
Report to: Audit and Scrutiny Committee

Date of Meeting: 6th February 2025

**Subject: Public Bodies' Climate Change Report Duty (PBCCRD):
Clackmannanshire Council Annual Report 2023/24
Internal Audit**

Report by: Strategic Director (Place)

1.0 Purpose

- 1.1. The purpose of this report is to inform members of the outcome of an internal audit process recently carried out on the Council's Public Body Climate Change Duties Annual Report 2023/24 and to set out actions that are being taken to address issues raised by the audit process.

2.0 Recommendations

- 2.1 It is recommended that the Council:
- (a) notes the contents of the internal audit report on Clackmannanshire Council's progress in delivering its climate change duties (Appendix 1 – Internal Audit report), as delivered to the Scottish Government, and
 - (b) Supports the recommendations to improve performance and reporting, including those from Internal Audit as set out in paragraph 4.6 below.

3.0 Background

- 3.1. Clackmannanshire Council has statutory duties under Section 44 of the Climate Change (Scotland) Act 2009 to contribute to reducing Scotland's greenhouse gas emissions; to contribute to helping Scotland adapt to a changing climate; and to act in the way that it considers most sustainable.
- 3.2. The Climate Change (Scotland) Act 2009 was amended by the Climate Change (Emissions Reduction Targets) (Scotland) Act 2019, increasing the ambition of Scotland's emissions reduction targets to net zero by 2045 and revising interim and annual emissions reduction targets.
- 3.3. The guidance associated with the legislation recommends that public bodies embed climate change action in all core corporate and business planning processes and report on their progress annually.

- 3.4. The Scottish Government expects Local Authorities to lead by example in combating climate change and making a valuable contribution towards achieving the country's emissions reduction targets.
- 3.5. The Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Order requires public bodies to report annually on their compliance with the duties. Clackmannanshire Council's most recent Public Sector Climate Change Reporting Duties (PBCCRD) report covered the year 2023/24 (see Appendix 2 - PBCCD submitted report) and was submitted to Sustainable Scotland Network (SSN), the government reporting body, by the deadline of 30 November 2024.

4.0 Considerations

- 4.1. The PBCCRD report was submitted to internal audit for review, the purpose being to assess the reporting arrangements and accuracy of the information contained within the 2023/24 report and also to consider whether the recommendations of their previous review of 2022/23 had been put in place.
- 4.2. On completion of the internal audit, they reported that there had been some delays in Internal Audit receiving the final report and supporting information from responsible officers, partly due to vacancies in some services and the associated resourcing issues which impacted on the ability of the services to provide data. However, the report was submitted to the SSN by the deadline of 30 November.
- 4.3. Internal Audit found that the recommendations from last year have been partially addressed. They considered that further steps were required to develop a timetable which would allow for the final report to be ready for internal audit validation one month before the submission deadline and that the Climate Emergency Working Group should hold a central record of what information is provided by each officer.
- 4.4. During the course of the auditors work they also identified that the Council Travel Plan required updating and that there was a need to ensure the reporting of waste emissions figures consistently on the return.
- 4.5. On the basis of their findings Internal Audit have provided 'Limited Assurance' on the Council's reporting arrangements and the accuracy of the information in the Public Body Climate Change Duties 2023/24 Annual Report.
- 4.6. The recommendations of Internal Audit for future year's reports have been recorded and steps put in place to ensure that they are followed up and delivered for the 24/25 PBCCRD report. The recommendations contained within the report have been accepted by the Development Service and are set out below.
 - 4.6.1 Develop a annual report compilation timetable with the final report being completed and ready for internal audit validation one month before the submission date (Complete – see appendix 3 – PBCCD timetable 24/25);
 - 4.6.2 A central record should be held by the Climate Emergency Working Group identifying what information was provided by which Officer for the

report. (Complete - The Energy and Sustainability Team will be the first point of contact for requests for further information);

4.6.3 The Council Travel Plan should be reviewed and updated as required. It should also be approved by Council within an appropriate timeframe (An appropriate timeframe will be agreed by Transport and Human resources services);

4.6.4 Waste emissions figures from Council operations must be consistently compiled and included in future returns. (When national figures are produced in September / October the details will be placed into the report);

4.6.5 In order to improve the extent of carbon savings data further investigation should be undertaken into a tool that can assist the services to capture the relevant carbon data to calculate the emissions savings. (There are ongoing investigations into a suitable tool. Costs and available resources will have an impact on the ability to introduce a service wide tool).

4.6.6 All of the Council's carbon reduction projects should involve a calculation of potential carbon savings as part of the project plan and actual carbon savings realised from project implementation should also be quantified. Both should be included in future PBCCD annual reports (Where figures are available the carbon saving details will be provided. Services will be encouraged to capture this data. This will be promoted at the Climate Emergency Board and Climate Emergency Working Group meetings).

4.7 As can be seen steps are being taken to fulfil the recommendations. Full details of the recommendations and agreed management actions can be found in Annex 2 of Appendix 2, Internal Audit – Public Body Climate Change Duties Final Report.

4.8 The PBCCRD report is a standard template split into five required areas:

- Profile of Reporting Body
- Governance, Management and Strategy
- Corporate Emissions, Targets and Project Data
- Adaptation
- Procurement

4.9 The process of completing the return requires significant effort and coordination in gathering information from a wide range of Council services. As in previous years this has been carried out by one officer from the Energy and Sustainability team contacting services direct. Due to other services being busy and having competing priorities, on occasions it has proven difficult to obtain timely responses from services. Long term absence of key members of staff has also played a part in delays in completing the report. This year, the Climate Emergency Working Group (CEWG) will pro-actively encourage prompt

responses to ensure that deadlines are met. The group of managers and officers who sit on this group have direct access to the required information. The PBCCRD will continue to be a standing item on the agenda for this meeting and a clear timetable has been drawn up to ensure that PBCCRD information is gathered at an appropriate time to allow the report to be finalised, checked and sent to internal audit at least one month prior to the deadline date that SGN sets. This will help to ensure that the deadlines are met for the report. Areas of risk have also been identified to ensure that 'single points of failure' are not experienced where, for example, a staff member is absent for an extended period and previously no other officer was able to provide information essential for completion of the report.

4.10 Significant progress has been made in the last year both in response to the recommendations of the previous review and to the Climate Emergency declared by the Council in August 2022. These include:

- the Council's greenhouse gas emissions are continuing to reduce (see appendix 4 – Greenhouse gas emissions);
- an internal Strategic Energy Management Group has been established to assist in the delivery of the Council's Local Heat and Energy Efficiency Strategy;
- a strategic environmental assessments of our Climate Change strategy has been completed and it is planned to present the strategy to Council for approval early in 2025;
- further consultation and a strategic environmental assessment of our draft Pollinator strategy has taken place and plans are in place to present this also to Council in early 2025;
- the Climate Emergency Action Plan (CEAP) continues to be developed and updated by members of the Climate Emergency Group;
- the Climate Emergency Board (CEB) continues to meet quarterly to create, implement and own annual greenhouse gas emission reduction targets for Clackmannanshire Council's own operations and the wider area;
- steps are being taken to embed the Climate Emergency Action Plan action / key performance indicators into Pentana, the Corporate Performance Management System.

5. Sustainability Implications

5.1 The recommendations in this and the Council's Climate Emergency Action Plan will enable the Council to better meet its sustainability and climate change duties. They are also likely to result in fewer adverse impacts on the environment, a reduction in greenhouse gas emissions, and better preparedness for the likely impacts of a changing climate.

6. Resource Implications

6.1 Staffing

There are increasing pressures on staff to deliver Climate Change initiatives and to comply with statutory returns. The updating and development of these plans and strategies have proved challenging during the past year due to resource limitations and other legislative and Government priorities requiring the development of new strategies, statistical data and formal returns.

7.0 Declarations

The recommendations contained within this report support or implement our Corporate Priorities and Council Policies.

(1) **Our Priorities** (Please double click on the check box ☒)

- Clackmannanshire will be attractive to businesses & people and ensure fair opportunities for all ☒
- Our families; children and young people will have the best possible start in life ☐
- Women and girls will be confident and aspirational, and achieve their full potential ☐
- Our communities will be resilient and empowered so that they can thrive and flourish ☒

(1) **Council Policies**

- Complies with relevant Council Policies ☒

8.0 Appendices

Appendix 1 – Internal Audit report

Appendix 2 - PBCCD submitted report

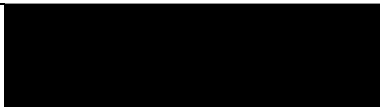
Appendix 3 : PBCCD timetable 24/25

Appendix 4: Greenhouse gas emissions

Author(s)

NAME	DESIGNATION	TEL NO / EXTENSION
Lawrence Hunter	Energy and Sustainability	Ext 2681

Approved by

NAME	DESIGNATION	SIGNATURE
Kevin Wells	Executive Director (Place)	

MEMO

To: Lawrence Hunter, Energy and Sustainability Strategy Officer

Copy To: Nikki Bridle, Chief Executive
Kevin Wells, Strategic Director, Place
Chris Alliston, Strategic Director, Partnership and Performance
Lorraine Sanda, Strategic Director, People
Isabel Wright, Internal Audit Manager

From: Sarah McPhee, Senior Internal Auditor

Date: 23 December 2024

Subject: **INTERNAL AUDIT – PUBLIC BODY CLIMATE CHANGE DUTIES DRAFT REPORT**

1. As part of our Internal Audit coverage for 2024/25, Internal Audit has recently completed validation work on the Council's Public Body Climate Change Duties (PBCCD) 2023/24 Annual Report.

Background

2. The Climate Change (Scotland) Act 2009 (the Act) introduced the requirement for public bodies to report on their climate change duties. The Council is due to submit its 2023/24 report / return to the Sustainable Scotland Network (SSN) by the deadline of 30 November 2024. This is in line with the timescales laid down in the Act.
3. The Climate Change (Emissions Reduction Targets) (Scotland) Act 2019 sets targets to reduce Scotland's emissions of all greenhouse gases to net-zero by 2045, with interim targets for reductions of at least 56% by 2020, 75% by 2030, and 90% by 2040.
4. On 11 August 2022, the Council agreed to set a target for the Council's own operations to reach net zero greenhouse gas emissions by 2040 at the latest and set interim targets leading up to 2040. They also set a target for the Clackmannanshire area to reach net zero greenhouse gas emissions by 2045 at the latest.

Internal Audit Findings

5. To ensure the consistency of returns across public bodies, the annual report format is a standard template split into five required areas:

- Profile of Reporting Body;
 - Governance, Management, and Strategy;
 - Corporate Emissions, Targets, and Project Data;
 - Adaptation; and
 - Procurement.
6. The return is made up of the completion of a checklist, which confirms that the information has been validated by the organisation's Internal Audit section. Our work, therefore, focused on reviewing the reporting arrangements and the accuracy of the information included in the report. Our previous review in 2023 of the 2022/23 Public Sector Change Duties Annual Report reported that there were considerable delays in receiving the information and final report resulting in the submission noting it was 'pending Internal Audit validation'. There was also some ambiguity around who compiled the data resulting in several amendments being made.
7. This previous review in 2023 made the following recommendations:
- a PBCCD annual report compilation timetable should be developed with the final report completed and ready for Internal Audit validation one month before the submission deadline;
 - a central record should be held by the Climate Emergency Working Group identifying what information was provided by which officer;
 - all the carbon reduction projects should involve a calculation of potential carbon savings as part of the project plan; the PBCCD annual report should include as an action / agenda item for the Climate Change Board / Emergency Working Group;
 - all report anomalies identified should be investigated and the PBCCD should be amended / reissued; and
 - waste figures should be included in future returns.
8. This year unfortunately there have again been delays in Internal Audit receiving the supporting information from responsible officers and also the final Public Bodies Climate Change report, however, the report was submitted to the SSN by the deadline of 30 November. Internal Audit have also found that the recommendations from last year have been partially addressed, with the following two recommendations remaining outstanding and requiring further action:
- a PBCCD annual report compilation timetable should be developed with the final report completed and ready for Internal Audit validation one month before the submission deadline; and
 - a central record should be held by the Climate Emergency Working Group identifying what information was provided by which officer.
9. In addition, during the course of our current work we identified various additional required actions relating to the Council's climate change governance, management, and strategy arrangements. These involved

updating the Council Travel Plan and having it approved by the Council in an appropriate timeframe; reporting waste emissions figures consistently on the return; developing a timetable to allow the final report to be completed one month prior to submission; a central record identifying what information was provided by which officer; and investigating the development of a tool to help capture carbon data to calculate project emissions savings.

10. Our findings are summarised in **Annex 1**.
11. A summary of our recommendations is set out at **Annex 2**. In conclusion, previous Internal Audit recommendations from the audit of the 2022/23 Public Sector Change Duties Annual Report have been partially implemented (see paragraph 8 above) and are included again for ease of reading in Annex 2
12. We can, therefore, provide **LIMITED ASSURANCE** (see **Annex 3** for a definition) specifically on the Council's reporting arrangements and the accuracy of the information in the Public Body Climate Change Duties 2023/24 Annual Report. It is anticipated that the Energy and Sustainability Strategy Officer will report on Climate Change Duties to the Council as soon as it can be tabled. This will include recommendations based upon the findings from this audit.

Sarah McPhee
Senior Internal Auditor
23 December 2024

CLIMATE CHANGE ACT PUBLIC BODY DUTIES ANNUAL REPORT

INTERNAL AUDIT FINDINGS

Section 1 – Profile of Reporting Body

1. We were content that Section 1 had been fully completed with information being provided from Human Resources and Accountancy. Information recorded includes the number of full time equivalent staff, floor area of the operational and non-operational estate, and the Council's budget for 2023/24. The figures originally provided had to be amended in order to reconcile to supporting data.

Section 2 – Governance, Management, and Strategy

2. The information provided in Section 2 is provided from a variety of sources across the Council and we were content that it had been accurately recorded. We did, however, note the incorrect name of a Directorate in section 2a which was amended for later versions.
3. We reviewed the minutes of Climate Emergency Board Meetings held in February 2024 which confirmed progress in relation to Climate Change Strategy and Climate Emergency Action Plan to help deliver on the new net zero targets and to align priorities.
4. It is noted that the Council Travel Plan promoted as a proposal to cover Business Travel was last updated in 2018/19, but still requires to be approved by the Council. We **recommend** that the Council Travel Plan should be reviewed and updated as required, ensuring it should also be approved by Council within an appropriate timeframe.
5. Section 2(f) of the report sets out the Council's top five priorities for Climate Change, governance, management, and strategy for the year ahead. We were content these were agreed by the Strategic Director of Place, updated for the 2023/24 Annual Report, and that these are in line with the priorities agreed by the Council in August 2022 as part of the Climate Change Strategy and Net Zero Targets Report. These priorities are:
 - Delivery of the Wellbeing Economy Local Outcome Improvement Plan which incorporates the strategic outcome of Shaping Places;
 - To obtain Council approval of the Climate Change Strategy, which incorporates additional governance measures in the form of a Climate Emergency Board and Climate Emergency Working Group;
 - Establish a Strategic Energy Management Group to provide governance for the Regional Energy Masterplan;
 - Embed the Climate Emergency Action Plan action / key performance indicators into Pentana, Corporate Performance Management System; and
 - Embed the Regional Energy Masterplan action / key performance indicators into Pentana, Corporate Management System.
6. In delivering these top priorities the Council will need to take cognisance of a number of Scottish Government priorities. These include:
 - The Climate Change (Emissions Reduction Targets) (Scotland) Act 2019. This sets targets to reduce Scotland's emissions of all greenhouse gases to net zero by 2045;
 - The Wellbeing Economy. The Council is working with the Scottish Government to support the development of a local economy that works for its residents, businesses, and natural environment.

Key to developing a Wellbeing Economy is to make the economy more humane and more sustainable;
and

- Scottish Government budget (2023/24) initiatives to tackle the climate emergency.

