Public Bodies Climate Change Duties Compliance Reporting Template 2022/23

1. Overview

This template is provided for public bodies required to report annually in accordance with the Climate Change (Duties of Public Bodies Reporting Requirements) (Scotland) Order 2015, as amended by the Climate Change (Duties of Public Bodies: Reporting Requirements) (Scotland) Amendment Order 2020 which took effect for reporting periods commencing on or after 1 April 2021.
Reports must be submitted to **ccreporting@ed.ac.uk by 30th November**. Late submissions will not be accepted for analysis and may be deemed non-compliant with Public Bodies Duties reporting requirements.

2. Guidance

1. The "Profile of Body" tab must be completed before proceeding to add any other data.

2. Question 1f must be completed to ensure the correct emission factors are applied in Q3b.

3. If you need to add more rows in any table please email the file ccreporting@ed.ac.uk

4. More emission factors from the UK Government (DESNZ) release have been included this year. When completing Q3b you can filter by the Emission Type dropdown in column C.

5. Please only use the "Other" emission source rows (130 onwards) when there is no relevant emission source in the dropdown lists or if you have bespoke data/emission factors. Please provide a brief explanation in the comment field.

6. The water supply and sewage emission factors are based on Scottish Water's carbon intensities of service supply, one of the lowest in the UK water industry. If you still wish to use the UK DESNZ (formerly BEIS) factors (which are more than double) you will need to enter consumption data in an "Other" row.

7. Some auto-checks have been added to improve the quality of data entries, e.g. correct emission scopes where only one category ever applies.

8. More detailed reporting guidance is available on the SSN website.

3. Colour Coding used in the template

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

Public Sector Report on Compliance with Climate Change Duties 2023 Template

PART 1 Profile of Reporting Body

1a Name of reporting body

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

University of Aberdeen

1b Type of body

Select from the options below

Educational Institution

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

2760 **THIS MUST BE COMPLETED**

1d Metrics used by the body

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

Metric	Units	Value	Comments
Floor area	m2	267985.00	HESA 2021-2022 Data - GIA
Floor area	m2	201868.00	HESA 2021-2022 Data - Non-Residential
Number of full-time equivalent students	number FTS	13315.00	HESA 2021-2022 Data - FTE
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Please select from drop down box			
Other (please specify in comments)			
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)			
Other (please specify in comments)			

1e Overall budget of the body

Specify approximate £/annum for the report year.

Budget	Budget Comments
£260,909,000	The figure at 1e is taken from the Annual Report and Accounts 2021/22. The equivalent figure for 2022/23 will be available after the approval of our 2021/2022 Annual Report and Accounts at Court in December 2023.

1f Report type

Specify the report year type

Report type	Report year comments
Academic	1st August 2022 - 31st July 2023

THIS MUST BE COMPLETED

1g Context

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

The University of Aberdeen is a research-intensive, ancient University with two main academic campuses in Aberdeen i.e. at Old Aberdeen and Foresterhill, and a residential campus at Hillhead. We also work in partnership with the Al-Faleh Group (AFG) in Doha, Qatar where we deliver teaching in buildings owned and operated by the Al-Faleh Group.

The University has research interests, collaborative relationships, and student recruitment interests around the world.

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PART 2 Governance, Management and Strategy

Governance and management

2a How is climate change governed in the body?

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

The University launched its Aberdeen 2040 strategy in February 2020. That strategy provides the high-level framework within which all institutional priorities are considered. It has four main thematic strands, one of which is sustainability (the others are inclusive, interdisciplinary, and international).

As part of the associated governance structures, all sustainability related issues are overseen by a Sustainable Development Committee (SDC) which is chaired by the Senior Vice-Principal (SVP). Alongside the SVP, the SDC includes nominated representatives from the Vice-Principals with responsibility for Research, Education and Global Engagement, the University Secretary/COO, and the Dean for Environmental Sustainability. There is also representation from Schools (Head of School representatives) and Professional Services directorates (i.e., Digital & Information Services, Estates & Facilities, Finance, Planning and Research & Innovation) and other academic leaders (including elected Senators, a representative from the Interdisciplinary Centres), a trades union representative, and representation from the student body.

Full details of the remit and composition of the SDC are available at https://www.abdn.ac.uk/staffnet/governance/sustainable-development-committee.php

SDC reports via the University's Senior Management Team and from there as required through the University committee structure e.g., to Court.

Management of compliance elements (e.g., waste management and emissions) is overseen by our Directorate of Estates & Facilities.

The current organisational committee structure chart is available at https://www.abdn.ac.uk/staffnet/governance/minutes-and-agendas-135.php

<Insert Diagram Here or Attach File>

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

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

The Sustainable Development Committee (SDC) was established following the launch of the Aberdeen 2040 strategy (initially as the Sustainability Steering Group). It replaced a long-standing Advisory Group on Sustainability & Social Responsibility.

SDC meets regularly (usually quarterly) and co-ordinates the development, implementation and review of all operational sustainability related commitments as outlined in the Aberdeen 2040 strategic plan. SDC reports via the University's Senior Management Team as required through the University committee structure e.g., to Court. Among its duties, it reviews implementation plans linked to Aberdeen 2040, oversees Environmental Sustainability risks from the institutional Strategic Risk Register, and sets the direction for our sustainability commitments.

Full details of the attendees are at 2a above, but it should be noted that academic disciplines and the student voice are also well represented.

Functional responsibility for management of our sustainability and net-zero planning lies with our Directorate of Estates & Facilities (e.g., Waste, Transport, Water, Energy, Buildings, Net Zero). We are in the process of transitioning away from a series of rolling five-year Carbon Management Plans to a longer-term Net-Zero strategy. The Net Zero & Emissions Manager is currently leading the development of a comprehensive Net-Zero Strategy that we aim to have in place during 2023/24.

Sub-groups and boards are established as required. Currently we have a Sustainable Heating Programme Board (chaired by the Vice-Principal for Regional Engagement) looking into the options for decarbonisation of our heat networks in Old Aberdeen, and a Net-Zero Strategy & Targets Working Group (chaired by the Dean for Environmental Sustainability) developing a comprehensive net-zero strategy.

Full details of the SDC are available at https://www.abdn.ac.uk/staffnet/governance/sustainable-development-committee.php

<Insert Diagram Here or Attach File>

Strategy

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

Provide a brief summary of objectives if they exist.

Wording of objective	Name of document	Document Link
Encourage everyone within our community to work and live sustainably, recognising the importance of our time, energy and resilience.	Aberdeen 2040	https://www.abdn.ac.uk/2040/documents/Aberdeen2040-EN.pdf
Educate all our students and staff to be leaders in protecting the environment.	Aberdeen 2040	https://www.abdn.ac.uk/2040/documents/Aberdeen2040-EN.pdf
Excel in research that addresses the climate emergency, enables energy transition and the preservation of biodiversity.	Aberdeen 2040	https://www.abdn.ac.uk/2040/documents/Aberdeen2040-EN.pdf
Achieve net-zero carbon emissions before 2040.	Aberdeen 2040	https://www.abdn.ac.uk/2040/documents/Aberdeen2040-EN.pdf

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.

