79	220.93	216.68	218.97	223.36	229.68	233.16	227.70	223.16	173.18	205.18	ktCO <sub>2</sub> e	
	Per Capita	7.77	7.04	7.30	7.28	6.54	6.53	6.16	5.99	5.71	5.65	4.96	5.64	ktCO <sub>2</sub> e	

**2a) Targets**

Please detail your wider influence targets

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

**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

Sector	Start year for policy/action implementation	Year that the policy/action will be fully implemented	Annual CO <sub>2</sub> saving once fully implemented (tCO <sub>2</sub> )	Latest Year measured	Saving in latest year measured (tCO <sub>2</sub> )	Status	Metric/indicators for monitoring progress	Delivery Role	During project/policy design and implementation, has ISM or an equivalent behaviour change tool been used?	Please give further details of this behaviour change activity.	Value of Investment (£)	Ongoing Costs (£/year)	Primary Funding Source for Implementation of Policy/Action	Comments
Please select from drop down box	Please select from drop down box	Please select from drop down box		Please select from drop down box		Please select from drop down box		Please select from drop down box	Please select from drop down box				Please select from drop down box	

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

**Q4) Partnership Working, Communications and Capacity Building**

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

Key Action Type	Description	Organisation's project role	Lead Organisation (if not reporting organisation)	Private Partners	Public Partners	3rd Sector Partners	Outputs	Comments
Please select from drop down box		Please select from drop down box						

**Other Notable Reportable Activity**

Q5) Please detail key actions relating to Food and Drink, Biodiversity, Water, Procurement and Resource Use in the table below

Key Action Type	Key Action Description	Organisation's Project Role	Impacts	Comments
Please select from drop down box		Please select from drop down box		

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

## South Ayrshire Council Public Bodies Climate Change Duties Annual Report 2022-23

### Analysis of Report Findings

Our within boundary emissions as a Council have dropped by 12% since 2021/22 (the previous financial year), 19% since 2019/20 (the pre pandemic year), and 43% 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.

Over the past year the Council has achieved reductions in emissions from all buildings energy and street lighting sources:

- While the Council used slightly more electricity in buildings in 2022/23 than the previous year (3% increase), this still equated to an overall reduction in emissions from electricity used in buildings (5% reduction), as the carbon intensity of the grid continued to reduce in line with our UK electricity production becoming less dependent on fossil fuel driven generation.
- While natural gas remains the biggest single emissions source in our emissions inventory by a long way (over 80% more than the nearest single source), gas used and gas emissions both reduced by 14% over 2022/23 in comparison to the previous year.
- Electricity used in street lighting reduced by a significant 15% due to the installation of new technologies, leading to a very significant 22.5% reduction in emissions from electricity used in street lighting and road signs. 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.
- Much of our current progress in this area of our emissions is as a result of decarbonisation of the electricity grid and we are ensuring we make the most of this in terms of working towards our emissions reduction targets by moving away from gas which cannot be decarbonised.
- 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 forthcoming 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.

Over the past year our emissions from travel and transport have increased across all categories:

- In comparison to the previous year we have seen a continued increase in the miles driven and emissions from grey fleet, otherwise known as mileage identified through employee expense claims, which are up by 8%.
- In comparison to the previous year we have seen the diesel used by our fleet increase by 5% and the petrol used increase by 38%.
- When conversion factors for fuel use are taken into account this equates to a 6.5% increase in emissions from diesel and a 36% increase in emissions from petrol.
- This shows 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, 2021-22, they are now up on our pre pandemic figures from financial year 2019-20 as well, showing that the increase is more than just a return to business as usual post pandemic and needs to 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.
- While the fleet team have recently 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 has been established on the corporate change programme which is gathering baseline data, undertaking stakeholder engagement, 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.

As our buildings emissions continue to shrink as an organisation our transport emissions take 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.

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. It is the case that 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.

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 make a real difference, not only to emissions reduction but also to other aspects which we have to

address in our legal duties and reporting. These include adaptation to a changing climate locally and nationally, 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.