Section 3 – Emissions, Targets, and Projects

- The emissions data is based on greenhouse gas emissions which the Council can directly influence.
- The Council's Energy Officer sources the data from records of usage. The Carbon Footprint and Project Register Tool (CFPR) has not been used this year. The CFPR tool was developed by Zero Waste Scotland and the SSN, with partners, to support the public sector with implementing effective carbon management processes. It is unclear why the Council has decided not to use the CFPR tool to confirm their figures.
- We were content that the information provided in relation to Scope 1 (gas, LPG, fuel oil, diesel, and biomass), Scope 2 (grid electricity) and Scope 3 (water, water treatment, and grid electricity) emissions was consistent with that in the 2018/19, 2019/20, 2020/21, 2021/22, and 2022/23 reports. It was noted that the Scope 1 and 3 for 2022/23 in the current return was different from the final return received in the prior year, however, evidence has been received to demonstrate a late amendment to the submission in the prior year.
- The information at **Table 1** confirms that the Council's greenhouse gas emissions have reduced over the previous four years. There was a major increase in 2021/22, however, due to the incorporation of emissions from waste (7,074 tCO₂e) into the carbon footprint in Scope 3. This information was not available in previous years, however, was again not included for 2022/23 due to information being unavailable from the originating department. Waste emissions have been included in the 2023/24 figures (5,901 tCO₂e) into the carbon footprint in Scope 3. There was also a slight decrease in Scope 1 and 2 emissions due to a reduction in fuel usage, and the increase in Scope 3 is due to increased mileage claims.

Table 1
Greenhouse Gas Emissions

Year	Scope 1	Scope 2	Scope 3	Total	Units
2017/18	3,940	3,096	503	7,538	tCO ₂ e
2018/19	3,445	2,418	421	6,285	tCO ₂ e
2019/20	3,468	2,139	379	5,986	tCO ₂ e
2020/21	3,137	1,663	245	5,045	tCO ₂ e
2021/22	3,098	1,890	7,327	12,315	tCO ₂ e
2022/23	3,163	1,800	173	5,136	tCO ₂ e
2023/24	3,071	1,777	6,162	11,010	tCO ₂ e

- We reviewed the data for Sections 3(a), 3(b), and 3(c) of the report. We were content, after amendments, that they fully reconciled to supporting documentation.
- In section 3(b) waste is included as an emission type, although, there is no consistency in reporting the emissions figures each year. Waste emission figures were reported as part of the 2021/22 return and again in the 2023/24 return, as per **Table 1**. We **recommend** that waste emissions figures from Council operations must be consistently compiled and included in future returns.
- Section 3(e) details the estimated total annual carbon savings from all projects implemented by the body in the report year. The supporting evidence cannot be provided as it is noted there is insufficient data available on projects to quantify the carbon savings for Natural Gas and other Heating Fuel categories. This was clarified as a lack of resource available to gather the data required to calculate the savings and that a tool to help the services capture this information is being investigated going forward. We **recommend** in order

to improve the extent of carbon savings data further investigation should be undertaken to develop a tool that can assist the services to capture the relevant carbon data to calculate the emissions savings.

14. The Council's top ten carbon reduction projects for 2023/24 are recorded in Section 3(f). These include repairs to heating systems, boiler replacements to Council owned housing and public buildings, active travel routes, Community Bus Fund, HVO trial, and ongoing LED lighting upgrade on street lights. Internal Audit could not validate all the carbon reduction projects due to the lack of estimated savings recorded in the return, the one exception being the HVO (hydrotreated vegetable oil) trial figures which are estimated figures based only on savings on waste vehicles. We **recommend** that all of the Council's carbon reduction projects should involve a calculation of potential carbon savings as part of the project plan, and actual carbon savings realised from project implementation should also be quantified. These figures should be included in future PBCCD annual reports.

Section 4 – Adaptation

15. The objective and themes covered in Section 4 are part of the standard template fields. Although there has not been a thorough and systematic assessment of all current and future climate-related risks, the Energy and Sustainability Team have made steps towards this, including the collation of risks from the earlier Local Climate Impacts Profile and from the Incident Report, Resilience Plans, and Business Plans. As with last year, climate change is featured in the corporate risk log. We were content with the progress made, and comments in the return were provided by the Energy and Sustainability Strategy Officer using their knowledge of corporate developments.
16. Significant work has been undertaken across a variety of areas. This includes supporting pollinator friendly planting and implement a thoughtful grass cutting regime, as well as working in partnership with Forth Rivers Trust to consider where natural flood management measures could be introduced.

Section 5 – Procurement

17. The information contained within this section of the report was agreed with the Procurement Manager. These arrangements were acceptable.

**CLIMATE CHANGE ACT PUBLIC BODY DUTIES ANNUAL REPORT
RECOMMENDATIONS AND ACTION PLAN**

Classification of Recommendations		
Grade 1: Key risks and / or significant deficiencies which are critical to the achievement of strategic objectives. Consequently, management needs to address and seek resolution urgently.	Grade 2: Risks or potential weaknesses which impact on individual objectives, or impact the operation of a single process, and so require prompt but not immediate action by management.	Grade 3: Less significant issues and / or areas for improvement which we consider merit attention but do not require to be prioritised by management.

Rec No.	Recommendation	Agreed Management Action	Responsible Owner	Action Due
1.	<p>A Public Bodies Climate Change Duties (PBCCD) annual report compilation timetable should be developed, whereby the information required should be submitted by responsible Officers soon after the end of the reporting year.</p> <p>The final report should be completed and ready for Internal Audit validation one month before the submission deadline.</p> <p>Memo Paragraph: 8</p> <p>Grade 2</p>	<p><u>Recommendation Accepted</u></p> <p>A timetable has already been developed and can be further enhanced to include supporting documentation.</p> <p>Challenges are:</p> <ul style="list-style-type: none"> that some data, such as Waste, is not available until much later in the year; and the Sustainable Scotland Network have reported that they will be making substantial changes to the format, which makes it difficult for the services to pre-judge what the new requirements will be. 	Energy and Sustainability Team / Climate Emergency Board	28 February 2025

Rec No.	Recommendation	Agreed Management Action	Responsible Owner	Action Due
2.	<p>A central record should be held by the Climate Emergency Working Group identifying what information was provided by which Officer for the report.</p> <p>This should also include supporting documentation to evidence the information provided.</p> <p>Memo Paragraph: 8</p> <p>Grade 3</p>	<p><u>Recommendation Accepted</u></p> <p>A central record has already been established. Supporting documentation will be included within the folder.</p> <p>The Energy and Sustainability Team will be the first point of contact for requests for further information as staff roles and responsibilities can change in the various services over the reporting period.</p> <p>This will ensure that the Energy and Sustainability Team are provided with any updates that require to be placed in the reporting document.</p>	Energy and Sustainability Team / Climate Emergency Working Group	30 September 2025
3.	<p>The Council Travel Plan should be reviewed and updated as required. It should also be approved by Council within an appropriate timeframe.</p> <p>Annex 1 Paragraph: 2.4</p> <p>Grade 3</p>	<p><u>Recommendation Accepted</u></p> <p>An appropriate timeframe will be agreed by the service.</p>	Transport and Human Resources	31 October 2025
4.	<p>Waste emissions figures from Council operations must be consistently compiled and included in future returns.</p> <p>Annex 1 Paragraph: 3.12</p> <p>Grade 2</p>	<p><u>Recommendation Accepted</u></p> <p>When national figures are produced in September / October the details will be placed into the report.</p>	Waste / Energy and Sustainability Team	31 October 2025
5.	<p>In order to improve the extent of carbon savings data further investigation should be undertaken into a tool that can assist the services to capture the relevant carbon data to calculate the emissions savings.</p> <p>Annex 1 Paragraph: 3.13</p> <p>Grade 3</p>	<p><u>Recommendation Accepted</u></p> <p>There are ongoing investigations into a suitable tool.</p> <p>Costs and available resources will have an impact on the ability to introduce a service wide tool.</p>	Climate Emergency Working Group / Digital Transformation Team	Ongoing

Rec No.	Recommendation	Agreed Management Action	Responsible Owner	Action Due
6.	<p>All of the Council's carbon reduction projects should involve a calculation of potential carbon savings as part of the project plan.</p> <p>Actual carbon savings realised from project implementation should also be quantified.</p> <p>These figures should be included in future Public Bodies Climate Change Duties annual reports.</p> <p>Annex 1 Paragraph: 3.14</p> <p>Grade 2</p>	<p><u>Recommendation Accepted</u></p> <p>Where figures are available the carbon saving details will be provided.</p> <p>Services will be encouraged to capture this data. This will be promoted at the Climate Emergency Board and Climate Emergency Working Group meetings.</p> <p>If a corporate tool can be secured for recording this information this information may be able to be provided more readily.</p> <p>As previously mentioned, costs and resources will impact upon our ability to introduce an appropriate tool suitable for all services.</p>	Climate Emergency Working Group / Digital Transformation Team	Ongoing

DEFINITION OF ASSURANCE CATEGORIES

Level of Assurance	Definition
Substantial assurance	The systems for risk, control, and governance are largely satisfactory, but there is some scope for improvement as the present arrangements could undermine the achievement of business and/or control objectives and/or leave them vulnerable to some risk of error/abuse.
Limited assurance	The systems for risk, control, and governance have some satisfactory aspects, but contain a number of significant weaknesses that are likely to undermine the achievement of business and/or control objectives and leave them vulnerable to an unacceptable risk of error/abuse.
No assurance	The systems for risk, control, and governance are ineffectively designed and/or are operated ineffectively such that business and/or control objectives are not being achieved and the risk of serious error/abuse is unacceptable. Significant improvements are required.

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

PART 1 Profile of Reporting Body

1a Name of reporting body

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

Clackmannanshire 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

2067.53

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	51750.00	Mid-2022 population estimates published by NRS 26-Mar-24 (Download file from data link > Table 1 tab > cell E13) - https://www.nrscotland.gov.uk/mid-year-population-estimates/mid-2022
Floor area	m2	109342.00	Figures obtained from building survey reports
Please select from drop down box			
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Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			
Other (please specify in comments)			

1e Overall budget of the body

Specify approximate £/annum for the report year.

Budget

Budget Comments

£152,184,000

1f Report type

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

Reporting type

Report year comments

Financial

Financial (April to March) 2023/24

1g Context

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

Clackmannanshire is the smallest local authority in Scotland by population and third smallest by mainland area covering 159 square kms. Clackmannanshire Council is responsible for providing a range of public services, including education, social care, roads and transport, economic development, housing and planning, environmental protection, waste management, and cultural and leisure services. More information about the organisation can be found on the Council website; www.clacks.gov.uk

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

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.

In 2018/19 the organisation was separated into 3 service areas - Partnership and Performance, People and Place. Day-to-day responsibility for co-ordinating the Council's sustainability and climate change response,

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 Council's 'Be the Future' programme and Statement of Corporate Priorities are structured around the 3 themes: Sustainable Inclusive Growth; Empowering Families and Communities; and, Health & Well-being. The aims for 2030 include an aim to have "Clear strategies and innovations which place Clackmannanshire in a leading role in meeting climate challenge" while climate change work constitute a key facet of the theme of Sustainable Inclusive Growth.

The Statement of Corporate priorities (<https://www.clacks.gov.uk/document/meeting/1/1201/7697.pdf>) includes the following:

A revised Risk Strategy was approved in Oct-23 expanding categories to include Environment (previously Finance, Legal, Health & Safety, Reputation, Continuity)

- See Appendices A (Appetite Statement) & B (Guidance, including impact scoring & Governance Checklist) - <https://www.clacks.gov.uk/document/meeting/1/1201/7699.pdf>

- Internal Corporate Risk & Integrity Forum attended by Development Senior Manager, providing quarterly updates on Energy, Sustainability & Climate Change

- Corporate Risk Register includes 2 climate-related risks - Continued Contribution to Climate Change and Failure to Prepare for Severe Weather Events -

<https://www.clacks.gov.uk/document/meeting/295/1210/7785.pdf>

- Plans, reports, press releases & updates included in Public Performance Reporting web pages (see also Council & Transformation in right-hand menu) - <https://www.clacks.gov.uk/council/performance/>

Under the draft Climate Change Strategy, the Council has proactively established a Climate Emergency Action Plan that details specific strategies for both mitigating and adapting to climate change. Oversight of these initiatives is provided by the Climate Emergency Board, ensuring alignment with broader objectives and accountability. Meanwhile, the Climate Emergency Working Group is responsible for implementing these strategies on the ground, driving tangible progress towards enhancing resilience and reducing greenhouse gas emissions. This comprehensive approach reflects the body's commitment to addressing the challenges posed by climate change effectively.

The Council's General Services Revenue and Capital Budget 2023/24 was published in March 2023 and sets out the Councils' capital programme to invest £236 million in the area over the next 20 years. The ambitious plan will deliver a new wellbeing hub, improvements to our schools, significant economic regeneration and will play a key role in the journey towards net zero.

In setting the General Service Revenue Budget 2023/24, the Council faced huge challenges such as the effects of inflation, wage increases, escalating energy costs and economic headwinds and made difficult decisions in order to comply with the legal obligation to balance it's budget. The Council agreed a target operating model in August 2023 places the needs of residents, communities and businesses at the heart of Council decision-making and resilience and financial sustainability over the coming years.

The General Services Revenue and Capital Budget 2023/24 is available here [7557.pdf](#) ([clacks.gov.uk](https://www.clacks.gov.uk)) with Investment in Net Zero capital projects shown on page 68.

The General Capital Grant allocated to Clackmannanshire Council in 2023/24 was £4.351m, this is augmented by additional specific grant income streams totalling £3.296m, resulting in total grant income of £7.647m being available in 2023/24. The £3.296m includes specific capital grant funding for Clackmannan Regeneration (£0.568m), Play Parks, (£0.118m), City Region Deal Grant (£0.061m) and Active Travel Routes (1.400m).

[illegible]

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.

Clackmannanshire Council approved the development of a Climate Change Strategy on August 2022 which incorporated the council's net zero targets (2040) and an area wide target of 2045.
<https://www.clacks.gov.uk/environment/climatechange/>

During 2023/24 a Strategic Environmental Assessment was carried out on the draft Climate Change Strategy. Final consultation on the draft strategy is scheduled for August/September 2024, with the finalised document scheduled to be presented to Council on 30 November 2024 for approval.

During 2023/24, the council further developed the Climate Emergency Action Plan which outlines the council's priorities for adaptation and mitigation.

On the 30th November council approved our Regional Energy Masterplan (REM) <https://www.clacks.gov.uk/document/meeting/1/1202/7738.pdf> and Local Heat and Energy Efficiency Strategy (LHEES) which is incorporated within the masterplan. During 2023/24 the council's Energy and Sustainability Team liaised with the Scottish Government's Heat Network Support Unit to develop a funding bid for financial support to create a full business case for the development of a local heat network. N.B. the funding bid was submitted but unfortunately the government funding was no longer available. During 2024/25, the Energy and Sustainability Team will work with The Heat Network Support Unit to progress our funding bid for when the Scottish Government announce new funding. The following provides a link to the REM:
<https://www.clacks.gov.uk/document/meeting/1/1202/7738.pdf>

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	Climate Change Strategy	https://www.clacks.gov.uk/document/7146.pdf	2024-2045	<p>This Strategy sets out a framework for achieving net zero greenhouse gas emissions by 2040 at the latest for the Council's own operations and by 2045 at the latest for the Clackmannanshire area.</p> <p>It includes means of aligning all strategic decisions, budgets and approaches to planning decisions with a shift to net zero greenhouse gas emissions in addition identifying emission reduction opportunities to initiate the development of a thematically based Climate Emergency Action Plan. The strategy consists of the following 6 themes:</p> <ul style="list-style-type: none"> • Energy, Heat & Buildings • Low Carbon Transport • Waste, Recycling & the Circular Economy • Biodiversity, Carbon Storage & Agriculture • Adaptation, Planning & Organisational Capacity • Economic Development & Sustainable Procurement
Business travel	Local Transport Strategy	https://www.clacks.gov.uk/transport/localtransportstrategy/	January 2020: 5 year review period	<p>The Local Transport Strategy</p> <ul style="list-style-type: none"> • VISION: Facilitate the free and equitable movement of people and goods within Clackmannanshire by a choice of modes that are safe, accessible and well integrated. Through the development of the transport network in a sustainable manner to meet the needs of all, Clackmannanshire can become an attractive vibrant community encouraging economic prosperity whilst improving health and protecting the environment. • The LTS describes how Roads Services co-ordinates its approach to include its own and external guidance and policy; how it carried out its SEA on a raft of policy documents that inform the LTS and how it gathers funding from Government bodies by meeting their stringent environmental and sustainability criteria. • The Strategic Environmental Assessment of the Local Transport Strategy has been undertaken to identify, describe and evaluate any significant effects and alternatives. Any potential impacts as a result of the Local Transport Strategy have been identified, assessed and where possible mitigated. The transport team are scheduling update to this strategy for 24/25.