The University's most recent 5-year Carbon Management Plan (CMP) covered the period 2016 - 2021. It was drafted to reflect the format of the Public Bodies Climate Change Duties (PBCCD) reporting and provided a project-focussed framework for action in that five-year period. It was formally approved during 2016/17 and remains available online at https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/CMP-2016_2021-Final.pdf

Significant progress was made against the targets in that plan. Our overall emissions reduction target (i.e., across a consistent but limited basket of Scope 1, 2 & 3 emissions) fell from the baseline of 31,520 tC02e in 2015/16 to 21,332 in 2018/19 (the last full year of data prior to the pandemic) - exceeding the five-year target of a 20% reduction in year 3 of 5. By 2020/21 emissions against the same reporting categories (with the inclusion of an allowance for home working) reduced to 16,992 tC02e (see Section 3). However, the considerable impact of the pandemic on campus operations and business travel makes meaningful comparison with pre-pandemic years difficult.

In 2020, as part of the Aberdeen 2040 process, we made a long-term commitment to make the University net-zero before 2040. Initial work has been undertaken during 2021 and 2022 to understand the scope of that challenge and the need for additional resources was identified. A new Net Zero & Emissions Manager was appointed in August 2022 and is leading the development of a detailed Net Zero Strategy via a dedicated Working Group chaired by the Dean for Environmental Sustainability. This strategy will provide decarbonisation pathways and targets. We aim to have that strategy finalised during 2023/24 and in place by the start of the 24/25 academic year.

Separately a Sustainable Heating Programme Board (chaired by the Vice-Principal for Regional Engagement) has been tasked with reviewing and appraising options for the decarbonisation of our heating networks in Old Aberdeen and Hillhead. That Board is working towards recommendations in 2024.

Reflecting the wider net-zero commitment, we signed the Global Climate Letter (aka Race to Zero) and the One Planet Pledge in 2020 and, in September 2021, committed to divestment from fossil fuels by 2025. Since that decision was made, our investment exposure to fossil fuels dropped from 2.38% in May '21 to 0.36% in July 2022 Further details of the latter are at https://www.abdn.ac.uk/about/sustainable/fossil-fuel-divestment.php

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

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

Topic area	Name of document	Link	Time period covered	Comments
Adaptation	n/a	n/a	n/a	
Business travel	Sustainable Business Travel Guiding Principles	https://www.abdn.ac.uk/about/sustainable/sustainable-business-travel-2484#panel2496	Extant until reviewed. Initial targets set for 2025.	New approach to Business Travel adopted in November 2022.
Staff Travel	Sustainable Travel Plan	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/Sustainable_Travel_Plan.pdf	2018/22	
Energy efficiency	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	
Fleet transport	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	
ICT	n/a	n/a	n/a	
Renewable energy	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	
Sustainable/renewable heat	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	
Waste management	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	
Water and sewerage	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	
Land Use	Estates Strategy	n/a	n/a	New Estates Strategy in development alongside a major Campus Reimagining process.
Other (please specify in comments)	Environmental Sustainability Policy	https://www.abdn.ac.uk/staffnet/documents/policy-zone-sustainability/SSR-EnviroSustainPolicy.pdf	Extant until next policy review (last reviewed Jan 2019).	Buildings (New Build, Refurbishment & Extension)
Please select from drop down box				

2f What are the body's top 5 priorities for climate change governance, management and strategy for the year ahead?

Provide a brief summary of the body's areas and activities of focus for the year ahead.

The supporting documentation for the sustainability commitments in our Aberdeen 2040 strategy identify the following five headline commitments that cover environmental and financial sustainability:

- Encourage everyone within our community to work and live sustainably, recognising the importance of our time, energy and resilience.
- Educate all our students and staff to be leaders in protecting the environment.
- Excel in research that addresses the climate emergency, enables energy transition and the preservation of biodiversity.
- Achieve net zero carbon emissions before 2040.
- Generate resources for investment in education and research year on year, so that we can continue to develop the people, ideas and actions that help us to fulfil our purpose.

Action and implementation plans are in place under each of the headline commitments.

Among the key sustainability themes that have emerged in subsequent discussion are:
- academic and operational contributions to the net-zero debate;
- sustainability literacy;
- the role of the University in leading the energy transition;
- the role and importance of the Sustainable Development Goals in articulating institutional impact;
- and the impact of business travel and related emissions.

In 2023/2024 our main focus will be on the following priority areas:
- Finalisation of our Net-Zero Strategy which is currently in advanced development via a dedicated Net Zero Strategy & Targets Working Group (chaired by the Dean for Environmental Sustainability).
- Embedding of our Net-Zero project register (which aggregates various types of campus intervention required to move towards net-zero) more formally within a long-term approach to all campus development i.e. as part of parallel Estates Strategy and Campus Reimagining initiatives. Capacity permitting we will also update the sustainability component of our design guide (including a section on adaptation). This will include the incorporation of heat decarbonisation recommendations that emerge from the Sustainable Heating Programme Board (chaired by the Vice-Principal for Regional Engagement).
- Introduction of a bespoke training module for staff to highlight the role we all have in tackling sustainability issues and putting this in the context of the climate and nature emergencies.
- Policy activity to include development of a new Biodiversity Policy and Action Plan (following our first Climate and Sustainabiity Assembly on this issue) and a wider review of existing sustainability policies.
- Development of recommendations and structures emerging from our 'Green Labs' Climate and Sustainability Assembly, aiming to have in place a framework that supports an institution-wide approach to improving sustainability practices in our research and teaching laboratories.
- Development of a light-touch reporting framework that invites professional services Directorates and academic Schools to consider the material sustainability issues they can directly influence e.g. business travel, procurement, laboratory practice.

2g Has the body used the Climate Change Assessment Tool (a) or equivalent tool to self-assess its capability / performance?

If yes, please provide details of the key findings and resultant action taken.

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

The CCAT tool was consulted as part of the development of the 2016-2021 Carbon Management Plan but was not used to conduct a formal assessment.

The CFPF tool was used to inform the revised project-based format for the 2016-2021 Carbon Management Plan and has formed the basis of the Net Zero project register.

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.

As the global impacts of climate change become ever more apparent, the sustainability commitments within our Aberdeen 2040 strategy and the associated actions we have identified, remain as critical as ever. 2022/23 has seen the immediate impact of establishing a dedicated Sustainability team in the Estates & Facilities directorate, and the related appointment of an academic Dean for Environmental Sustainability, with momentum generated in a number of areas.