Staff Travel	Council Travel Plan	https://www.clacks.gov.uk/transport/counciltravelplan/	January 2020 - 3 year review period	<p>The Plan looks at the wider Council operations with the same outcome as the Kilncraigs Travel Plan. The Council have successfully introduced a pool car scheme, which has substantially reduced the number of grey fleet miles undertaken by staff.</p> <p>In 2022/23 there were 31 electric vehicles in the fleet. Budget cuts in the vehicle replacement programme will see a much reduced vehicle replacement plan over the next three financial years. Electric and alternative fuelled vehicles will still be identified and supplied where applicable, however the speed of adoption will be vastly reduced. There are more than 135 members of staff registered to use the pool vehicles. We have recently took on a active travel project manager. their role is to further encourage sustainable travel. The council hopes to expand on its electric fleet vehicles. EV charging infrastructure</p>
Energy efficiency	Local Housing Strategy (2012)	https://www.clacks.gov.uk/housing/localhousingstrategy/ Associated with the Statement of Corporate Priorities - https://www.clacks.gov.uk/document/meeting/1/1201/7697.pdf	Ongoing	<p>Government's objectives of tackling poverty and inequality, creating and supporting jobs, meeting energy efficiency and decarbonisation aims as well as delivery of fuel poverty and child poverty targets, and creating connected, cohesive communities.</p> <p>The LHS is due for revision in 2024/25, Housing to 2040 states that 'to lead by example, we will aim for all new homes delivered by Registered Social Landlords and local authorities to be zero emissions homes by 2026. This will mean accelerating the introduction of zero emissions heating systems ahead of the 2024 regulations coming into force and making greater use of offsite construction in the social rented sector to deliver high-quality and energy-efficient homes. This will feature in the new LHS as part of the section on energy efficiency.</p> <p>LHS Outcome Energy efficiency is improved and fuel poverty and carbon emissions are reduced across all tenures. · Continue to maximise funding from Government and utility company initiatives to help households improve the energy efficiency of their home · Continue to provide match funding where possible, to maximise income · Maximise funding from energy providers to increase renewable energy use across all housing, such as solar panels and air</p>
Fleet transport	Fleet Asset Management Plan	See annex 9	2013-2018 (update is currently being developed)	<p>maximises value for money, is environmentally and energy efficient and contributes directly to delivering year on year reductions in greenhouse gas emissions.</p> <p>For 23/24 the above statement is still valid and covers primarily what Fleet are striving to achieve. I would also include the on-going commitment to introducing more electric vehicles and charging infrastructure in line with Scottish Government net zero targets.</p> <p>The introduction and full use of vehicle telematics has seen an improvement in vehicle idling, although fairly small we continue to work with user departments on the education of all drivers.</p> <p>Work is continuing to identify areas of fleet that can easily be moved to electric / alternative fuelled vehicles. We have seen investment in hybrid technology in the fleet and all vehicles purchased that are not electric or hybrid variants are bought with the latest Euro Emissions standards for Diesel fuelled vehicles. Investment in alternative fuels for diesel driven vehicles is also being considered to further reduce vehicle borne CO2 levels across the fleet.</p> <p>Budget cuts in the vehicle replacement programme will see a much reduced vehicle replacement plan over the next three</p>

					<p>On 18 April 2019, the Council adopted the Digital Strategy 2019-25, a key part of the Be the Future transformation programme. Regular updates are provided to the Strategic Oversight Group and Council. Key priorities include:</p> <ul style="list-style-type: none"> - Transitioning from legacy systems to Microsoft 365 - Migrating to cloud-based services - Implementing digital and data-first approaches, including IoT and automation <p>IoT devices have been installed in schools to monitor air quality, aiming to support smarter buildings and optimise heating. The rollout of M365 continues, facilitating electronic collaboration and reducing the need for travel, transport, and heated meeting spaces.</p> <p>Our digital ambitions guide our IT strategy, aligning with the Future Ways of Working Programme to develop modern work practices as part of our building back better approach. The strategy aims to "use ICT to enable modern, smarter ways of working, enhancing the Council's ability to serve its citizens while reducing environmental impact." It also commits to "improving sustainability," reducing energy consumption, and reusing equipment where possible.</p>
ICT	Digital Strategy - Enhancing Digital Foundations 2019-2025	https://www.clacks.gov.uk/document/meeting/1/859/6304.pdf	2019-2025		
Renewable energy	Local Development Plan	https://www.clacks.gov.uk/property/ldpadopted/	2015/17 - the plan should be reviewed every 5 years, however, following the adoption of National Planning Framework 4 in February 2023, and Local Development Plan guidance in May 2023, the Council now have until May 2028 to produce a new Local Development Plan. Early stages of plan preparation are underway, in respect of public consultation and preapring Evidence Report.	<p>The Clackmannanshire Local Development Plan includes policies on renewable energy.</p> <p>Housing</p> <p>SC5 Layout and Design Principles</p> <p>SC7 Energy Efficiency and Low Carbon Development</p> <p>Services</p> <p>SC11 Transport Networks</p> <p>SC13 Decentralised Energy</p> <p>SC14 Renewable Energy</p> <p>SC15 Wind Energy Development</p> <p>SC16 Hydro-electricity Development</p> <p>SC17 Biomass</p> <p>SC18 Large Solar Arrays</p> <p>SC19 Deep Geothermal</p> <p>Business and Employment</p> <p>EP6 Green Business</p> <p>Supplementary Guidance:</p> <p>SG2 Onshore Wind Energy</p>	
Sustainable/renewable heat	Local Development Plan	https://www.clacks.gov.uk/property/ldpadopted/	2015-2035	<p>The Clackmannanshire Local Development Plan includes a policy on decentralised energy, which includes district heating. Clackmannanshire Council has taken part in the Heat Network Partnership for Scotland's Local Authority District Heating Strategy Programme, and has undertaken work with Zero waste Scotland towards developing an energy masterplan.</p>	

					<p>consistent and supportive Waste Service for the people of Clackmannanshire. The Policy helps support a more circular economy by developing a more efficient service with increased quality and quantity of recycling collected.</p> <p>The Service aims to:-</p> <ul style="list-style-type: none"> Improve our household waste and recycling services to maximise the capture of, and improve the quality of, resources from the waste stream, recognising the variations in household types and geography to endeavour that our services meet the needs of all residents. Encourage and work with residents to actively participate in recycling and utilise fully the services provided. Operate our services so that our staff are safe, competent and treated fairly with the skills required to deliver effective and efficient resource management on behalf of our communities. Deliver a high quality, reliable, consistent & responsive customer service that meets the needs and aspirations of the people of Clackmannanshire. <p>In the journey towards meeting our national recycling targets 2025 and contributing</p>
Waste management	Household Waste & Recycling Collection Policy October 2023	https://www.clacks.gov.uk/document/6540.pdf	2023-current		
Water and sewerage	Local Flood Risk Management Strategy	https://www.stirling.gov.uk/planning-building-the-environment/flooding/flood-risk-management-plan/	2022-2028 (6 year review period)	<p>Clackmannanshire produced in partnership with SEPA, Scottish water and other responsible authorities Explains what we are doing and how we propose to address the impacts of flooding locally.</p> <p>The Local FRMP provides a 6 year action plan of flood mitigation projects and initiatives; these include;</p> <ul style="list-style-type: none"> Natural Flood Risk Management, Infrastructure projects, Community resilience in partnership with local communities, schools etc. Awareness raising, Protection then Resilience we promote the use of sustainable drainage as part of our development control consultation responses where these elements can have multiple benefits for the environment and community enhancement and wellbeing. <p>To meet our duties / actions under the cycle 2 (2022-28) LFRMP for The Forth LPD continued to support the 5 community resilience groups (in Menstrie, Tillicoultry, Alva, Dollar and Muckhart); The council has committed to its funding share of a flood protection scheme in Tillicoultry, however due to a current hold on Government flood scheme funding, the intended scheme for Tillicoultry is unlikely to proceed until at least cycle 3 of the LFRMP (2028-34); we continue to engage the Community Payback Team to carry out cyclical inspections and clearance of key</p>	
Land Use	Local Development Plan	https://www.clacks.gov.uk/property/ldpadopted/	2015/17 - the plan should be reviewed every 5 years, however, following the adoption of National Planning Framework 4 in February 2023, and Local Development Plan guidance in May 2023, the Council now have until May 2028 to produce a new Local Development Plan. Early stages of plan preparation are underway, in respect of public consultation and preapring Evidence Report.	Strategic environmental assessment was used in the preparation of the Local Development Plan to ensure that the plan and its policies contribute to reducing greenhouse gas emissions and climate change adaptation. SEA will be used again in the preparation of the new LDP.	
Other (please specify in comments)	Roads & Transportation (RAT) Risk Register • RAT RAT 013 Impact of Adverse Weather (Winter & Flooding)	https://www.clacks.gov.uk/document/3832.pdf	Nov 2019 - annual review	WATER RAT 013 Impact of Adverse Weather (Winter & Flooding).	
Adaptation	Corporate Risk Management Strategy	https://www.clacks.gov.uk/document/meeting/1/1201/7699.pdf	2023-28 (appendices reviewed annually)	Environment is key category in Appetite Statement (pg 17), Guidance (pg 20) & Governance Checklist (pg 23)	

Energy efficiency	Regional Energy Masterplan (REM) & Local Heat and Energy Efficiency Strategy (LHEES)	https://www.clacks.gov.uk/document/meeting/1/1202/7738.pdf	2023-2045	This document outlines the steps required to reach a net-zero energy system across Stirling and Clackmannanshire, with specific objectives and outcomes set out, and key performance indicators (KPIs) to monitor progress identified. The document also incorporates the council's LHEES.
Adaptation	Local Development Plan	https://www.clacks.gov.uk/property/ldpadopted/	2015/17 - the plan should be reviewed every 5 years, however, following the adoption of National Planning Framework 4 in February 2023, and Local Development Plan guidance in May 2023, the Council now have until May 2028 to produce a new Local Development Plan. Early stages of plan preparation are underway, in respect of public consultation and preparing Evidence Report.	<p>Environmental Sustainability</p> <p>To deliver a sustainable pattern of development that supports community cohesion, reduces greenhouse gas emissions, supports waste minimisation and ensures that new development consistently contributes to environmental protection and enhancement by:</p> <ul style="list-style-type: none"> · ensuring that new development does not result in growth in Clackmannanshire's net greenhouse gas emissions; · minimising release of greenhouse gas emissions from natural sources including protection of carbon-rich soils, minimising waste and encouraging woodland expansion where appropriate; · delivering a step change towards improved energy and water conservation and efficiency, and increasing the production of renewable energy to meet Government targets; · adapting to the impacts of climate change by ensuring that new development is appropriately 'climate proofed' to remain resilient to predicted future climatic conditions, and to protect existing development from the adverse effects of climate change; · reducing overall flood risk and promoting sustainable flood management techniques; · managing and reducing pollution, to contribute to the improvement of our air and water quality; · safeguarding soil quality and quantity; · minimising our waste and maximising opportunities for
Energy efficiency	Local Development Plan	https://www.clacks.gov.uk/property/ldpadopted/	2015/17 - the plan should be reviewed every 5 years, however, following the adoption of National Planning Framework 4 in February 2023, and Local Development Plan guidance in May 2023, the Council now have until May 2028 to produce a new Local Development Plan. Early stages of plan preparation are underway, in respect of public consultation and preparing Evidence Report.	<p>Policies</p> <p>Housing</p> <p>SC7 Energy Efficiency and Low Carbon</p> <p>Services</p> <p>SC13 Decentralised Energy</p> <p>SC14 Renewable Energy</p> <p>SC15 Wind Energy Development</p> <p>SC16 Hydro-electricity Development</p> <p>SC17 Biomass</p> <p>SC18 Large Solar Arrays</p> <p>SC19 Deep Geothermal</p> <p>Supplementary Guidance:</p> <p>SG7 Energy Efficiency and Low Carbon Development</p>
Business travel	Council Travel Plan	https://www.clacks.gov.uk/document/2906.pdf Please note this was updated in 2018/19 but still requires to be approved by Council	January 2020 - 5 year review period	The Road Traffic Reduction Report sets out targets to reduce existing levels of traffic or the rate at which traffic is growing within Clackmannanshire.

					<p>The Council Travel Plan and Kilncraigs Travel Plan: Clackmannanshire Council as a local authority has a responsibility to lead by example, in order to encourage local businesses and residents to adopt a sustainable approach to travel. The Council has developed a travel plan for all Council staff and visitors as part of the relocation to Kilncraigs.</p> <p>The Kilncraigs Travel Plan has a simple target which is to reduce the number of vehicles coming to Kilncraigs by encouraging modal shift to active travel.</p> <p>Staff travel surveys are continually undertaken to assess attitudes of staff to options for travel plans. The results are available to download from the documents and publications section below.</p> <p>A number of measures have been introduced to encourage staff and visitors to travel by more sustainable modes. Complete review required to commence 24/25 with a view to improving infrastructure and staff incentives. The council's newly appointed Active Travel Manager will lead on this.</p>
Staff Travel	Kilncraigs Travel Plan	See annex 10		January 2020 - 3 year review period	
Staff Travel	Active Travel (Cycling) Action Plan	https://www.clacks.gov.uk/transport/friendlyroads/		Development in 2018/19 and currently being implemented	The Council's strategy to get more people walking and cycling for work journeys and leisure with the twin aims of reduction in vehicle journeys and increase in health. This will have a beneficial impact on air quality and decrease car borne pollutants. The current Connected Clackmannanshire Strategy will be expanded to a full regional active travel strategy commencing 24/25. This will identify future active travel routes and prioritise these for future delivery.
Water and sewerage	Surface Water Management Plan SWMP	See annex 8		2018/2021 update being worked on	The SWMP for Clackmannanshire (February 2019) has been agreed with SEPA and Roads & Transportation Services and is aimed at reducing surface water flood risks in the top six prioritised Hot Spot Areas identified by the study. We are to procure detailed SWMPs for our top three identified areas at present (1 in Central Tillicoultry and 2 in Alva). Work ongoing.
Business travel	Transport and Environment Report	https://www.clacks.gov.uk/document/2905.pdf Note this was updated in 2018/19 but still requires to be approved by the Council.		January 2020 - 5 year review period	The Transport and Environment Report sets out the key aims to protect and enhance the environment with regard to transport. It details how the Council's activities can be adapted to minimise impact on the environment and to help reduce the impacts and effects of climate change. We must plan positively for the community's social and economic needs whilst facilitating access both to our built environment and to the countryside for recreation and tourism but always in a way that safeguards and enhances the environment. This report is the link between the LTS and SEA and is subject to review as part of the LTS process.
Other (please specify in comments)	Climate Emergency Action Plan	See Annex 1		2024-2045	This plan outlines the actions required to be carried out by responsible services in the council's efforts to achieve net zero by the 2040 & 2045 targets. Actions contained within the CEAP follow the 6 themes outlined in the Climate Change Strategy: <ul style="list-style-type: none"> • Energy, Heat & Buildings • Low Carbon Transport • Waste, Recycling & the Circular Economy • Biodiversity, Carbon Storage & Agriculture • Adaptation, Planning & Organisational Capacity • Economic Development & Sustainable Procurement
Business travel	Roads Asset Management Plan	See annex 6		April 2019 - Annual Review	This Plan describes the Council's largest asset and how it is managed in a sustainable manner. The plan was due to be updated and reworked in line with the latest SCOTS National Guidance in 2022, however lack of resources has resulted in this being postponed and due for completion in 24/25.