At the heart of our Aberdeen 2040 commitments is a net-zero emissions pledge, with the aim of achieving net-zero before 2040. In operational terms our primary focus for 2023/24 is the finalisation of our net zero strategy and the identification of appropriate KPIs, pathways and associated projects. This work is being undertaken in a dedicated Net Zero Strategy & Targets Working Group chaired by our Dean for Environmental Sustainability, with the detailed work co-ordinated by our Net Zero & Emissions Manager. We are also working on an options appraisal as part of the development of recommendations for the eventual decarbonisation of our heating networks in Old Aberdeen and Hillhead. This work is being undertaken in the Sustainable Heating Programme Board, chaired by our Vice-Principal for Regional Engagement.

As part of our wider net zero journey, we have continued to revise our approach to emissions reporting. For 2022/23 we have again embraced the expectation that we expand our statutory reporting of so-called Scope 3 emissions. In 2021/22 we took the step of including procurement emissions for the first time, and in 2022/23 we have enhanced our reporting further by including several new emissions categories, most notably emissions associated with student travel from around the world to study in Aberdeen. While this best practice approach considerably increases our reported emissions, this expansion is in line with expectations on public bodies to improve the granularity of their reporting. The collation and publication of a comprehensive range of emissions data via a user-friendly PowerBI online platform has also contributed to enhanced transparency by making our emissions data widely available online. As part of improving our emissions reporting, we acknowledge the exceptional work of an intern who developed an emissions tool for us, and which has now been further developed for use by the sector. In a project undertaken as part of the successful InternPlus scheme, an undergraduate Engineering student developed an innovative emissions calculation tool for the emissions impact of students travelling from around the world to study in Aberdeen. Such is the sector's demand for improved emissions reporting, this tool has since been embraced, adapted and shared as best-practice by the EAUC.
(see https://www.sustainabilityexchange.ac.uk/calculating_international_student_travel_emissi)

In 2022/23, as part of an effort to engage our student and academic community more directly in discussion of our sustainability commitments, we launched our inaugural Climate and Sustainability Assembly programme with a biodiversity themed event. These events are designed to enable staff and students to come together to share their thoughts on aspects of sustainability, with the explicit intention of informing policy and directing visible action on campus. The biodiversity event saw over 50 staff and students gather to discuss and inform opportunities to enhance our campuses and improve our nature-positive credentials. Subsequent work has included habitat mapping of our grounds, changes in the management of some greenspaces to encourage biodiversity and plans to develop a new policy and action plan that will focus effort on restoring biodiversity on our campus. A further Assembly to galvanise and encourage a campus-wide focus on the greening of our laboratory practices saw 60 colleagues gather in the autumn of 2023 to discuss action to reduce laboratory waste, improve energy efficiency, and instil more sustainable approaches to the conduct of experiments and practicals.

The Sustainable Development Goals (SDGs) continue to inform our wider sustainability discussions and serve as a lens through which to reflect on the impact of our research, teaching and operational activities. 2022 saw us produce a second SDG Report (with a third in development for 2023). These efforts have been recognised in various league tables, including the 2023 Times Higher Education Impact ranking which saw the University ranked 70th globally and 18th in the UK, with SDG 17 "Partnership for the Goals" ranking us 1st in the UK and 4th globally. Strong performances in several SDGs, with all 17 in the top quartile globally, represented a very positive result. Also in 2022/23, the first QS Sustainability ranking was published, with the University ranked 64th globally and 17th in the UK. This new assessment, based on environmental and social impact, notably highlighted the University's contribution to sustainable education, where Aberdeen was ranked 13th globally and 2nd in the UK. This was further reinforced by the main QS World Ranking for 2024 which saw the University ranked 4th in the UK and 21st globally for sustainability.

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PART 3 Corporate Emissions, Targets and Project Data

Emissions

3a **Emissions from the start of the year which the body uses as a baseline (for its carbon footprint) to the end of the report year**

Complete the following table using the greenhouse gas emissions total for the body calculated on the same basis as for its annual carbon footprint / management reporting or, where applicable, its sustainability reporting. Include greenhouse gas emissions from the body's estate and operations (a) (measured and reported in accordance with Scopes 1 & 2 and, to the

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

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

ENSURE QUESTION 1f IS COMPLETED BEFORE STARTING THIS SECTION, THEN SELECT APPROPRIATE BASELINE YEAR. TOTAL EMISSIONS IN THE MOST RECENT FOOTPRINT YEAR IN THIS QUESTION SHOULD EQUAL TOTAL EMISSIONS IN Q28

Reference year	Year	Year type	Scope 1	Scope 2	Scope 3	Total	Units	Comments
Baseline Year	2015/16	Academic	13,332.30	11,318.85	6,869.02	31,520.17	tCO_2e	Adjustment of scope sources to correct historic errors. Total university emissions remain unchanged
Year 1 carbon footprint	2016/17	Academic	13,017.94	9,433.94	5,536.67	27,988.56	tCO_2e	Adjustment of scope sources to correct historic errors. Total university emissions remain unchanged
Year 2 carbon footprint	2017/18	Academic	12,641.01	6,731.87	5,082.14	24,455.02	tCO_2e	Adjustment of scope sources to correct historic errors. Total university emissions remain unchanged
Year 3 carbon footprint	2018/19	Academic	10,436.37	6,050.09	4,845.30	21,331.76	tCO_2e	Adjustment of scope sources to correct historic errors. Total university emissions remain unchanged
Year 4 carbon footprint	2019/20	Academic	10,148.20	7,595.78	2,994.38	20,738.36	tCO_2e	Adjustment of scope sources to correct historic errors. Total university emissions remain unchanged. COVID-19 impact from March 2020
Year 5 carbon footprint	2020/21	Academic	10,353.71	5,307.60	1,330.57	16,991.88	tCO_2e	Adjustment of scope sources to correct historic errors. Total university emissions remain unchanged. COVID-19 impact for full reporting year
Year 6 carbon footprint	2021/22	Academic	10,200.14	3,594.97	36,668.26	50,463.37	tCO_2e	**Update of Reporting Boundaries** Inclusion of Procurement related Scope 3 emissions has resulted in a significant increase in Scope 3 emissions. The reporting boundaries used in previous years would have resulted in a total emissions profile of 15,620 tCO2e for 21/22 which represents a like-for-like reduction of 8.07% on 20/21. **Update of NHS Grid Electricity Methodology** An update to the way we calculate Grid Electricity consumption procured through the NHS for our Foresterhill site has identified a historic over-reporting. Addressing this for this year has resulted in a reduction of 911.5 tCO2e in Scope 2 emissions compared to that which we would have declared had the previous methodology been applied.
Year 7 carbon footprint	2022/23	Academic	9,701.24	4,157.35	50,535.86	64,394.45	tCO_2e	**Update of Reporting Boundaries** Inclusion of Student Relocation, Well-to-Tank, and Staff Commuting related Scope 3 emissions has resulted in a significant increase in Scope 3 emissions. The reporting boundaries used in previous years would have resulted in a total emissions profile of 45,290.2 tCO2e for 22/23 which represents a like-for-like reduction of 10.25% on 21/22.
Year 8 carbon footprint	0	Academic				-	tCO_2e	
Year 9 carbon footprint	0	Academic				-	tCO_2e	
Year 10 carbon footprint	0	Academic				-	tCO_2e	
Year 11 carbon footprint	0	Academic				-	tCO_2e	
Year 12 carbon footprint	0	Academic				-	tCO_2e	
Year 13 carbon footprint	0	Academic				-	tCO_2e	
Year 14 carbon footprint	0	Academic				-	tCO_2e	
Year 15 carbon footprint	0	Academic				-	tCO_2e	
Year 16 carbon footprint	0	Academic				-	tCO_2e	
Year 17 carbon footprint	0	Academic				-	tCO_2e	

3b **Breakdown of emissions sources**

Complete the following table with the breakdown of emission sources from the body's most recent carbon footprint (greenhouse gas inventory); this should correspond to the last entry in the table in 3(a) above. Use the 'Comments' column to explain what is included within each category of emission source entered in the first column. If there is no data consumption available for an emission source enter the emissions in kgCO2e in the 'Consumption' column

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

Emission Factor Year 2023 The emission factor year is auto-assigned based on your answer to Q1f, if it is incorrect please contact SSN.

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

User defined emission sources can be entered in rows 130 onwards. Please only use these if you cannot find a relevant emission source in the dropdown list or you have a bespoke emission factor or non-standard derivation of emissions e.g. based on a survey/consumption data. If you require extra rows in the table please send the template to ccreporting@ed.ac.uk.

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

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

Emission Type	Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (tCO_2e)	Comments	
Fuels	Diesel (average biofuel blend)	Scope 1	18,128	litres	2.51206	kg CO2e/litres	45.53799	Fleet vehicles Data gathered from fuel cards	
Fuels	Petrol (average biofuel blend)	Scope 1	3,768	litres	2.09747	kg CO2e/litres	7.90240	Fleet vehicles Data gathered from fuel cards	
Fuels	Natural gas	Scope 1	52,501,422	kWh	0.18293	kg CO2e/kWh	9604.02872	Natural gas consumed for heat generation (boilers) and by a Combined Heat and Power (CHP) engine which generates 70% of the Old Aberdeen Campus's electricity demand. The reduction in consumption compared to the previous year is due to a number of completed projects and M&T programmes, and also due to the CHP engine being offline for a major service for a prolonged period.	
Fuels	Gas oil	Scope 1		litres	2.75541	kg CO2e/litres	0.00000	Used by the Grounds team No consumption in reporting year	Please state in comments if this value is 0 because no emissions exist or if emissions likely exist, but are unknown
Fuels	Gas oil	Scope 1	155,864	kWh	0.25650	kg CO2e/kWh	39.97850	Consumed for heat generation	
Fuels	LPG	Scope 1	17,678	kWh	0.21450	kg CO2e/kWh	3.79182	Consumed for heat generation	
Electricity	Electricity: UK	Scope 2	13,392,997	kWh	0.20707	kg CO2e/kWh	2773.34540	Includes the following: - Half Hourly Grid Electricity* - Non Half Hourly Grid Electricity* - Grid Electricity purchased from NHS at the Foresterhill Campus. * EDF supplied University of Aberdeen with renewable, REGO backed, grid electricity during the period 1st April 2022 to 31st March 2023. At the time of submission, the University is awaiting the issue of the REGO certificate. The increase in consumption is due to the gas-fired CHP engine being offline for a prolonged period (major service) during which time 100% of campus demand has to be from the grid (typically 30% with CHP operating). Note that the electricity supplied to us by the NHS on our Foresterhill site consists of a combination of Grid Electricity and electricity generated by the NHS' own on-site CHP. In previous years we have simply declared all electricity used on the Foresterhill site, but this failed to take account of the fact that we were also procuring steam from the NHS CHP to heat our buildings. To address this, the monthly ratio between grid and CHP electricity has been used to calculate the actual grid consumption of the University. The emissions resulting from CHP generated electricity are effectively accounted for under the 'steam' emissions factor as we also procure steam from the NHS CHP. This eliminates a double counting of these emissions.	
Heat and steam	District heat and steam	Scope 2	7,704,041	kWh	0.17965	kg CO2e/kWh	1384.00449	Steam consumed on the Foresterhill Medical Campus, purchased from NHS Grampian through their CHP District Heating Network located on site. 7.6% of the steam consumed is generated by a biomass boiler.	
Electricity	Transmission and distribution - Electricity: UK	Scope 3	13,392,997	kWh	0.01792	kg CO2e/kWh	239.93704		
Water	Water supply	Scope 3	153,496	cubic metres	0.10000	kg CO2e/cubic metres	15.34957	Consumption is based on monthly meter reads taken by the University. 2022/2023 saw a 21.7% increase in freshwater consumption as a result of leaks in the district heating networks operated by the University.	
Water	Water treatment	Scope 3	150,034	cubic metres	0.19000	kg CO2e/cubic metres	28.50644	As waste water is not metered, volume assumed to be 95% of water supplied to the University plus 100% of captured rain water.	
Homeworking	Homeworking (office equipment + heating)	Scope 3	1,465,452	FTE Working Hour	0.33378	kg CO2e/FTE Working Hour	489.14043	Using WFH practice data gathered as part of a recent University staff travel survey (undertaken every 2 years) and based on annualised FTE hour estimates of 1,950 for academic and academic related staff, and 1,898 for support staff. Significant increase due to change to PBCCD reporting methodology for WFH emissions.	
Transport - car	Average car - Unknown	Scope 3	1,116,585	km	0.16664	kg CO2e/km	186.06618	Student Relocation - Home (Scotland) - Car (Average). Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - public	National rail	Scope 3	194,189	passenger.km	0.03546	kg CO2e/passenger.km	6.88651	Student Relocation - Home (Scotland) - Rail (National Rail) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - public	Average local bus	Scope 3	1,116,585	passenger.km	0.10215	kg CO2e/passenger.km	114.05962	Student Relocation - Home (Scotland) - Bus (Local Bus) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - car	Average car - Unknown	Scope 3	473,649	km	0.16664	kg CO2e/km	78.92827	Student Relocation - UK (Non-Scotland) - Car (Average). Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - public	National rail	Scope 3	473,649	passenger.km	0.03546	kg CO2e/passenger.km	16.79701	Student Relocation - UK (Non-Scotland) - Rail (National Rail) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - public	Average local bus	Scope 3	4,112	passenger.km	0.10215	kg CO2e/passenger.km	0.42005	Student Relocation - UK (Non-Scotland) - Bus (Local Bus) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - public	Coach	Scope 3	4,112	passenger.km	0.02718	kg CO2e/passenger.km	0.11177	Student Relocation - UK (Non-Scotland) - Coach Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).	
Transport - public	Flights - Domestic, to/from UK - Average passenger	Scope 3	780,881	passenger.km	0.27258	kg CO2e/passenger.km	212.84994	Business Travel Data from University finance system	
Transport - public	Flights - Short-haul, to/from UK - Average passenger	Scope 3	4,569,347	passenger.km	0.18592	kg CO2e/passenger.km	849.51994	Business Travel Data from University finance system	
Transport - public	Average local bus	Scope 3	114,369	passenger.km	0.10215	kg CO2e/passenger.km	11.68288	Business Travel Data from University finance system	
Transport - car	Average car - Unknown	Scope 3	888,552	km	0.16664	kg CO2e/km	148.06713	Business Travel Data from University finance system	
Transport - public	Ferry - Average (all passenger)	Scope 3	37,622	passenger.km	0.11270	kg CO2e/passenger.km	4.23992	Business Travel Data from University finance system	
Fuels	Diesel (average biofuel blend)	Scope 3	8,671	litres	2.51206	kg CO2e/litres	21.78190	Business Travel Data from University finance system	
Fuels	LPG	Scope 3	29	litres	1.55713	kg CO2e/litres	0.04516	Business Travel Data from University finance system	
Fuels	Petrol (average biofuel blend)	Scope 3	16,974	litres	2.09747	kg CO2e/litres	35.60215	Business Travel Data from University finance system	
Transport - public	Regular taxi	Scope 3	56,199	passenger.km	0.14861	kg CO2e/passenger.km	8.35198	Business Travel Data from University finance system	
Transport - public	National rail	Scope 3	752,162	passenger.km	0.03546	kg CO2e/passenger.km	26.67389	Business Travel Data from University finance system	
Transport - public	London Underground	Scope 3	13,495	passenger.km	0.02780	kg CO2e/passenger.km	0.37520	Business Travel Data from University finance system	
Transport - public	Flights - Domestic, to/from UK - Average passenger	Scope 3	562,875	passenger.km	0.27258	kg CO2e/passenger.km	153.42670	Business Travel Data from University travel provider	
Transport - public	Flights - Short-haul, to/from UK - Average passenger	Scope 3	478,836	passenger.km	0.18592	kg CO2e/passenger.km	89.02373	Business Travel Data from University travel provider	
Transport - public	Flights - Long-haul, to/from UK - Average passenger	Scope 3	1,773,359	passenger.km	0.26128	kg CO2e/passenger.km	463.34440	Business Travel Data from University travel provider	
Transport - public	National rail	Scope 3	327,744	passenger.km	0.03546	kg CO2e/passenger.km	11.62279	Business Travel Data from University travel provider	
Transport - car	Average car - Unknown	Scope 3	203,598	km	0.16664	kg CO2e/km	33.92722	Business Travel Car rental	
Transport - public	Average local bus	Scope 3	36,082	passenger.km	0.10215	kg CO2e/passenger.km	3.68576	Business Travel University shuttle bus	
Transport - public	Flights - International, to/from non-UK - Average passenger	Scope 3	984,920	passenger.km	0.17580	kg CO2e/passenger.km	173.14894	Business Travel Data from University finance system Covers international and long-haul flights (average passenger)	
Transport - public	Flights - International, to/from non-UK - Average passenger	Scope 3	1,972,429	passenger.km	0.17580	kg CO2e/passenger.km	346.75306	Business Travel Data from University travel provider International Flights (average passenger)	
Waste	Asbestos - Landfill	Scope 3	4	tonnes	5.91332	kg CO2e/tonnes	0.02153		
Waste	Commercial and industrial waste - Combustion	Scope 3	1	tonnes	21.28081	kg CO2e/tonnes	0.01809		
Waste	Paper and board: mixed - Recycled	Scope 3	108	tonnes	21.28081	kg CO2e/tonnes	2.30861		
Waste	Glass - Recycled	Scope 3	4	tonnes	21.28081	kg CO2e/tonnes	0.07540		