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.

- 278

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.

No

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.

Sustainability, including climate risk, has a more prominent place in the revised Business Planning Guidance (<https://www.clacks.gov.uk/document/meeting/266/1093/7114.pdf>). The Climate Emergency Working Group's responsible services carry out actions within the Climate Emergency Action plan and reports to the Climate Emergency Board. Clackmannanshire Council is currently in the process of establishing a Strategic Energy Working Group to carry out actions and monitor KPIs within the Regional Energy Masterplan.

Public Sector Report on Compliance with Climate Change Duties 2024 Template V9

PART 3Corporate Emissions, Targets and Project Data

Emissions

Exemptions from the start of the year which the body uses as a baseline (for its carbon footprint) to the end of the report year

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

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

(b) This refers to "The greenhouse gas protocol. A corporate accounting and reporting standard (revised edition)", World Business Council for Sustainable Development, Geneva, Switzerland / World Resources Institute, Washington DC, USA (2004). ISBN: 1-55973-588-3.

SELECT APPROPRIATE BASELINE YEAR. TOTAL EMISSIONS IN THIS MOST RECENT FOOTPRINT YEAR IN THIS QUESTION SHOULD EQUAL TOTAL EMISSIONS IN Q10

Baseline year	Year	Year type	Scope 1	Scope 2	Scope 3	Total	Units	Comments
Baseline Year	2013/14	Financial	3,623.00	5,902.00	242.00	9,767.00	CO ₂ e	Scope 1 represents Emissions from Gas, LPG, Fuel Oil, Diesel Petrol and Biomass
Year 1 carbon footprint	2014/15	Financial	3,846.00	5,581.00	270.00	9,700.00	CO ₂ e	Scope 2 represents Emissions from Grid Electricity
Year 2 carbon footprint	2015/16	Financial	5,702.00	5,027.00	084.00	10,813.00	CO ₂ e	Scope 3 represents Emissions from Water, Waste Treatment, Waste Vehicle Storage Claims and Grid Electricity (Transmission and Distribution)
Year 3 carbon footprint	2016/17	Financial	9,994.00	4,426.00	023.00	14,443.00	CO ₂ e	Utility figures collated from invoices
Year 4 carbon footprint	2017/18	Financial	3,640.00	3,099.00	502.00	7,241.00	CO ₂ e	Discovered by Councils 10 and 11 software systems Link
Year 5 carbon footprint	2018/19	Financial	3,443.00	2,443.00	421.00	6,307.00	CO ₂ e	
Year 6 carbon footprint	2019/20	Financial	3,688.00	2,139.00	370.00	6,197.00	CO ₂ e	
Year 7 carbon footprint	2020/21	Financial	3,127.00	1,463.00	246.00	4,836.00	CO ₂ e	
Year 8 carbon footprint	2021/22	Financial	3,059.00	1,400.00	220.00	4,679.00	CO ₂ e	
Year 9 carbon footprint	2022/23	Financial	3,143.00	1,400.00	173.00	4,716.00	CO ₂ e	
Year 10 carbon footprint	2023/24	Financial	3,073.29	1,777.41	6,100.41	11,011.11	CO ₂ e	Utility figures have been included in this year's report whereas this data was included in previous years (except for 21/22)
Year 11 carbon footprint		Financial					CO ₂ e	
Year 12 carbon footprint		Financial					CO ₂ e	
Year 13 carbon footprint		Financial					CO ₂ e	
Year 14 carbon footprint		Financial					CO ₂ e	
Year 15 carbon footprint		Financial					CO ₂ e	
Year 16 carbon footprint		Financial					CO ₂ e	
Year 17 carbon footprint		Financial					CO ₂ e	
Year 18 carbon footprint		Financial					CO ₂ e	
Year 19 carbon footprint		Financial					CO ₂ e	
Year 20 carbon footprint		Financial					CO ₂ e	

Breakdown of emissions sources

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

Complete the following table with the breakdown of emissions sources from the body's most recent carbon footprint (greenhouse gas inventory). This should correspond to the last entry in the table in Q4 above. Use the 'Comments' column to explain what is included within each category of emissions source entered in the first column. If there is no data consumption available for an emissions source enter the emissions in kgCO₂e in the 'Consumption' column of one of the 'Other' rows and assign the scope and an emission factor of 1.

(a) Emissions factors are published annually by the UK Department for Energy Security & Net Zero

Enter

You use filter emissions sources by 'Type' in column 1 to enable quicker selection of emissions sources in column 2. See the list in the Emissions Tab.

User defined emissions sources can be entered in rows 1-31 onwards. Please only use those if you cannot find a relevant emission source in the dropdown list or you have a baseline emission factor or non-standard derivation of emissions e.g. based on a survey/consumption data. If you require extra rows in the table please use the template to create additional tabs.

Emission Type	Emissions source	Consumption data	Units	Emission factor	Units	Emissions (CO ₂ e)	Comments
Gas	Natural gas	Scope 1	11,589.117 kWh	0.185933 kg CO ₂ e/kWh	0.185933 kg CO ₂ e/kWh	2133.80747	Increased Gas usage in Public Buildings
Gas	LPG	Scope 1	89.054 kWh	0.211992 kg CO ₂ e/kWh	0.211992 kg CO ₂ e/kWh	18.87244	School
Gas	Petrol	Scope 1	146.830 kWh	0.888933 kg CO ₂ e/kWh	0.888933 kg CO ₂ e/kWh	130.1666	Increased Fuel Oil usage at Fortthorpe plus
Biomass	Wood pellets	Scope 1	94 tonnes	11.581302 kg CO ₂ e/tonne	11.581302 kg CO ₂ e/tonne	4.85126	Fuel for machinery
Gas	Other (average baseline factor)	Scope 2	200.118 tonnes	2.31088 kg CO ₂ e/tonne	2.31088 kg CO ₂ e/tonne	459.51618	Increased petrol usage at Redwell P & S
Electricity	Electricity UK	Scope 2	9,363.064 kWh	0.287077 kg CO ₂ e/kWh	0.287077 kg CO ₂ e/kWh	2687.45476	Increased Electricity usage in Public Buildings and Street lighting (SGL)
Electricity	Transmission and distribution - Electricity UK	Scope 2	9,363.064 kWh	0.007793 kg CO ₂ e/kWh	0.007793 kg CO ₂ e/kWh	73.07737	Increased Diesel usage in Public Buildings based on 95% of water consumption
Water	Water supply	Scope 3	84.063 cubic metres	0.100000 kg CO ₂ e/cubic metres	0.100000 kg CO ₂ e/cubic metres	8.40630	Increased Electricity usage in Public Buildings and Street lighting (SGL)
Water	Water treatment	Scope 3	80.715 cubic metres	0.100000 kg CO ₂ e/cubic metres	0.100000 kg CO ₂ e/cubic metres	8.07150	Increased Diesel usage in Public Buildings based on 95% of water consumption
Transport - car	Average car - unknown	Scope 3	501.180 km	0.188966 kg CO ₂ e/km	0.188966 kg CO ₂ e/km	95.51585	Council Employee mileage claims
Gas	Petrol (average baseline factor)	Scope 1	4.474 litres	2.087497 kg CO ₂ e/litre	2.087497 kg CO ₂ e/litre	9.34040	Petrol usage from Council Fleet Services (for Transport use / fuel)
Plastic	Household (National Domestic waste - landfill)	Scope 3	11.246 tonnes	897.88473 kg CO ₂ e/tonne	897.88473 kg CO ₂ e/tonne	10098.49246	Data received from SRA -
Waste	Mixed dry recyclables - Recycled	Scope 3	12.303 tonnes	71.380851 kg CO ₂ e/tonne	71.380851 kg CO ₂ e/tonne	878.1077	https://data.gov.uk/corpora/healthcare/healthcare
Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	0.00000	https://data.gov.uk/corpora/healthcare/healthcare
Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	0.00000	https://data.gov.uk/corpora/healthcare/healthcare
Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	Plastic select from drop down box	0.00000	https://data.gov.uk/corpora/healthcare/healthcare
Other	Other (please specify in comments)	Other (please specify in comments)	Other (please specify in comments)	Other (please specify in comments)	Other (please specify in comments)	0.00000	https://data.gov.uk/corpora/healthcare/healthcare
Other	Other (please specify in comments)	Other (please specify in comments)	Other (please specify in comments)	Other (please specify in comments)	Other (please specify in comments)	0.00000	https://data.gov.uk/corpora/healthcare/healthcare

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 reported by the body.

Technology	Total consumed by the body (kWh)	Renewable Electricity	Total consumed by the body (kWh)	Renewable Heat	Total consumed by the body (kWh)	Comments
Solar PV	104.115	104.115	25.871			
Wind						
Plastic select from drop down box						
Plastic select from drop down box						

Targets

Operational targets

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

Scope 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
2024 target for organisational emissions	Percentage	100% organisational emissions reduction	kg CO ₂ e reduction	All emissions	2020/21	12,226	kg CO ₂ e	2024/25	100%	Please select from drop down box
2024 target for organisational emissions	Percentage	100% organisational emissions reduction	kg CO ₂ e reduction	All emissions	2020/21	12,226	kg CO ₂ e	2024/25	100%	Please select from drop down box
2024 target for organisational emissions	Percentage	100% organisational emissions reduction	kg CO ₂ e reduction	All emissions	2020/21	12,226	kg CO ₂ e	2024/25	100%	Please select from drop down box
2024 target for organisational emissions	Percentage	100% organisational emissions reduction	kg CO ₂ e reduction	All emissions	2020/21	12,226	kg CO ₂ e	2024/25	100%	Please select from drop down box
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2024 target for organisational emissions	Percentage	100% organisational emissions reduction	kg CO ₂ e reduction	All emissions						

281

3a Estimated decrease or increase in the body's emissions attributed to factors (not reported elsewhere in this form) in the report year
If the emissions increased or decreased due to any such factor in the report year, provide an estimate of the amount and direction:

Emissions source	Total estimated annual emissions (tCO ₂ e)	Increase or decrease in emissions	Comments
			Between the period of 01/04/23 - 01/03/24 the Council sold and acquired the following assets - Sold: 10 Operational Properties, Properties the Council would occupy and consume utilities in). Acquired: 10 Operational Properties, Properties the Council would occupy and consume utilities in). Estates have sold 1 Non Operational Property (Properties leased out to non Council Tenants who pay their own utility costs). 153 West Stirling Street Area W122 3SL - Sold 20/09/24. For your information, in almost all leased out property the Council pass the responsibility for sourcing utility providers and paying the associated costs to the tenants. Non Operational Property - The Lodge Mar Place Area W122 2AB - Rented/Renewed lease to pass utility costs to the tenants from 26/07/23 - Prior to this date the previous lease included all utility costs in the monthly rent. Estates have also sold land assets but they will not be of interest to you as they did not have any utilities on site. Residue leased in 2 residential properties for
Electric charges		Please select from drop down box	
Electric 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	
Other (please specify in comments)		Please select from drop down box	
Please select from drop down box		Please select from drop down box	
Total		Please select from drop down box	

3b Anticipated annual carbon savings from all projects implemented by the body in the year ahead
If no projects are expected to be implemented against an emissions source, enter "0".
If the organisation does not have any information for an emissions source, enter "unknown".
If the organisation does not include the emissions source in its carbon footprint, enter "N/A".

Emissions source	Total estimated annual carbon savings (tCO ₂ e)	Comments
Electricity		No projects planned
Refrigerant gas		No projects planned
Other heating fuels		No projects planned
Electricity		No projects planned
Water and sewerage		No projects planned
Other		No projects planned
Other (please specify in comments)		Potential savings in CO2 with movement to W20 fuel, possible further savings in CO2 dependent on up take of full electric vehicles (budget dependent). These figures are estimated only and will rise or fall depending on vehicle numbers taking part in the trial.
Other (please specify in comments)	272	
Please select from drop down box		
Total	272	

3c Estimated decrease or increase in emissions from other sources in the year ahead
If the body's corporate emissions are likely to increase or decrease for any other reason in the year ahead, provide an estimate of the amount and direction.

Emissions source	Total estimated annual emissions (tCO ₂ e)	Increase or decrease in emissions	Comments
			Between the period of 01/04/23 - 01/03/24 the Council sold and acquired the following assets - Sold: 10 Operational Properties, Properties the Council would occupy and consume utilities in). Acquired: 10 Operational Properties, Properties the Council would occupy and consume utilities in). Estates have sold 1 Non Operational Property (Properties leased out to non Council Tenants who pay their own utility costs). 153 West Stirling Street Area W122 3SL - Sold 20/09/24. For your information, in almost all leased out property the Council pass the responsibility for sourcing utility providers and paying the associated costs to the tenants. Non Operational Property - The Lodge Mar Place Area W122 2AB - Rented/Renewed lease to pass utility costs to the tenants from 26/07/23 - Prior to this date the previous lease included all utility costs in the monthly rent. Estates have also sold land assets but they will not be of interest to you as they did not have any utilities on site. Residue leased in 2 residential properties for
Electric charges		Please select from drop down box	
Electric 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	
Other (please specify in 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	
Total		Please select from drop down box	

3d 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").

Other savings	Total estimated emissions savings (tCO ₂ e)	Comments
Total project savings since baseline year		

Further information

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.

The Road Maintenance Team has been carrying out low carbon trials including, use of electrically powered machinery and low carbon road repair treatment making an estimated 84% saving on carbon emissions.

Public Sector Report on Compliance with Climate Change Duties 2024 Template

PART 4 Adaptation - please do not include information in this part on measures that solely reduce emissions with no implications for climate adaptation. These are climate mitigation measures which should be reported in the Emissions tab.**Assessing and managing risk****4a Has the body assessed current and future climate-related risks?**

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

We have yet to complete a thorough and systematic assessment of current and future climate-related risks, but we have made steps towards this including the collation of risks from the earlier LCLIP and from the Incident Report, Resilience Plans and business plans.

Internal Corporate Risk & Integrity Forum attended by Development Senior Manager, providing quarterly updates on Energy, Sustainability & Climate Change. Climate has featured on our Corporate Risk Register since 2011, initially with a single risk focussing on both mitigation and adaptation. These areas were then separated (2015), with 'Failure to Prepare for Severe Weather Events' (Business Continuity perspective) remaining on the corporate register, and wider mitigations monitored via the (then) Enterprise & Environment Committee, and our Annual Emergency Planning Statement of Preparedness. This has recently been re-assessed, and the wider climate risk has been re-escalated to the corporate log (in addition to Severe Weather), to ensure that both areas are subject to a higher level of scrutiny by both the internal Corporate Risk & Integrity Forum and the Council's Audit Committee. When the Council considers flood risk management and specifically when it produces studies to inform flood protection schemes, it strives to build in the very latest thinking on what should be accounted for in designed solutions (structural and non-structural) to help reduce the impact of Climate Change.

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

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

The corporate risk log (<https://www.clacks.gov.uk/document/meeting/295/1210/7785.pdf>) is owned by the Strategic Leadership Group and the Director of Partnership & Performance is responsible for the corporate risk management approach. The Council follows a systematic risk process, reporting corporate and service risks to Council on a regular basis. Processes are assessed via internal and external governance and audit mechanisms, and peer-reviewed by other local authorities. Adaptation is also embedded in our proposed Local Development Plan and associated supplementary guidance.