Waste	Metal: scrap metal - Recycled	Scope 3	43	tonnes	21.28081	kg CO2e/tonnes	0.91976	
Waste	Wood - Recycled	Scope 3	56	tonnes	21.28081	kg CO2e/tonnes	1.19641	
Waste	Organic garden waste - Composting	Scope 3	252	tonnes	8.91242	kg CO2e/tonnes	2.24450	
Waste	Organic mixed food and garden waste - Composting	Scope 3	30	tonnes	8.91242	kg CO2e/tonnes	0.26505	
Waste	Commercial and industrial waste - Combustion	Scope 3	282	tonnes	21.28081	kg CO2e/tonnes	6.00602	
Transport - car	Average car - Unknown	Scope 3	11,499,355	km	0.16664	kg CO2e/km	1916.23636	Staff Commuting (37.3% Response Rate to bi-annual travel survey. Extrapolated up for all staff) Car – Driver
Transport - car	Average car - Unknown	Scope 3	284,205	km	0.16664	kg CO2e/km	47.35945	Staff Commuting (37.3% Response Rate to bi-annual travel survey. Extrapolated up for all staff) Car – Passenger (drop off and return)
Transport - public	Average local bus	Scope 3	1,228,365	passenger.km	0.10215	kg CO2e/passenger.km	125.47798	Staff Commuting (37.3% Response Rate to bi-annual travel survey. Extrapolated up for all staff) Local Bus
Transport - public	National rail	Scope 3	1,168,245	passenger.km	0.03546	kg CO2e/passenger.km	41.42943	Staff Commuting (37.3% Response Rate to bi-annual travel survey. Extrapolated up for all staff) National Rail
Transport - public	Regular taxi	Scope 3	4,112	passenger.km	0.14861	kg CO2e/passenger.km	0.61112	Student Relocation - UK (Non-Scotland) - Regular Taxi Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Flights - Domestic, to/from UK - Average passenger	Scope 3	934.962	passenger.km	0.27258	kg CO2e/passenger.km	254.84907	Student Relocation - UK (Non-Scotland) - Domestic Flight (Average) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Average local bus	Scope 3	29,673	passenger.km	0.10215	kg CO2e/passenger.km	3.03111	Student Relocation - International - Bus (Local Bus) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Coach	Scope 3	29,673	passenger.km	0.02718	kg CO2e/passenger.km	0.80655	Student Relocation - International - Coach Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Regular taxi	Scope 3	29,673	passenger.km	0.14861	kg CO2e/passenger.km	4.40985	Student Relocation - International - Regular Taxi Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Flights - Domestic, to/from UK - Average passenger	Scope 3	7,115.695	passenger.km	0.27258	kg CO2e/passenger.km	1939.57335	Student Relocation - International - Domestic Flight (Average) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Flights - Short-haul, to/from UK - Economy class	Scope 3	3,546.143	passenger.km	0.18287	kg CO2e/passenger.km	648.48090	Student Relocation - International - Short-Haul Flight (Economy) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transport - public	Flights - Long-haul, to/from UK - Economy class	Scope 3	55,993.754	passenger.km	0.20011	kg CO2e/passenger.km	11204.81387	Student Relocation - International - Long-Haul Flight (Economy) Using the "Domestic and International Student Relocation Travel Emissions Calculator" Tool developed by the University of Aberdeen in collaboration with EAUC Scotland. Travel method assumptions developed from the results of a recent University student travel survey (undertaken every 2 years).
Transmission & Distribution	Other (please specify in comments)	Scope 3	7,704,041	kWh	0.0094500	kg CO2e/kWh	72.803	Purchased Steam Transmission & Distribution
Well-to-Tank	Other (please specify in comments)	Scope 3	18,128	litres	0.6110100	kg CO2e/litres	11.076	Well-to-Tank Emissions Diesel (Fleet Vehicles - Scope 1)
Well-to-Tank	Other (please specify in comments)	Scope 3	3,768	litres	0.5809400	kg CO2e/litres	2.189	Well-to-Tank Emissions Petrol (Fleet Vehicles - Scope 1)
Well-to-Tank	Other (please specify in comments)	Scope 3	52,501,422	kWh	0.0302100	kg CO2e/kWh	1,586.068	Well-to-Tank Emissions Natural Gas (Scope 1)
Well-to-Tank	Other (please specify in comments)	Scope 3	-	Litres	0.6266500	kg CO2e/litres	-	Well-to-Tank Emissions Gas oil (Grounds - Scope 1) - Note - no consumption in reporting year
Well-to-Tank	Other (please specify in comments)	Scope 3	155,864	kWh	0.0591300	kg CO2e/kWh	9.216	Well-to-Tank Emissions Gas oil (Heating - Scope 1)
Well-to-Tank	Other (please specify in comments)	Scope 3	17,678	kWh	0.0254800	kg CO2e/kWh	0.450	Well-to-Tank Emissions LPG (Heating - Scope 1)
Well-to-Tank	Other (please specify in comments)	Scope 3	13,392,997	kWh	0.0459000	kg CO2e/kWh	614.739	Well-to-Tank Emissions Grid Electricity (Generation - Scope 2)
Well-to-Tank	Other (please specify in comments)	Scope 3	7,704,041	kWh	0.0334100	kg CO2e/kWh	257.392	Well-to-Tank Emissions Purchased Heat and Steam (Generation - Scope 2)
Well-to-Tank	Other (please specify in comments)	Scope 3	13,392,997	kWh	0.0039700	kg CO2e/kWh	53.170	Well-to-Tank Emissions Transmission & Distribution (Grid Electricity - Scope 3)
Well-to-Tank	Other (please specify in comments)	Scope 3	7,704,041	kWh	0.0017584	kg CO2e/kWh	13.547	Well-to-Tank Emissions Transmission & Distribution (Purchased Heat and Steam - Scope 3)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	334.848	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Construction (APUC E3SCCON)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	1,487.066	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Other procurement (APUC E3SCOTH)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	912.858	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Other manufactured products (APUC E3SCMP)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	10,099.114	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Medical and precision instruments (APUC E3SCMPI)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	5,863.684	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Business services (APUC E3SCBS)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	7,426.329	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - ICT (APUC E3SCICT)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	256.530	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Paper products (APUC E3SCPP)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	17.673	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Waste and water (APUC E3SCWW)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	783.523	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Manufactured fuels, chemicals, and gases (APUC E3SCMFCG)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	474.235	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Food and catering (APUC E3SCFC)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	283.565	Please note these emissions are calculated from the University's 2022/2023 procurement activity through the HESCET tool. Procurement - Unclassified (APUC E3SCUNC)
Waste	Other (please specify in comments)	Scope 3	32	tonnes	21.2808072	kg CO2e/tonnes	0.674	Waste Other Recyclates & Residual - Recycle
Waste	Other (please specify in comments)	Scope 3	82	tonnes	21.2808072	kg CO2e/tonnes	1.739	Waste DMR - Recycle
Waste	Other (please specify in comments)	Scope 3	29	tonnes	21.2808072	kg CO2e/tonnes	0.614	Waste Clinical - EfW
Waste	Other (please specify in comments)	Scope 3	2	tonnes	21.2808072	kg CO2e/tonnes	0.049	Waste Sanitary - EfW
Transport	Other (please specify in comments)	Scope 3	19,812	km	0.1136700	kg CO2e/km	2.252	Staff Commuting (37.3% Response Rate to bi-annual travel survey. Extrapolated up for all staff) Motorcycle/Moped
							64,394.453	

Please state in comments if this value is 0 because no emissions exist or if emissions likely exist, but are unknown

3c **Generation, consumption and export of renewable energy**

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

	Renewable Electricty		Renewable Heat		
Technology	**Total consumed by the body (kWh)**	**Total exported (kWh)**	**Total consumed by the body (kWh)**	**Total exported (kWh)**	**Comments**
Solar PV	113,956	-			Solar PV is installed on the following buildings: - Science Teaching Hub - Sir Duncan Rice Library - Hillhead Student Village
Solar thermal		-	536	-	Rocking Horse Nursery (Passive House Design)
Air Source Heat Pump		-	127	-	Rocking Horse Nursery (Passive House Design)
Ground Source Heat Pump					1 system installed but no metering currently available
Please select from drop down box					

Targets

3d **Organisational targets**

List all of the body's targets of relevance to its climate change duties. Where applicable, targets for reducing indirect emissions of greenhouse gases, overall carbon targets and any separate land use, energy efficiency, waste, water, information and communication technology, transport, travel and heat targets should be included. Where applicable, you should also provide

Name of target	Type of target	Target	Units	Boundary/scope of target	Year used as baseline	Baseline figure	Units of baseline	Target completion year	Progress against target	Comments
2040 Net Zero Emissions Target - Overarching	Percentage	100	total % reduction	All emissions	2015/16	97,151	tCO2e	2039/40	On Target	Interim target is to see a 5% year-on-year reduction to 2025 pending the establishment of Net-Zero targets as part of new Net-Zero Strategy.
Business Travel reduction of 40% on 2018/19 faiures by 2025	Percentage	40	total % reduction	Staff travel	2018/19	4,166	tCO2e	2025/26	On target	Target is 2,500 tCO2e. Total in 2022/23 is 2,594 tCO2e in a year in which flight emissions factors rose substantially.
Reduce water consumption 2% year-on-year	Annual	2	total % reduction	Water and sewerage	2015/16	150,462	M3	Please select from drop down box	Not achieved.	2022/2023 saw a 21.7% increase in freshwater consumption due to a number of significant leaks in the two district heating networks operated by the University.
	Please select from drop down box		Please select from drop down box	Please select from drop down box	Please select from drop down box		Please select from drop down box	Please select from drop down box		

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

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

The University acknowledges that the financial cost of achieving Net Zero before 2040 will be significant. In this context we acknowledge the work co-ordinated by AUDE (Association of University Directors of Estates) during 2023 on the likely cost of net-zero to the HE and FE sectors. This work has provided institutions with a tool to estimate the scale of investment required to achieve net-zero and we are using this tool to support dialogue on how best to embed net-zero investment into long-term financial planning. In Aberdeen's case that tool estimated the direct cost of achieving net zero at £70.6M. In practice, we anticipate that once professional fees, contingencies, local market conditions and various other factors are considered, this will be an optimistic estimate.