Climate related risks are identified by the Climate Emergency Working Group's responsible services and reported to the Climate Emergency Board. Climate related risks are then managed with actions on the Climate Emergency Action Plan.

Climate has featured on our Corporate Risk Register since 2011, initially with a single risk focussing on both mitigation and adaptation. These areas were then separated (2015), with 'Failure to Prepare for Severe Weather Events' (Business Continuity perspective) remaining on the corporate register, and wider mitigations monitored via the (then) Enterprise & Environment Committee, and our Annual Emergency Planning Statement of Preparedness. This has recently been re-assessed, and the wider climate risk has been re-escalated to the corporate log (in addition to Severe Weather), to ensure that both areas are subject to a higher level of scrutiny by both the internal Corporate Risk & Integrity Forum and the Council's Audit & Scrutiny Committee.

We have also carried out risk assessments on a Tree Planting project on the slopes of the Dumyat (which is associated with the catchment at Menstrie) that was being carried out by a private developer. We had to ensure the cultivation techniques being used did not increase runoff risk, the outcome is to avoid long trenches and implement short ones.

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").

The Council has proactively established a Climate Emergency Action Plan that details specific strategies for both mitigating and adapting to climate change. Oversight of these initiatives is provided by the Climate Emergency Board, ensuring alignment with broader objectives and accountability. Meanwhile, the Climate Emergency Working Group is responsible for implementing these strategies on the ground, driving tangible progress towards enhancing resilience and reducing greenhouse gas emissions. This comprehensive approach reflects the body's commitment to addressing the challenges posed by climate change effectively.

The Council has initiated a comprehensive approach to support pollinator-friendly planting and implement a thoughtful grass-cutting regimen across significant areas of its grounds. Throughout the spring and summer months, we've partnered with community groups to leverage NatureScot funding, facilitating the development of impactful pollinator projects. Additionally, during 2023/24, our Countryside Ranger service, in collaboration with TCV and EPIC, successfully planted approximately 11,000 trees.

The Council previously agreed to promote a flood protection scheme for Tillicultry which was a recommendation of a Flood Risk Assessment Options Appraisal in 2017. This appraisal was a required action of the Council as set out by the first Local Flood Risk Management Plan for The Forth Local Development Plan 2022 – 2028. The scheme was submitted for national prioritisation to the Scottish Government in 2021/22. It will be a requirement of any prioritised scheme programmed to receive 80% funding from the Scottish Government that it must include the implementation of identified Natural Flood Management techniques as part of the scheme's delivery and that the whole scheme will require to accommodate the ability to be adaptive to the impacts of climate change.

In the 2022/23 budget review it was identified that a funding towards capital flood projects by the Scottish Government has indicated a substantial overspend on committed approved projects to an extent that threatens planned projects such as the Tillicultry Flood Prevention Scheme. Although identified in the council cap programme, the 80% allocation that must come from the Scottish Government to fund such a project is at risk hence the project proposed by the council is at risk. There has been no change to this position since last years report.

The Council continues in a successful partnership with the Forth Rivers Trust to consider where natural flood management measure could be introduced in the council area. The first site assessed was at Muckhart where the partnership included the local flood group. As of the date of this report the project was completed successfully and is to be put forward for a national environment award as demonstrating positive collaboration with the community groups and public bodies. Other catchment areas are being considered where Natural Flood Management (NFM) measures could be introduced. The Councils collaboration with Forth Rivers Trust is being extended to include The Conservation Volunteers (TCV). As a consequence, active engagement has started with key land owners with a view to developing more significant NFM measures within the River Devon catchment. This project will require close collaboration and agreement with all the community flood groups within the Hillfoots area.

The Menstrie care home and Menstrie Primary school has had improved flood guard equipment made available and the development of each project has involved each respective community flood group. In the case of Menstrie care home, the Menstrie Community Resilience Group has developed there emergency response plans to include an action to erect the flood guards when the local flood warning system (River Trak) activates on the Menstrie burn.

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

Provide any other relevant supporting information.

We continue to work with internal and external partners. We have continued to run climate change adaptation projects with Inner Forth Futures Initiative partners. Additional projects associated with widening the scope of the volunteer work and the council considers there are additional community buy in and social wellbeing benefits accrued as a result. We continue to engage with these and other partners, like the Forth Rivers Trust, to promote local flood risk management and to raise community awareness of flood risks. We also have a continuing partnership with Scottish Flood Forum and TCV to develop more community resilience groups. The Council also has an ongoing partnership with the Scottish Fire and Rescue Service to promote better links with them re FRM and Community Resilience capacity building. One key aspect of this though is that it is not easy to sustain such groups. It takes concerted effort by the council to ensure the groups receive the support they need.

Clackmannanshire Council has significantly contributed to the successful delivery of the Energy Efficiency Scotland: Area Based Scheme (EES: ABS) funded by the Scottish Government. This initiative has empowered local residents by enhancing their financial resilience and fostering greater energy independence. The insulation improvements provided through this program not only ensure warmer homes during the winter months but have also been positively noted by residents for their effectiveness in keeping homes cooler during the summer. Feedback from the community highlights the tangible benefits of enhanced comfort and reduced energy costs, demonstrating the program's impactful role in supporting sustainable living conditions and adapting to the changing climate.

The Surface Water Management Plan for Clackmannanshire (February 2019) was agreed with SEPA and Transportation Team and is working to reduce surface water flood risks in the top six prioritised Hot Spot Areas identified by the study. Due to staff shortages we have yet to procure detailed SWMPs for our top three identified areas (1 in Central Tillicultry and 2 in Alva). Site works are hoped to proceed next financial year to introduce surface water planning solution for the identified hotspot are in Alva (in Lovess Loan).

Partnership working and capacity building in existing and more recently established community resilience groups continues to be managed by the council. One aspect the council is aware of is the long term lives of the groups in terms of are they able to sustain functioning groups over a lengthy period. The council continues to value the actions of each of the groups and therefore continues to engage with the groups regularly. This continued engagement is supported by the Scottish Flood Forum, SEPA and TCV. Community groups are further being encouraged to better understand how their catchments, watercourses and drainage systems operate during adverse weather conditions. This knowledge building includes where locally known flood prone areas might be during specific rainfall event types and how best to react to them whilst also being aware that such community groups are not required to directly manage responses to weather events. Such knowledge, and knowledge of how events will be exacerbated by climate change, means the groups are better able to prepare their communities, including vulnerable residents, to react to and recover more quickly from such events.

Area wide plan of the Forth area including Stirling, Falkirk Clackmannanshire produced in partnership with SEPA and Scottish water.

The Local FRMP provides a 6 year action plan of flood mitigation projects and initiatives; these include;

- Natural Flood Risk Management,
- Infrastructure projects,
- Community resilience in partnership with local communities, schools etc.
- Awareness raising,
- Protection then Resilience
- Working with Scottish Water to provide sustainable SUDs schemes at new developments and to make existing SUDs schemes more sustainable. (note: this should be all as the previously set out wording here as per page 19)

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).

The Council employs a comprehensive framework to assess and manage both existing and emerging climate risks. This framework involves a systematic risk management process that routinely reports corporate and service risks to the Council. The evaluation and oversight of these processes are conducted through a combination of internal and external governance structures, as well as audit mechanisms, ensuring a high level of accountability. The Corporate Risk and Integrity Forum is held quarterly. Additionally, peer reviews conducted by neighbouring local authorities further enhance the rigor of our assessments.

To ensure a proactive approach, climate risks are continually revisited as part of the Climate Emergency Action Plan (CEAP) initiatives, the Key Performance Indicators (KPIs) outlined in the Regional Energy Masterplan, and the five-year review of the Climate Change Strategy. Actions within the CEAP are reviewed continually by the Climate Emergency Working Group who meet quarterly. These arrangements enable the Council to stay ahead of climate-related challenges, adapting our strategies and responses to safeguard our community's resilience in the face of climate change.

Transportation staff have worked with Sustainability and with The Conservation Volunteers and the Local Flood / Resilience Groups along the Hillfoots to develop a network of Flood Risk Monitor volunteers to monitor key choke points in watercourses to enhance community flood resilience and we have developed this model further in order to encompass invasive species on the selected watercourses in addition to choke points.

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).

The council monitors and evaluates the impact of adaptation actions within the Climate Emergency Action Plan (CEAP), the Climate Emergency Board (CEB) who meet quarterly and through systematic reporting mechanisms.

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.

1. Complete a Strategic Environmental Assessment of our Climate Change Strategy and submit to Council for approval. This document incorporates our Climate Emergency Action Plan (CEAP) which has specific actions associated with adaptation. See Annex 1 [to insert link to SEA and Climate Change Strategy on clacks website once approved by Council]

2. Obtain Council approval for our Pollinator strategy. This document contains our Pollinator Action Plan which includes specific actions associated with adaptation [to insert link to Pollinator Strategy once approved by Council]

3. Continue to work with communities and partner organisations on local flood risk management (partnership projects education, volunteers and networking). Continue to operate and develop the network group which was established by the council as a forum for all the flood groups in the area as well as the relevant responsible bodies, e.g. SEPA, Police, Scottish Fire and Rescue Service and Scottish Water. See Annex 2

4. Working in partnership with the Scottish International Environment Centre (SIEC), Falkirk Council, Stirling Council and other key stakeholders to deliver the Forth Climate Forest (the planting of 16.4 million new trees across 8,300 hectares within the next 10 years) and gather data about climate impacts as they affect Clackmannanshire.

5. To help community enterprises, social enterprises and co-operatives to setup, grow and diversify in line with our climate change adaptation priorities by providing financial support via the Co-operative & Social Enterprise Fund.

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.

As with previous years, there are a number of policies and proposals in the Adaptation Programme where local authorities are actively engaged but are not listed as delivery agents in the Programme. In particular, Clackmannanshire Council considers that it contributes to:

N1-9 (supporting citizen science and voluntary environmental monitoring) by working with the Clackmannanshire Biodiversity Partnership and partners in the Inner Forth Landscape Initiative in support of environmental recording and volunteer engagement, and also the TCV/Hillfoots volunteer river monitor project on which work started in FY 2016-17. Transportation staff have worked with Sustainability and with the Conservation Volunteers to develop a network of Flood Risk Monitor volunteers to monitor key choke points in watercourses to enhance community flood resilience and we have developed this model further in order to encompass invasive species on the selected watercourses in addition to choke points. Further enhanced by the above and additional projects associated with widening the scope of the volunteer work and the council considers there are additional community buy in accrued as a result. We continue to engage with these and other partners to promote flood risk management and community awareness. We also have a continuing partnership with SFF/TCV to develop community resilience groups. The Council also has an ongoing partnership with the SFRS to promote better links with them re FRM and Community Resilience capacity building.

N2-4 (manage designated sites for land based biodiversity) by conducting an ongoing review of Local Nature Conservation Sites with a view to ensuring appropriate management; ongoing

N2-7 (reduce the pressure on ecosystems from invasive non-native species (INNS) by working with Inner Forth Landscape Initiative partners to develop better understanding of the spread of invasive non-native species at a landscape level. This work was being developed in 2017/18, however, due to reducing resources we have been unable to progress this area of work in 2018/19, however, it is envisaged that under the new Council structure that this area of work will be able to be revisited and resources made available to incorporate this work into part of our flood risk management tasks. N.B. Clackmannanshire Council are presently working with TCV and local Volunteers to help tackle INNS and work has recommenced with the IFL to take problem areas.

N2-9 (implement the Scottish Biodiversity Strategy) by supporting an active Biodiversity Partnership to deliver the Clackmannanshire Local Biodiversity Action Plan (CBAP) in support of the Scottish strategy, with stronger emphasis on climate change following review and extension of the 2012-17 CBAP to 2020; ongoing

S2-5 (Develop and promote resources which support capacity building in communities, to help build resilience to emergencies, including responding to severe weather events) Flood resilience Groups have been established to increase community resilience in Tillicoultry and Menzies. These communities are now prepared to deal with significant weather events (flood being the most common risk to consider) Local Flood warning systems are linked to their community emergency response plans. Regular meetings with the Council, the local Flood resilience Groups, SEPA, Scottish Fire Rescue Service and Scottish Water take place which helps to solidifies the partnership. Transportation staff have also worked with Sustainability and with the Conservation Volunteers to develop a network of Flood Risk Monitor volunteers to monitor key choke points in watercourses to enhance community flood resilience and we have developed this model further in order to encompass invasive species on the selected watercourses in addition to choke points.

With regard to S3-1 (NHS Scotland boards to develop individual climate change adaptation plans), with the integration of health and social care initiated in 2014-15, this is an issue on which local authorities and NHS boards need to work together. We are working with the NHS Forth Valley, Stirling Council and Falkirk Council to identify potential areas for partnership working however, resource limitations has hindered progress

Clackmannanshire Council has taken significant steps either as specific climate adaptation measures or as part of broader good practice including using our experience of the impacts of flooding on vulnerable groups informs our work on flood risk management; and carrying out presentations to staff groups and community planning partners.

Provision of guidance and information in our Local Development Plan. Information included:

- Business and Employment
- EP6 Green Business
- Clackmannanshire Green Network

Public Sector Report on Compliance with Climate Change Duties 2024 Template

PART 5 Procurement

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

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

As per the Council Contract Standing orders (<https://www.clacks.gov.uk/business/contractstandingorders/>) we have adopted the National Procurement Journey (<https://www.procurementjourney.scot/>) as the Council Procurement Policy and our Corporate Procurement process. (<https://www.clacks.gov.uk/business/corporateprocurementprocess/>) Public procurement law and policy already reflects environmental considerations principally through the sustainable procurement duty of the Procurement Reform (Scotland) Act 2014. (<https://www.gov.scot/publications/procurement-reform-scotland-act-2014-statutory-guidance/>)

It requires the Council to consider and act on opportunities to achieve socio-economic and environmental benefits in the course of our procurements.

The Council undertakes this on a number of levels

As part of that process the Sustainable Procurement Duty is built into the Council's tender authorisation forms which must be completed by the Contract Responsible Officer, before any tender process commences. (<https://www.clacks.gov.uk/site/documents/procurement/corporateprocurementprocess/>)

A commodity/service strategy is required for all Council regulated procurements. The commodity/service strategy however should be proportionate to risk, value and strategic importance of the commodity/service to the organisation. Consideration must also be given to Planning, Sustainable Procurement (including Fair Work practices and Climate Change considerations) and Risk Management.

The profiling the commodity/service stage assist the Council officers to:

Understand and scope requirements to help ensure that they achieve the optimum combination of whole life costs and quality to meet the end user(s) requirement.

Use a sustainability test to help maximise the positive impact the procurement process can provide in terms of social, economic and environmental impact associated with the requirement.

The Single Procurement Document (Scotland) ("SPD") (<https://www.publiccontractscotland.gov.uk/helpandresources/download/e303d9ed-51d9-47d0-84e0-a47301b0359e>) is the standard questionnaire that potential bidders complete which allows the Council to identify suitably qualified and experienced bidders for all our regulated procurements. Specifically question 4C7 allows procurement officers to ask bidders to provide evidence of capability to address the climate emergency in the form of a Bidder Climate Change Plan Template at the selection stage of a procurement exercise.

The Council prepares an Annual Procurement Report which includes a demonstrable alignment between procurement activity and the organisation's Procurement Strategy, including compliance with the Sustainable Procurement Duty.

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.

The Procurement Strategy Action Plan contains measures to:

- Establish systems to record the impact of procurement policies and practices on the council's climate change duties.
- Utilise the Scottish Government's sustainable prioritisation tool to identify and prioritise procurement activity.
- Utilise the Flexible Framework Self-Assessment Tool (FFSAT) to provide a Sustainable Action Plan to establish the performance level of sustainable procurement across the council.
- Create and manage a sustainable register to capture, monitor and report on the sustainable outcomes achieved via procurement activity, and link to related internal and external reporting requirements.
- Procurement will encourage, through the tender process and support to contractors, provision of apprenticeships and promote health and safety and utilise environmentally sustainable solutions

The Council have a number of initiatives and activities that contribute to our climates change duties some examples are below but not exhaustive.