As a result, it is expected that external funding sources (i.e., loans, grants, power purchase agreements, etc.) will be required to supplement any internal capital allocations. We have made a financial allocation in the capital plan for the forthcoming ten-year period, allocating £250,000 in 2022/2023 to 2024/2025, with £500,000 per annum thereafter. We are also currently developing and enhancing a register of net zero projects, including identifying the anticipated costs and benefits of those projects where those can be determined.

The work being undertaken in two strategic groups will inform and support this process. The Sustainable Heating Programme Board is working to develop long-term heat decarbonisation recommendations for our Old Aberdeen and Hillhead campuses, while the Net Zero Strategies and Targets Working Group is establishing the over-arching framework within which we expect to move forward with our net-zero journey.

Sequestering/Offsetting will also form part of our Net Zero strategy for any "unavoidable" emissions we cannot eliminate by 2040. The University intends to undertake a full investigation of offsetting in the near future. that analysis will aim to understand the costs, benefits, opportunities and limitations of this practice.

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

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

Simply referencing this report or it's availability on the SSN website is insufficient information.

Internally the University reports its progress towards its targets to the Sustainable Development Committee and KPIs related to the 20 headline commitments of Aberdeen 2040 (including Commitment 19 - net zero) are tracked annually as part of the institutional Annual Report and Accounts.

As part of the University's Aberdeen 2040 commitments, an online Sustainability Dashboard (utilising Power BI functionality) has been launched which provides open access to a breakdown of our emission sources, annual profiles including all three emissions Scopes, and energy related emissions for each building. The dashboard is available to staff, students, and the general public in an effort to improve the understanding and transparency of our emissions profile, and to chart our progress towards Net Zero (see https://www.abdn.ac.uk/about/sustainable/net-zero.php).

Additionally, with capacity now in place, we aim to reintroduce the practice of producing stand-alone annual Energy, Emissions, and Travel & Waste reports. These will be shared internally and made available externally via the University website and will offer more detailed operational perspectives on emissions and other operational performance. (https://www.abdn.ac.uk/about/sustainable/around-campus-159.php)

We will of course continue to utilise the annual Public Bodies Climate Change Duty exercise to detail our progress towards Net Zero, making this analysis available alongside the Power BI dashboard for public review. We will continue to engage fully in opportunities to discuss progress in HE sector forums e.g. via the EAUC, participating in sector-level discussion of Net Zero and sharing in the development and dissemination of best practice and policy (such as our lead role in the student travel emissions initiative in 2023).

Projects and changes

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

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

Emissions source	Total estimated annual carbon savings (tCO_2e)	Comments
Electricity	11	1 Project Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Natural gas	4	1 Project Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Other heating fuels		
Waste		
Water and sewerage		
Travel		
Fleet transport		
Other (please specify in comments)	14	Emission Source: Steam 1 Project Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Other (please specify in comments)	196	Emission Source: CHP Heat 3 Projects Savings from projects completed on the Old Aberdeen Campus where 24.4% of the heat demand is met by a natural gas fired CHP engine and 75.6% is from gas fired boilers. The annual Carbon Conversion Factor has been calculated (based on BEIS Natural Gas and Grid Electricity Factors) to be specific to this site: 0.2285kgCO2e/kWh. Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Other (please specify in comments)	37	Emission Source: CHP Electricity 8 Projects Savings from projects completed on the Old Aberdeen Campus where 60% of the electricity demand is met by a natural gas fired CHP engine and 40% is from the Grid. The annual Carbon Conversion Factor has been calculated (based on BEIS Natural Gas and Grid Electricity Factors) to be specific to this site: 0.3658kgCO2e/kWh. Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Travel		Unknown impact of bike to work salary sacrifice scheme
Please select from drop down box		
Total	**262**	

3f **Detail the top 10 carbon reduction projects to be carried out by the body in the report year**

Provide details of the 10 projects which are estimated to achieve the highest carbon savings during report year.

Project name	Funding source	First full year of CO_2e savings	Are these savings figures estimated or actual?	Capital cost (£)	Operational cost (£/annum)	Project lifetime (years)	Primary fuel/emission source saved	Estimated carbon savings per year (tCO_2e/annum)	Estimated costs savings (£/annum)	Behaviour Change	Comments
AHU Operations Optimisation	Internal Capital	2023/24	Actual				Natural gas	181	89,639.66	No	Optimisation of the Sir Duncan Rice Library's 4 AHUs operations
Cessation of STH Chiller Operations	Internal Capital	2023/24	Actual				Natural gas	22	13,200.00	No	Update of Science Teaching Hub chiller controls so that the chiller is off and free cooling is utilised
Suttie Controls Audit	Internal Capital	2023/24	Actual				District heat and steam	14	5,174.00	No	Controls audits of the Suttie Building
Hillhead Floodlighting LED Replacement	Internal Capital	2023/24	Actual				Electricity: UK	11	9,066.60	No	Upgrading 48x2kW pitch floodlighting to 44x1kW
Audit of STH Heating Schedules	Internal Capital	2023/24	Actual				Natural gas	8	3,850.00	No	Audit and adjustment of building heating schedule and set points to bring back in line with University policy
Installation of Zone Controls	Internal Capital	2023/24	Actual				Natural gas	6	3,052.04	No	Installation of controls to allow control of zone valves in University Office
Upgrade corridor lighting	Internal Capital	2023/24	Actual				Natural gas	5	3,217.28	No	Upgrade of corridor lighting to LEDs
Replace foyer lighting	Internal Capital	2023/24	Actual				Natural gas	5	2,807.42	No	Replacement of fluorescent lighting with LED panels
Connection of 46/48 College Bounds to BMS	Internal Capital	2023/24	Actual				Natural gas	4	1,380.53	No	Connection of 46/48 College Bounds to the BMS to centralise the controls
SDRL Plaza lights Upgrade	Internal Capital	2023/24	Actual				Natural gas	1	847.88	No	Replacement of 44 fluorescent lights with LED lights
	Please select from drop down box		Please select from drop down box				Please select from drop down box			Please select from dropdown box	

3z **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_2e)	Increase or decrease in emissions	Comments
Estate changes		Please select from drop down box	Unknown increase due to a key building being brought back online for school/staff expansions
Service provision		Please select from drop down box	
Staff numbers		Please select from drop down box	Unknown impact of staff headcount reducing 7.64%
Other (please specify in comments)		Please select from drop down box	
Total		-	