The Council works in very close collaboration with the Centre of expertise for local authorities Scotland Excel in the development and use of national frameworks. All their frameworks are aligned with the Scottish Sustainable Action Plan which encourages buyers to take a holistic view of the social, economic, environmental implications of the product or services. <https://home.scotland-excel.org.uk/our-contracts/contract-register/>

This also applies to the National contacts put in place by the Scottish Government for Council use <https://www.gov.scot/publications/frameworks-and-contracts/> and UK national contracts via Crown Commercial Service <https://www.gov.uk/government/organisations/crown-commercial-service>

The utilisation of the Sustainable Procurement tools however can also establish where possible information around:

Carbon in production

This is concerned with the procurement of products that are known to be energy/carbon intensive in their production.

- We use compostable bags for some of our waste collection

Carbon and energy consumption

This is concerned with the procurement of energy-using equipment (e.g. ICT, laboratory equipment, white goods, audio-visual and others) or the use of energy in the delivery of a service that is being procured (e.g. FM, printing, professional services).

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.

The Council Procurement Strategy covering April 2019–March 2025 is aimed at promoting effective procurement across the Council by setting out how the Council will:

- make procurement easier for suppliers and the Council alike
- increase the professionalism and commercial skill of those carrying out procurements for the Council
- give opportunity to local and SME suppliers to participate by increasing visibility of the Council's procurement plans and opportunities
- maximise innovation, sustainability and collaboration in procurement activities

On the 21st February 2019 It was recommended that Council agreed to adopt the Procurement Strategy and notes that the Procurement Strategy will be subject to an annual review.

This was after the Partnership and Performance Committee agreed on 31st January, 2019 to adopt the Strategy

The Council Strategy can be found using the following Link <https://www.clacks.gov.uk/business/procurementstrategy/>

The Corporate Procurement Process "The Procurement Journey" has been developed and is intended to support all levels of procurement activities and to help manage the expectations of stakeholders, customers and suppliers alike. It facilitates best practice and consistency across the Council.

Public Sector Report on Compliance with Climate Change Duties 2024 Template

PART 6 Validation and Declaration

6a Internal validation process

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

See below for the council's validation process of the PBCCD Report in order:

- 1) Data is captured by responsible services.
- 2) Data is collated into the report by the Energy and Sustainability team.
- 3) Input is checked in partnership with the Energy and Sustainability team, senior managers & responsible services.
- 4) Progress updates are presented at the Climate Emergency Working Group.
- 5) Final draft report is passed to internal auditors for validating.

6b Peer validation process

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

No peer validation was carried out for this report.

6c External validation process

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

No external validation was carried out for 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.

6e Declaration

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

Name:	Lawrence Hunter
Role in the body:	Energy & Sustainability Team Leader
Date:	29/11/2024

Date in format (dd/mm/yyyy)

Wider Impact and Influence on GHG Emissions

Q1) Historic Emissions (Local Authorities (LA))

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

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

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

2a) Targets
Please detail your wider influence targets:

Page 10 of 10

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

Clackmannanshire Council is also leading on the Community Wealth Building agenda and through the existing Action Plan (<https://www.clacks.gov.uk/document/6408.pdf>) has a number of actions supporting steps to reduce emissions. More information can be read in the file [Business & Industry Climate Change Department \(2022\).pdf](#)

Economic Development will also be developing a Clackmannanshire Strategy for Economic Transformation, with wellbeing economy, Community Wealth Building and Net Zero ambitions embedded

Our Local Development Plan (<http://gis.clackswest.org.uk/dataset/7247ba3b-d771-44e7-a97a-54f70bb90bdc/resource/64deca08-615f-43a4-a90-16e9c5c70e19/download/monitoring-report-2017.pdf>). LDP Vision and Strategic Objectives incorporates the following

Please detail any of the specific policies and actions which are underway to achieve your emission reduction target:

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	
Partnership Working	Employer Engagement Event	Lead		Ceteris (Scotland) Ltd, Flexibility Works	Zero Waste Scotland, Business Energy Scotland, Scottish Enterprise, University of Stirling			Event organised by Council Economic Development team in partnership with our local Business Gateway provider, Ceteris (Scotland) Ltd. The event was held on 1st February 2024 at Alloa Business Centre, with over 40 attendees (https://www.alloaeventseries.com/news/24084318-cto-cto-event-help-businesses-achieve-net-zero-target). The focus was on providing information to businesses and third sector organisations in Clackmannanshire on support which is available for net zero activity, action planning and potential funding opportunities. Speakers included representatives from Clackmannanshire Council (setting the scene at a local level), Zero Waste Scotland, Business Energy Scotland, Scottish Enterprise (including the Scottish Manufacturing Advisory Service), Flexibility Works (how hybrid and flexible working practices can support net zero ambitions), and the University of Stirling. Discussion was wide ranging, and contact details for all support organisations were provided to the businesses and third sector organisations in attendance.	
Partnership Working	Net Zero Workshops	Lead			Zero Waste Scotland, University of Stirling			A programme of net zero workshops commissioned by Council Economic Development and funded by UK Shared Prosperity Funding. Workshops organised by the University of Stirling and delivered at different venues in Clackmannanshire by Zero Waste Scotland and the University of Stirling. Using the Scottish Business Climate Collaboration (SBCC) tool 'Climate Action Hub' to measure carbon footprint and develop a carbon reduction plan. Benefits to businesses and third sector organisations: - Giving the organisation a competitive edge to secure and retain contracts given the mounting pressure to work with suppliers with a net zero strategy - Attracting new customers, with a third of consumers actively seeking out brands with sustainable and ethical credentials. - Enabling businesses to access future funding One workshop was held on 1st March with 11 organisations in attendance. Further workshops planned in 2024/25.	
Partnership Working	Net Zero Expert Help programme	Lead			Business Gateway			Funded by UK Shared Prosperity, a framework of net zero consultants has been set up by Clackmannanshire Council Economic Development team. Working in partnership with Business Gateway who make referrals into the support, we can fund up to 3 days 'expert help' consultancy to support organisations with net zero action planning, carbon measurement and carbon reduction plans, energy audits, etc. Two projects currently underway with third sector projects in the county.	
Partnership Working	Climate Forth Project	Supporting	Inner Forth Futures					Climate Forth Project (https://www.innerforthlandscape.co.uk/climate-forth) Project part funded by Clackmannanshire Council through V&AOTF. 2 events held during 2023/24 at Hawkhill Community Centre, attracting 21 attendees. Event topics 'Our Heritage and Future' and 'Climate Change and What is at Risk'.	
Partnership Working	Muckhart NFM Project	Lead			Church of Scotland, Forth Rivers Trust, Muckhart Flood Group, Woodland Trust		Schemes of various Natural flood risk management measure to reduce the risk of flooding to nearby housing.	The project will not only reduce the risk of property flooding but also introduces significant habitat and biodiversity improvement within the catchment. Whilst ultimate responsibility for the installed measures lies with the council, the local flood group are happy to accept responsibility for day to day maintenance actions. The local flood group effort in this regard are to be supported by TV.	
Partnership Working	The Hillbots network forum for local flood groups	Lead			SEPA, Scottish Fire and Rescue Service, Scottish Water, Angus Scotland	TCV, Forth Rivers Trust, Scottish Flood Forum, local flood group members	A regular meeting of all forum members to enable learning, engagement and best practice in flood risk management.	This model of engagement with our flood groups continues to be a very useful means of dialog with all forum members. The regularity of the meeting strengthens the ties between the members and public partners.	
Partnership Working	ACE recycling donation station (CTSI)	Supporting		Alloa Community Enterprises (ACE)			Services and programmes aimed at supporting the people and communities of Clackmannanshire and protect the environment by recycling second hand items.		
Partnership Working	Dollar Repair Cafe	Supporting		Dollar Community Development Trust			Volunteers who can help fix: Small electricals Electronics (Desktop/tablets etc) Small pieces of furniture Musical Instruments Clothing/bags/other fabrics Bikes		
Partnership Working	Mess Shed	Supporting		UK Men's Sheds Association			Men's Sheds encourage people to come together to make, repair and improve, supporting projects in their local communities.		
Partnership Working	Recycle-a-bike	Supporting		Recycle-a-bike			Refurbishes old bikes to stop a bike going to landfill and provides local employment and training.		
Partnership Working	WOW/Living Streets	Supporting		Living Streets			WOW/Living Streets carry out assessments of active travel hotspots in partnership with the council.	Collection of baseline data for people cycling and walking for everyday journeys ceased during 2020 (data being collected prior to this). Our partners, Living Streets, monitor daily travel to school through their WOW campaign (https://www.livingstreets.org.uk/walk-to-school/primary-schools/when-the-walk-to-school-challenge/best-travel-tracker) and this provides evidence for how primary school children travel to school. We monitor this data with Living Streets (one school has seen a 44% decrease in car travel in Aug 2024) and work closely with schools to raise awareness of sustainable travel. As part of our ongoing commitment, we are looking to invest in new traffic monitoring cameras in 2024/2025 to re-start data collection with regard to number of people using our multi use, segregated paths. The Active Travel Strategy, currently being written, will further outline targets and ambitions for people cycling and walking.	
Partnership Working	Scotland's International Environment Centre (SIEC) pollinator sensors	Supporting		Scotland's International Environment Centre (SIEC)			Ability to monitor pollinator populations and determine how much of an impact Climate Change and human activity is having on pollinators.	Scotland's International Environment Centre (SIEC) obtained funding from Clackmannanshire Council's Nature Restoration Fund to deploy 40 automated pollinator sensors throughout the Council area. The sensors are solar powered and transmit their data to via mobile connectivity. The sensors have been developed by AgriLand. They listen to the sounds around them and identify bees from the frequency of their wing beats. This data is then collated and the time when pollinators are active can be calculated. The sensors have been deployed at a range of sites throughout Clackmannanshire, in both urban and rural settings, such as Gartmore Dam, Devon Meadow, Clackmannan and Winny Park. Sensors are recording within school grounds and community gardens as well as country parks.	
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
Biodiversity		Lead		This is Clackmannanshire Council's first pollinator strategy and action plan. The document acknowledges the importance of pollinators within our community and provides an action plan that identifies the role that the Council will take in helping to tackle the decline in pollinator populations. The strategy aligns with the Pollinator Strategy for Scotland 2017-2027 and the Council's Climate Change strategy. Pollinators ensure the continuation of plant populations that lock up carbon in their woody stems, roots, bolls and tubers. The best way to restore natural habitats to help fight global warming is through natural regeneration from seeds, and for that we need pollinators. Pollination is not just fascinating natural history. It is an essential ecological survival function. Without pollination, the human race and all of earth's terrestrial ecosystems would not survive.
Resource Use	Finalise Pollinator Strategy draft and carry out consultation process	Lead	Approval and implementation of this document will help reduce the impact on pollinators caused by climate change and human activity.	
	Continued development and administration of Energy Efficiency Scotland: Area Based Scheme programme.		Reduction of energy usage in private households through energy efficiency measures.	The council will continue to deliver energy efficiency measures with EES ABS funding.
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Q6) Please use the text box below to detail further climate change related activity that is not noted elsewhere within this reporting template				

UK Government GHG Conversion Factors for Company Reporting

Factors by Category

Category				
Scope	Level 1	Level 3	UOM	GHG Conversion Factor 2023 (kgCO ₂ e/unit)
Scope 1	Bioenergy	Biogas	kWh	0.00022
Scope 1	Bioenergy	Biogas	tonnes	1.23595
Scope 1	Bioenergy	Landfill gas	kWh	0.00020
Scope 1	Bioenergy	Wood chips	kWh	0.01074
Scope 1	Bioenergy	Wood chips	tonnes	40.58114
Scope 1	Bioenergy	Wood pellets	kWh	0.01074
Scope 1	Bioenergy	Wood pellets	tonnes	51.56192
Scope 2	Electricity	Electricity: UK	kWh	0.20707
Scope 3	Electricity	Transmission and distribution - Electricity: UK	kWh	0.01792
Scope 1	Fuels	Aviation spirit	kWh	0.24382
Scope 1	Fuels	Aviation spirit	litres	2.33116
Scope 1	Fuels	Aviation turbine fuel	kWh	0.24758
Scope 1	Fuels	Aviation turbine fuel	litres	2.54269
Scope 1	Fuels	Burning oil (Kerosene)	kWh	0.24677
Scope 1	Fuels	Burning oil (Kerosene)	litres	2.54016
Scope 1	Fuels	Burning oil (Kerosene)	tonnes	3165.04181
Scope 1	Fuels	Coal (industrial)	tonnes	2396.47994
Scope 1	Fuels	Diesel (100% mineral diesel)	litres	2.65937
Scope 1	Fuels	Diesel (average biofuel blend)	litres	2.51206
Scope 1	Fuels	Fuel oil	kWh	0.26813
Scope 1	Fuels	Fuel oil	litres	3.17492
Scope 1	Fuels	Fuel oil	tonnes	3228.89019
Scope 1	Fuels	Gas oil	kWh	0.25650
Scope 1	Fuels	Gas oil	litres	2.75541
Scope 1	Fuels	Gas oil	tonnes	3226.57859
Scope 1	Fuels	LPG	kWh	0.21450
Scope 1	Fuels	LPG	litres	1.55713
Scope 1	Fuels	Marine fuel oil	litres	3.10202
Scope 1	Fuels	Marine gas oil	litres	2.77139
Scope 1	Fuels	Natural gas	kWh	0.18293
Scope 1	Fuels	Petrol (100% mineral petrol)	litres	2.34503
Scope 1	Fuels	Petrol (average biofuel blend)	litres	2.09747
Scope 1	Fuels	Propane	kWh	0.21410
Scope 1	Fuels	Propane	litres	1.54358
Scope 1	Fuels	Waste oils	kWh	0.25641
Scope 1	Fuels	Waste oils	litres	2.74924
Scope 1	Fuels	Waste oils	tonnes	3219.37916
Scope 2	Heat and steam	District heat and steam	kWh	0.17965
Scope 2	Heat and steam	Onsite heat and steam	kWh	0.17965
Scope 3	Heat and steam	Transmission and distribution - district heat & steam, 5% loss	kWh	0.00945
Scope 3	Homeworking	Homeworking (office equipment + heating)	FTE Working Hours	0.33378
Scope 3	Hotel stay	Hotel stay - UK	Room per night	10.40000
Scope 3	Hotel stay	Hotel stay - UK (London)	Room per night	11.50000
Scope 3	Material use	Aggregates - Primary material production	tonnes	7.75138
Scope 3	Material use	Aggregates - Recycled source	tonnes	3.19491
Scope 3	Material use	Aggregates - Re-used	tonnes	2.21000
Scope 3	Material use	Asbestos - Primary material production	tonnes	27.00000
Scope 3	Material use	Asphalt - Primary material production	tonnes	39.21249
Scope 3	Material use	Asphalt - Recycled source	tonnes	28.65491
Scope 3	Material use	Asphalt - Re-used	tonnes	1.73826
Scope 3	Material use	Average construction - Primary material production	tonnes	80.21282
Scope 3	Material use	Batteries - Alkaline - Primary material production	tonnes	4633.47826
Scope 3	Material use	Batteries - Li ion - Primary material production	tonnes	6308.00000
Scope 3	Material use	Batteries - NiMH - Primary material production	tonnes	28380.00000
Scope 3	Material use	Bricks - Primary material production	tonnes	241.75138
Scope 3	Material use	Clothing - Primary material production	tonnes	22310.00000
Scope 3	Material use	Clothing - Re-used	tonnes	152.25000
Scope 3	Material use	Compost derived from food and garden waste - Primary material production	tonnes	114.83405
Scope 3	Material use	Compost derived from garden waste - Primary material production	tonnes	112.01742
Scope 3	Material use	Concrete - Primary material production	tonnes	131.75138
Scope 3	Material use	Concrete - Recycled source	tonnes	3.19491
Scope 3	Material use	Electrical items - fridges and freezers - Primary material production	tonnes	4363.33333
Scope 3	Material use	Electrical items - IT - Primary material production	tonnes	24865.47556
Scope 3	Material use	Electrical items - large - Primary material production	tonnes	3267.00000
Scope 3	Material use	Electrical items - small - Primary material production	tonnes	5647.94563
Scope 3	Material use	Food and drink - Primary material production	tonnes	3701.40359
Scope 3	Material use	Glass - Primary material production	tonnes	1402.76667
Scope 3	Material use	Glass - Recycled source	tonnes	823.18954
Scope 3	Material use	Insulation - Primary material production	tonnes	1861.75138
Scope 3	Material use	Insulation - Recycled source	tonnes	1852.08125
Scope 3	Material use	Metal: aluminium cans and foil (excl. forming) - Primary material production	tonnes	9108.72731
Scope 3	Material use	Metal: aluminium cans and foil (excl. forming) - Recycled source	tonnes	990.47810
Scope 3	Material use	Metal: mixed cans - Primary material production	tonnes	5254.64731
Scope 3	Material use	Metal: mixed cans - Recycled source	tonnes	1461.67759
Scope 3	Material use	Metal: scrap metal - Primary material production	tonnes	3669.43615
Scope 3	Material use	Metal: scrap metal - Recycled source	tonnes	1620.27606
Scope 3	Material use	Metal: steel cans - Primary material production	tonnes	3086.72731
Scope 3	Material use	Metal: steel cans - Recycled source	tonnes	1726.72731
Scope 3	Material use	Metals - Primary material production	tonnes	4005.13777
Scope 3	Material use	Metals - Recycled source	tonnes	1558.94894
Scope 3	Material use	Mineral oil - Primary material production	tonnes	1401.00000
Scope 3	Material use	Mineral oil - Recycled source	tonnes	676.00000
Scope 3	Material use	Paper and board: board - Primary material production	tonnes	801.52177
Scope 3	Material use	Paper and board: board - Recycled source	tonnes	699.88184
Scope 3	Material use	Paper and board: mixed - Primary material production	tonnes	868.06994
Scope 3	Material use	Paper and board: mixed - Recycled source	tonnes	718.56937
Scope 3	Material use	Paper and board: paper - Primary material production	tonnes	910.47810
Scope 3	Material use	Paper and board: paper - Recycled source	tonnes	730.47810
Scope 3	Material use	Plasterboard - Primary material production	tonnes	120.05000
Scope 3	Material use	Plasterboard - Recycled source	tonnes	32.17000
Scope 3	Material use	Plastics: average plastic film - Primary material production	tonnes	2560.25566
Scope 3	Material use	Plastics: average plastic film - Recycled source	tonnes	1890.70135

Scope 3	Material use	Plastics: average plastic rigid - Primary material production	tonnes	3263.92202
Scope 3	Material use	Plastics: average plastic rigid - Recycled source	tonnes	2744.09248
Scope 3	Material use	Plastics: average plastics - Primary material production	tonnes	3102.44851
Scope 3	Material use	Plastics: average plastics - Recycled source	tonnes	2322.22425
Scope 3	Material use	Plastics: HDPE (incl. forming) - Primary material production	tonnes	3255.92980
Scope 3	Material use	Plastics: HDPE (incl. forming) - Recycled source	tonnes	2346.68907
Scope 3	Material use	Plastics: LDPE and LLDPE (incl. forming) - Primary material production	tonnes	2586.72731
Scope 3	Material use	Plastics: LDPE and LLDPE (incl. forming) - Recycled source	tonnes	1793.29541
Scope 3	Material use	Plastics: PET (incl. forming) - Primary material production	tonnes	4018.48341
Scope 3	Material use	Plastics: PET (incl. forming) - Recycled source	tonnes	3121.34429
Scope 3	Material use	Plastics: PP (incl. forming) - Primary material production	tonnes	3090.81790
Scope 3	Material use	Plastics: PP (incl. forming) - Recycled source	tonnes	2537.38600
Scope 3	Material use	Plastics: PS (incl. forming) - Primary material production	tonnes	3764.03981
Scope 3	Material use	Plastics: PS (incl. forming) - Recycled source	tonnes	3187.08199
Scope 3	Material use	Plastics: PVC (incl. forming) - Primary material production	tonnes	3399.17507
Scope 3	Material use	Plastics: PVC (incl. forming) - Recycled source	tonnes	2485.74317
Scope 3	Material use	Soils - Recycled source	tonnes	0.98491
Scope 3	Material use	Tyres - Primary material production	tonnes	3335.57190
Scope 3	Material use	Tyres - Re-used	tonnes	731.21789
Scope 3	Material use	Wood - Primary material production	tonnes	312.61178
Scope 3	Material use	Wood - Recycled source	tonnes	112.96968
Scope 3	Material use	Wood - Re-used	tonnes	38.54288
Scope 1	Process	Desflurane	kg	2540.00000
Scope 1	Process	Sevoflurane	kg	130.00000
Scope 1	Process	Isoflurane	kg	510.00000
Scope 1	Process	Anaesthetic Nitrous Oxide	kg	298.00000
Scope 1	Refrigerants	HFC-134a	kg	1300.00000
Scope 1	Refrigerants	HFC-32	kg	677.00000
Scope 1	Refrigerants	R404A	kg	3943.00000
Scope 1	Refrigerants	R407C	kg	1624.00000
Scope 1	Refrigerants	R410A	kg	1924.00000
Scope 1	Refrigerants	R422D	kg	2473.00000
Scope 1	Refrigerants	R422E	kg	2350.00000
Scope 1	Refrigerants	R423A	kg	2274.00000
Scope 1	Refrigerants	R424A	kg	2212.00000
Scope 1	Refrigerants	R425A	kg	1431.00000
Scope 1	Refrigerants	R426A	kg	1371.00000
Scope 1	Refrigerants	R427A	kg	2024.00000
Scope 1	Refrigerants	R428A	kg	3417.00000
Scope 1	Refrigerants	R429A	kg	13.80000
Scope 1	Refrigerants	R430A	kg	106.00000
Scope 1	Refrigerants	R431A	kg	40.00000
Scope 1	Refrigerants	R432A	kg	1.80000
Scope 1	Refrigerants	R433A	kg	0.64000
Scope 1	Refrigerants	R433B	kg	0.16000
Scope 1	Refrigerants	R433C	kg	0.55000
Scope 1	Refrigerants	R434A	kg	3075.00000
Scope 1	Refrigerants	R435A	kg	28.40000
Scope 1	Refrigerants	R436A	kg	1.35000
Scope 1	Refrigerants	R436B	kg	1.47000
Scope 1	Refrigerants	R437A	kg	1639.00000
Scope 1	Refrigerants	R438A	kg	2059.00000
Scope 1	Refrigerants	R439A	kg	1828.00000
Scope 1	Refrigerants	R440A	kg	156.00000
Scope 1	Refrigerants	R441A	kg	0.23000
Scope 1	Refrigerants	R442A	kg	1754.00000
Scope 1	Refrigerants	R443A	kg	1.00000
Scope 1	Refrigerants	R444A	kg	89.00000
Scope 1	Refrigerants	R445A	kg	118.00000
Scope 1	Refrigerants	R500	kg	7564.00000
Scope 1	Refrigerants	R501	kg	3870.00000
Scope 1	Refrigerants	R502	kg	4786.00000
Scope 1	Refrigerants	R503	kg	13299.00000
Scope 1	Refrigerants	R504	kg	4299.00000
Scope 1	Refrigerants	R505	kg	7956.00000
Scope 1	Refrigerants	R506	kg	3857.00000
Scope 1	Refrigerants	R507A	kg	3985.00000
Scope 1	Refrigerants	R508A	kg	11607.00000
Scope 1	Refrigerants	R508B	kg	11698.00000
Scope 1	Refrigerants	R509A	kg	5758.00000
Scope 1	Refrigerants	R510A	kg	1.24000
Scope 1	Refrigerants	R511A	kg	7.00000
Scope 1	Refrigerants	R512A	kg	196.00000
Scope 1	Refrigerants	R600 = butane	kg	0.00600
Scope 1	Refrigerants	R600A = isobutane	kg	3.00000
Scope 1	Refrigerants	R601 = pentane	kg	5.00000
Scope 1	Refrigerants	R601A = isopentane	kg	5.00000
Scope 2	Renewables	Renewable Elec Purchase Direct Supply	kWh	0.00000
Scope 2	Renewables	Renewable Heat Purchase Direct Supply	kWh	0.00000
Scope 2&3	Transport - car	Average business travel car - Battery Electric Vehicle	km	0.05480
Scope 2&3	Transport - car	Average business travel car - Battery Electric Vehicle	miles	0.08819
Scope 2&3	Transport - car	Average business travel car - Plug-in Hybrid Electric Vehicle	km	0.09392
Scope 2&3	Transport - car	Average business travel car - Plug-in Hybrid Electric Vehicle	miles	0.15113
Scope 3	Transport - car	Average car - Diesel	km	0.16983
Scope 3	Transport - car	Average car - Diesel	miles	0.27332
Scope 3	Transport - car	Average car - Hybrid	km	0.11898
Scope 3	Transport - car	Average car - Hybrid	miles	0.19147
Scope 3	Transport - car	Average car - Petrol	km	0.16391
Scope 3	Transport - car	Average car - Petrol	miles	0.26379
Scope 3	Transport - car	Average car - Unknown	km	0.16664
Scope 3	Transport - car	Average car - Unknown	miles	0.26817
Scope 1	Transport - car	Average fleet car - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - car	Average fleet car - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - car	Average fleet car - Plug-in Hybrid Electric Vehicle	km	0.06588
Scope 1	Transport - car	Average fleet car - Plug-in Hybrid Electric Vehicle	miles	0.10601
Scope 2&3	Transport - car	Large business travel car - Battery Electric Vehicle	km	0.05797
Scope 2&3	Transport - car	Large business travel car - Battery Electric Vehicle	miles	0.09330
Scope 2&3	Transport - car	Large business travel car - Plug-in Hybrid Electric Vehicle	km	0.10158
Scope 2&3	Transport - car	Large business travel car - Plug-in Hybrid Electric Vehicle	miles	0.16349
Scope 3	Transport - car	Large car - Diesel	km	0.20859

Scope 3	Transport - car	Large car - Diesel	miles	0.33570
Scope 3	Transport - car	Large car - Hybrid	km	0.15244
Scope 3	Transport - car	Large car - Hybrid	miles	0.24530
Scope 3	Transport - car	Large car - Petrol	km	0.27224
Scope 3	Transport - car	Large car - Petrol	miles	0.43812
Scope 3	Transport - car	Large car - Unknown	km	0.22612
Scope 3	Transport - car	Large car - Unknown	miles	0.36389
Scope 1	Transport - car	Large fleet car - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - car	Large fleet car - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - car	Large fleet car - Plug-in Hybrid Electric Vehicle	km	0.07082
Scope 1	Transport - car	Large fleet car - Plug-in Hybrid Electric Vehicle	miles	0.11397
Scope 2&3	Transport - car	Medium business travel car - Battery Electric Vehicle	km	0.05257
Scope 2&3	Transport - car	Medium business travel car - Battery Electric Vehicle	miles	0.08458
Scope 2&3	Transport - car	Medium business travel car - Plug-in Hybrid Electric Vehicle	km	0.08501
Scope 2&3	Transport - car	Medium business travel car - Plug-in Hybrid Electric Vehicle	miles	0.13680
Scope 3	Transport - car	Medium car - Diesel	km	0.16716
Scope 3	Transport - car	Medium car - Diesel	miles	0.26902
Scope 3	Transport - car	Medium car - Hybrid	km	0.10904
Scope 3	Transport - car	Medium car - Hybrid	miles	0.17549
Scope 3	Transport - car	Medium car - Petrol	km	0.17819
Scope 3	Transport - car	Medium car - Petrol	miles	0.28676
Scope 3	Transport - car	Medium car - Unknown	km	0.17246
Scope 3	Transport - car	Medium car - Unknown	miles	0.27754
Scope 1	Transport - car	Medium fleet car - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - car	Medium fleet car - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - car	Medium fleet car - Plug-in Hybrid Electric Vehicle	km	0.06144
Scope 1	Transport - car	Medium fleet car - Plug-in Hybrid Electric Vehicle	miles	0.09887
Scope 3	Transport - car	Motorbike - Average	km	0.11367
Scope 3	Transport - car	Motorbike - Average	miles	0.18294
Scope 2&3	Transport - car	Small business travel car - Battery Electric Vehicle	km	0.04823
Scope 2&3	Transport - car	Small business travel car - Battery Electric Vehicle	miles	0.07763
Scope 2&3	Transport - car	Small business travel car - Plug-in Hybrid Electric Vehicle	km	0.05402
Scope 2&3	Transport - car	Small business travel car - Plug-in Hybrid Electric Vehicle	miles	0.08694
Scope 3	Transport - car	Small car - Diesel	km	0.13931
Scope 3	Transport - car	Small car - Diesel	miles	0.22420
Scope 3	Transport - car	Small car - Hybrid	km	0.10150
Scope 3	Transport - car	Small car - Hybrid	miles	0.16336
Scope 3	Transport - car	Small car - Petrol	km	0.14080
Scope 3	Transport - car	Small car - Petrol	miles	0.22660
Scope 3	Transport - car	Small car - Unknown	km	0.14037
Scope 3	Transport - car	Small car - Unknown	miles	0.22591
Scope 1	Transport - car	Small fleet car - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - car	Small fleet car - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - car	Small fleet car - Plug-in Hybrid Electric Vehicle	km	0.02163
Scope 1	Transport - car	Small fleet car - Plug-in Hybrid Electric Vehicle	miles	0.03481
Scope 3	Transport - public	Average local bus	passenger.km	0.10215
Scope 3	Transport - public	Black cab	km	0.30604
Scope 3	Transport - public	Black cab	passenger.km	0.20402
Scope 3	Transport - public	Coach	passenger.km	0.02718
Scope 3	Transport - public	Ferry - Average (all passenger)	passenger.km	0.11270
Scope 3	Transport - public	Ferry - Car passenger	passenger.km	0.12933
Scope 3	Transport - public	Ferry - Foot passenger	passenger.km	0.01871
Scope 3	Transport - public	Flights - Domestic, to/from UK - Average passenger	passenger.km	0.27258
Scope 3	Transport - public	Flights - International, to/from non-UK - Average passenger	passenger.km	0.17580
Scope 3	Transport - public	Flights - International, to/from non-UK - Business class	passenger.km	0.39044
Scope 3	Transport - public	Flights - International, to/from non-UK - Economy class	passenger.km	0.13464
Scope 3	Transport - public	Flights - International, to/from non-UK - First class	passenger.km	0.53854
Scope 3	Transport - public	Flights - International, to/from non-UK - Premium economy class	passenger.km	0.21542
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Average passenger	passenger.km	0.26128
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Business class	passenger.km	0.58029
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Economy class	passenger.km	0.20011
Scope 3	Transport - public	Flights - Long-haul, to/from UK - First class	passenger.km	0.80040
Scope 3	Transport - public	Flights - Long-haul, to/from UK - Premium economy class	passenger.km	0.32016
Scope 3	Transport - public	Flights - Short-haul, to/from UK - Average passenger	passenger.km	0.18592
Scope 3	Transport - public	Flights - Short-haul, to/from UK - Business class	passenger.km	0.27430
Scope 3	Transport - public	Flights - Short-haul, to/from UK - Economy class	passenger.km	0.18287
Scope 3	Transport - public	International rail	passenger.km	0.00446
Scope 3	Transport - public	Light rail and tram	passenger.km	0.02860
Scope 3	Transport - public	Local bus (not London)	passenger.km	0.11836
Scope 3	Transport - public	Local London bus	passenger.km	0.07832
Scope 3	Transport - public	London Underground	passenger.km	0.02780
Scope 3	Transport - public	National rail	passenger.km	0.03546
Scope 3	Transport - public	Regular taxi	km	0.20806
Scope 3	Transport - public	Regular taxi	passenger.km	0.14861
Scope 2&3	Transport - van/HGV	Business Travel Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	km	0.07346
Scope 2&3	Transport - van/HGV	Business Travel Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	miles	0.11824
Scope 2&3	Transport - van/HGV	Business Travel Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	km	0.03850
Scope 2&3	Transport - van/HGV	Business Travel Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	miles	0.06197
Scope 2&3	Transport - van/HGV	Business Travel Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	km	0.05932
Scope 2&3	Transport - van/HGV	Business Travel Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	miles	0.09547
Scope 2&3	Transport - van/HGV	Business Travel Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	km	0.08967
Scope 2&3	Transport - van/HGV	Business Travel Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	miles	0.14430
Scope 1	Transport - van/HGV	Fleet Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Average (up to 3.5 tonnes) - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class I (up to 1.305 tonnes) - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class II (1.305 to 1.74 tonnes) - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	km	0.00000
Scope 1	Transport - van/HGV	Fleet Van - Class III (1.74 to 3.5 tonnes) - Battery Electric Vehicle	miles	0.00000
Scope 1	Transport - van/HGV	HGV (all diesel) - All artic - Average laden	km	0.90644
Scope 1	Transport - van/HGV	HGV (all diesel) - All artic - Average laden	miles	1.45877
Scope 1	Transport - van/HGV	HGV (all diesel) - All HGVs - Average laden	km	0.87205
Scope 1	Transport - van/HGV	HGV (all diesel) - All HGVs - Average laden	miles	1.40341
Scope 1	Transport - van/HGV	HGV (all diesel) - All rigid - Average laden	km	0.82313
Scope 1	Transport - van/HGV	HGV (all diesel) - All rigid - Average laden	miles	1.32470
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All artic - Average laden	km	1.04867
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All artic - Average laden	miles	1.68766
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All HGVs - Average laden	km	1.02098

Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All HGVs - Average laden	miles	1.64310
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All rigid - Average laden	km	0.98025
Scope 1	Transport - van/HGV	HGVs refrigerated (all diesel) - All rigid - Average laden	miles	1.57754
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Diesel	km	0.23128
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Diesel	miles	0.37224
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Petrol	km	0.20132
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Petrol	miles	0.32400
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Unknown	km	0.23037
Scope 1	Transport - van/HGV	Vans - Average (up to 3.5 tonnes) - Unknown	miles	0.37075
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Diesel	km	0.14212
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Diesel	miles	0.22875
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Petrol	km	0.18217
Scope 1	Transport - van/HGV	Vans - Class I (up to 1.305 tonnes) - Petrol	miles	0.29318
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Diesel	km	0.17405
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Diesel	miles	0.28013
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Petrol	km	0.19594
Scope 1	Transport - van/HGV	Vans - Class II (1.305 to 1.74 tonnes) - Petrol	miles	0.31534
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Diesel	km	0.25346
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Diesel	miles	0.40792
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Petrol	km	0.31444
Scope 1	Transport - van/HGV	Vans - Class III (1.74 to 3.5 tonnes) - Petrol	miles	0.50605
Scope 3	Waste	Aggregates - Landfill	tonnes	1.23401
Scope 3	Waste	Aggregates - Recycled	tonnes	0.98491
Scope 3	Waste	Asbestos - Landfill	tonnes	5.91332
Scope 3	Waste	Asphalt - Landfill	tonnes	1.23401
Scope 3	Waste	Asphalt - Recycled	tonnes	0.98491
Scope 3	Waste	Average construction - Combustion	tonnes	21.28081
Scope 3	Waste	Average construction - Recycled	tonnes	0.98491
Scope 3	Waste	Batteries - Landfill	tonnes	8.88413
Scope 3	Waste	Batteries - Recycled	tonnes	21.28081
Scope 3	Waste	Books - Combustion	tonnes	21.07310
Scope 3	Waste	Books - Landfill	tonnes	1164.09963
Scope 3	Waste	Books - Recycled	tonnes	21.07310
Scope 3	Waste	Bricks - Landfill	tonnes	1.23401
Scope 3	Waste	Clinical Waste - Orange Stream	tonnes	273.00000
Scope 3	Waste	Clinical Waste - Other	tonnes	1000.00000
Scope 3	Waste	Clinical Waste - Red Stream	tonnes	1000.00000
Scope 3	Waste	Clinical Waste - Yellow Stream	tonnes	297.00000
Scope 3	Waste	Clothing - Combustion	tonnes	21.28081
Scope 3	Waste	Clothing - Landfill	tonnes	496.68331
Scope 3	Waste	Clothing - Recycled	tonnes	21.28081
Scope 3	Waste	Commercial and industrial waste - Combustion	tonnes	21.28081
Scope 3	Waste	Commercial and industrial waste - Landfill	tonnes	520.33474

Scope 3	Waste	Concrete - Landfill	tonnes	1.23401
Scope 3	Waste	Concrete - Recycled	tonnes	0.98491
Scope 3	Waste	Glass - Combustion	tonnes	21.28081
Scope 3	Waste	Glass - Landfill	tonnes	8.88413
Scope 3	Waste	Glass - Recycled	tonnes	21.28081
Scope 3	Waste	Household/Municipal/Domestic waste - Combustion	tonnes	21.28081
Scope 3	Waste	Household/Municipal/Domestic waste - Landfill	tonnes	497.04471
Scope 3	Waste	Mixed dry recyclates - Recycled	tonnes	21.28081
Scope 3	Waste	Insulation - Landfill	tonnes	1.23401
Scope 3	Waste	Insulation - Recycled	tonnes	0.98491
Scope 3	Waste	Metal: aluminium cans and foil (excl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Metal: aluminium cans and foil (excl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Metal: aluminium cans and foil (excl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Metal: mixed cans - Combustion	tonnes	21.28081
Scope 3	Waste	Metal: mixed cans - Landfill	tonnes	8.88413
Scope 3	Waste	Metal: mixed cans - Recycled	tonnes	21.28081
Scope 3	Waste	Metal: scrap metal - Combustion	tonnes	21.28081
Scope 3	Waste	Metal: scrap metal - Landfill	tonnes	8.88413
Scope 3	Waste	Metal: scrap metal - Recycled	tonnes	21.28081
Scope 3	Waste	Metal: steel cans - Combustion	tonnes	21.28081
Scope 3	Waste	Metal: steel cans - Landfill	tonnes	8.88413
Scope 3	Waste	Metal: steel cans - Recycled	tonnes	21.28081
Scope 3	Waste	Metals - Landfill	tonnes	1.26435
Scope 3	Waste	Metals - Recycled	tonnes	0.98491
Scope 3	Waste	Mineral oil - Combustion	tonnes	21.28081
Scope 3	Waste	Mineral oil - Recycled	tonnes	21.28081
Scope 3	Waste	Organic: food and drink waste - Anaerobic digestion	tonnes	8.91242
Scope 3	Waste	Organic: food and drink waste - Combustion	tonnes	21.28081
Scope 3	Waste	Organic: food and drink waste - Composting	tonnes	8.91242
Scope 3	Waste	Organic: food and drink waste - Landfill	tonnes	700.20988
Scope 3	Waste	Organic: garden waste - Anaerobic digestion	tonnes	8.91242
Scope 3	Waste	Organic: garden waste - Combustion	tonnes	21.28081
Scope 3	Waste	Organic: garden waste - Composting	tonnes	8.91242
Scope 3	Waste	Organic: garden waste - Landfill	tonnes	646.60659
Scope 3	Waste	Organic: mixed food and garden waste - Anaerobic digestion	tonnes	8.91242
Scope 3	Waste	Organic: mixed food and garden waste - Combustion	tonnes	21.28081
Scope 3	Waste	Organic: mixed food and garden waste - Composting	tonnes	8.91242
Scope 3	Waste	Organic: mixed food and garden waste - Landfill	tonnes	655.98717
Scope 3	Waste	Paper and board: board - Combustion	tonnes	21.28081
Scope 3	Waste	Paper and board: board - Composting	tonnes	8.91242
Scope 3	Waste	Paper and board: board - Landfill	tonnes	1164.39042
Scope 3	Waste	Paper and board: board - Recycled	tonnes	21.28081
Scope 3	Waste	Paper and board: mixed - Combustion	tonnes	21.28081
Scope 3	Waste	Paper and board: mixed - Composting	tonnes	8.91242
Scope 3	Waste	Paper and board: mixed - Landfill	tonnes	1164.39042
Scope 3	Waste	Paper and board: mixed - Recycled	tonnes	21.28081
Scope 3	Waste	Paper and board: paper - Combustion	tonnes	21.28081
Scope 3	Waste	Paper and board: paper - Composting	tonnes	8.91242
Scope 3	Waste	Paper and board: paper - Landfill	tonnes	1164.39042
Scope 3	Waste	Paper and board: paper - Recycled	tonnes	21.28081
Scope 3	Waste	Plasterboard - Landfill	tonnes	71.95000
Scope 3	Waste	Plasterboard - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: average plastic film - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: average plastic film - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: average plastic film - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: average plastic rigid - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: average plastic rigid - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: average plastic rigid - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: average plastics - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: average plastics - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: average plastics - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: HDPE (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: HDPE (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: HDPE (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: LDPE and LLDPE (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: LDPE and LLDPE (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: LDPE and LLDPE (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: PET (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: PET (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: PET (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: PP (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: PP (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: PP (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: PS (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: PS (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: PS (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Plastics: PVC (incl. forming) - Combustion	tonnes	21.28081
Scope 3	Waste	Plastics: PVC (incl. forming) - Landfill	tonnes	8.88413
Scope 3	Waste	Plastics: PVC (incl. forming) - Recycled	tonnes	21.28081
Scope 3	Waste	Soils - Landfill	tonnes	19.51734
Scope 3	Waste	Soils - Recycled	tonnes	0.98491
Scope 3	Waste	Tyres - Recycled	tonnes	21.28081
Scope 3	Waste	WEEE - fridges and freezers - Landfill	tonnes	8.88413
Scope 3	Waste	WEEE - large - Combustion	tonnes	21.28081
Scope 3	Waste	WEEE - large - Landfill	tonnes	8.88413
Scope 3	Waste	WEEE - mixed - Combustion	tonnes	21.28081
Scope 3	Waste	WEEE - mixed - Landfill	tonnes	8.88413
Scope 3	Waste	WEEE - small - Combustion	tonnes	21.28081
Scope 3	Waste	WEEE - small - Landfill	tonnes	8.88413
Scope 3	Waste	Wood - Combustion	tonnes	21.28081
Scope 3	Waste	Wood - Composting	tonnes	8.91242
Scope 3	Waste	Wood - Landfill	tonnes	925.24450
Scope 3	Waste	Wood - Recycled	tonnes	21.28081
Scope 3	Water	Water supply	cubic metres	0.10000
Scope 3	Water	Water supply	million litres	110.00000

END

Key responsibilities				
Lead	Climate Emergency Work Group - Service Reps	Clackmannanshire Council		
Compiler of report	Energy and Sustainability Team			
Audit	Internal Audit			
How many months will the project last?		11		
Considerations/Constraints	Format changes by SSN following UK Gov releasing conversion factors Dates when emissions data is released			

Task	Comments	Timescales	January	February	March	April	May	June	July	Aug	Sept	Oct	30th Nov
Feedback from Internal Audit on 2023/24 report presented at Climate Emergency Working Group (CEWG) meeting (21st of January)	- Feedback/Questions from services. - E+S confirm folder for the depositing of information. - Services identify lead persons for each service. - Timeframe agreed.	1 Day											
Presentation on 23/24 Report to Climate Emergency Board (CEB) meeting (11th of February)	- Feedback from CEB members passed on to CEWG members	1 Day											
Service Review of feedback from Internal Audit	- Identify strengths and weaknesses. - Commence collation of 24/25 data.	10 Weeks											
Service Feedback to CEWG meeting (18th April) on progress	- Services to report on progress and to identify any challenges with data collected to date. - E+S to inform the Internal Audit on identified challenges	1 Day											
Update to CEB meeting (6th of May) on progress	- E+S report to CEB on progress/identified challenges	1 Day											
Services ongoing work on collection of data + data input by E+S team to template	- Ensure supporting documentation is available	9 Months											
PBCCD 2024/25 Guidance from SSN/UK Government	- UK gov. Publish Conversion figures. Jun/July - E+S relay any new requirements to services and update CEWG meeting (8th of July)	2 Months											
Services make amendments/adjustments based on UK gov and SSN guidance	- Internal Audit informed of any changes and of any potential challenges in the provision of new requirements.	2 Months											
Update to CEB meeting (12th of August) on progress	- E+S report to CEB on progress/identified challenges	1 Day											
Service Feedback to CEWG meeting (8th of October) on progress	- Services to report on progress and to identify any challenges with data collected.	1 Day											
Data collected to date sent to Internal Audit / Internal Audit Review	- Document completed as far as possible taking into account the constraints of available data at this point. - Waste data unavailable until 30th Oct. Details to be issued to Internal Audit within 5 days of receiving data - E+S to submit the draft to Internal Audit within the first week of October - Internal Audit to complete their draft report by the beginning of the 3rd week in November (17th,18th Nov) Feedback on actions to meet Internal Audit recommendations to be supplied to Internal Audit by 25th Nov.	1 Month											
Update CEB meeting (11 November) on Progress	- E+S report to CEB on progress and submission to Internal Audit	1 Day											
Submission of PBCCD report to SSN	- Internal Audit to certify the final PBCCD Report before close of play on the 27th November 2025 - E+ S to aim to submit the final PBCCD Report to SSN by close of play on Fri 28th Nov with the latest submission date being Sunday the 30th of November 2025	1 Day											

The above time table is subject to any changes that may be instructed by the Scottish Sustainability Network
The E+S team and Internal Audit will work together to amend the time table should there be substantial changes that will impact upon the completion date of the 30th November. Any changes will be presented to the CEWG and CEB.

Appendix 4: Greenhouse Gas Emissions

The emissions data is based on greenhouse gas emissions which the Council can directly influence.

The Council's Energy Officer sources the data from records of usage.

Scope 1 (gas, LPG, fuel oil, diesel, and biomass),

Scope 2 (grid electricity) and

Scope 3 (water, water treatment, and grid electricity) emissions was consistent with that in the 2018/19, 2019/20, 2020/21, 2021/22, and 2022/23 reports.

It was noted that the Scope 1 and 3 for 2022/23 in the current return was different from the final return received in the prior year, however, evidence has been received to demonstrate a late amendment to the submission in the prior year.

The information at Table 1 confirms that the Council's greenhouse gas emissions have reduced over the previous four years. There was a major increase in 2021/22, however, due to the incorporation of emissions from waste (7,074 tCO₂e) into the carbon footprint in Scope 3. This information was not available in previous years, however, was again not included for 2022/23 due to information being unavailable from the originating department. Waste emissions have been included in the 2023/24 figures (5,901 tCO₂e) into the carbon footprint in Scope 3. There was also a slight decrease in Scope 1 and 2 emissions due to a reduction in fuel usage, and the increase in Scope 3 is due to increased mileage claims.

Table 1

Year	Scope 1	Scope 2	Scope 3	Total	Units
2017/18	3,940	3,096	503	7,538	tCO ₂ e
2018/19	3,445	2,418	421	6,285	tCO ₂ e
2019/20	3,468	2,139	379	5,986	tCO ₂ e
2020/21	3,137	1,663	245	5,045	tCO ₂ e
2021/22	3,098	1,890	7,327	12,315	tCO ₂ e
2022/23	3,163	1,800	173	5,136	tCO ₂ e
2023/24	3,071	1,777	6,162	11,010	tCO ₂ e