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

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

Emissions source	Total estimated annual carbon savings (tCO_2e)	Comments
Electricity	61	1 Project Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Natural gas	956	4 Projects Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Other heating fuels		
Waste		
Water and sewerage		
Travel		Unknown impact of "Sustainable Business Travel Guiding Principles" being introduced
Fleet Transport		Unknown impact of "Sustainable Business Travel Guiding Principles" being introduced
Other (please specify in comments)	1	Emission Source: Steam 1 Project Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Other heating fuels	904	Emission Source: CHP Heat 24 Projects Savings from projects completed on the Old Aberdeen Campus where 24.4% of the heat demand is met by a natural gas fired CHP engine and 75.6% is from gas fired boilers. The annual Carbon Conversion Factor has been calculated (based on BEIS Natural Gas and Grid Electricity Factors) to be specific to this site: 0.2285kgCO2e/kWh. Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Electricity	88	Emission Source: CHP Electricity 1 Project Savings from projects completed on the Old Aberdeen Campus where 60% of the electricity demand is met by a natural gas fired CHP engine and 40% is from the Grid. The annual Carbon Conversion Factor has been calculated (based on BEIS Natural Gas and Grid Electricity Factors) to be specific to this site: 0.3658kgCO2e/kWh. Please note that annual renovations/upgrades across the University will have also included measures that reduced energy use but the details of which were not possible to capture.
Travel		Unknown impact of bike rental scheme
Please select from drop down box		

Total	**2,009**	

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

Emissions source	Total estimated annual emissions (tCO_2e)	Increase or decrease in emissions	Comments
Estate changes		Please select from drop down box	Unknown increase due to a key building being brought back online for school/staff expansions
Service provision		Please select from drop down box	
Staff numbers		Please select from drop down box	
Other (please specify in comments)		Please select from drop down box	
Please select from drop down box		Please select from drop down box	
Total	-		

3j **Total carbon reduction project savings since the start of the year which the body used as a baseline for its carbon footprint**
If the body has data available, estimate the total emissions savings made from projects since the start of that year ("the baseline year").

Total savings	Total estimated emissions savings (tCO_2e)	Comments
		Baseline year of 15/16
		Estimated savings from 129 completed projects
Total project savings since baseline year	3,577	Does not include Monitoring & Targeting regimes or behaviour changes campaigns

Further information

3k **Supporting information and best practice**
Provide any other relevant supporting information and any examples of best practice by the body in relation to corporate emissions, targets and projects.

Data Transparency - Sustainability Dashboard: As part of the University's Aberdeen 2040 commitments, a Sustainability Dashboard has been launched which provides a breakdown of our emission sources, annual profiles, and energy related emissions for each building. The dashboard is available to staff, students, and the general public in an effort to improve the understanding and transparency of our emissions profile. https://www.abdn.ac.uk/about/sustainable/net-zero.php
Data Transparency - Student Relocation Calculation Tool: The University has, in collaboration with EAUC Scotland, developed the "Domestic and International Student Relocation Travel Emissions Calculator" tool: https://www.sustainabilityexchange.ac.uk/public_bodies_climate_change_duties_reporting_t
This tool is based upon a tool developed by Estrid Jonsson, a University of Aberdeen Net Zero Research – Travel Emissions intern in the Estates & Facilities Sustainability Team. The internship was established to fill a gap identified in the University's emissions profile, as at the time, there was no formal methodology available within the sector to calculate these emissions. The project developed a robust methodology and tool that enabled the University to calculate these emissions for the first time, enhancing our emissions reporting and contributing to our sustainability commitments articulated as part of our Aberdeen 2040 strategy.
Data Transparency - Reporting Boundary Update: To align with sector best practice guidance, as detailed in the Standardised Carbon Emissions Reporting Framework (SCEF), the University has expanded its Net Zero reported emissions boundary to include staff commuting (Scope 3), well-to-tank (Scope 3) and student relocation (Scope 3).
New Emission Source - Student Relocation: The "Domestic and International Student Relocation Travel Emissions Calculator", developed by the University in collaboration with EAUC Scotland, was used to calculate this year's emissions. Information on the travel assumptions used can be provided on request.
New Emission Source - Staff Commuting: Emissions from staff commuting where calculated using the latest staff travel survey which had a response rate of 37%.
New Emission Source - Well-To-Tank: Well-to-tank emissions are part of a Scope 3 emissions source group known as "Fuel and Energy Related Activities". The group covers the extraction, production, and transportation of fuels and energy purchased or acquired by the reporting company in the reporting year, and which are not already accounted for in Scope 1 or Scope 2. Guidance from the Scottish Government is for public bodies to include well-to-tank (WTT) emissions as part of their annual PBCCD submission if these emissions account for over 1% of an organisation's total carbon profile. Consumption data from the University's Scope 1 & 2 emissions sources are used, in conjunction with the relevant UK Government WTT factors, to calculate the University's WTT emissions.
Methodology Update - Rainwater Sewerage: The University has four rainwater harvesting systems which provide a renewable source of water for use in toilets. Once consumed, the water is removed through the sewerage system and as a result, undergoes the same treatment as consumed fresh water. As a result, the total harvested volume is added to the calculated volume of fresh water going into the sewerage system.
Methodology Update - Business Travel Flights: Business Travel data is sourced from the University's travel provider and through expense claims entered in the finance system. Due to limitations of the finance system, "long-haul" and "international" flights could not be differentiated, as a result, all were combined (incl. data from the travel provider) and reported as "international". This has been corrected this year, with the "long-haul" data from the travel provider being reported separately, and the "international" data from the provider being combined with the data from the finance system.
Methodology Update - Student Commuting: We are looking at ways to improve our confidence in student commuting data and intend to include this emissions category in next year's report. For this year we would simply note that, based on an initial analysis for 2022/2023 and derived from a 6.4% response to our travel survey data, we estimate that student commuting emissions would have been around 2,910.8 tCO2e in 2022/2023.
Strategy Development - Net Zero: The University has established a Net Zero Strategies and Targets Working Group (chaired by the Dean for Environmental Sustainability) to develop its Net Zero strategy. It will detail, among other topics, key pathways, targets, and KPIs and the aim is to publish by Dec. 2024.
Strategy Development - Heat Decarbonisation: The University has established a Sustainable Heating Programme Board (chaired by the Vice-Principal for Regional Engagement) to bring forward recoommendations on the long-term decarbonisation of our heat networks in Old Aberdeen and Hillhead.
Initiatives - Grey Water: The University has grey water harvesting systems installed on 3 sites. These systems supplied a total of 3,639m3 of grey water to these sites.
Initiatives - Bike to Work Scheme: The University offered a bike to work salary sacrifice scheme to encourage staff to cycle to work. In 2022/2023, £36.5k of bicycles, and associated safety equipment, was supplied to 30 employees. The University's bike to work partner this year was Cycle Scheme. (https://www.cyclescheme.co.uk/)

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

Assessing and managing risk

4a **Has the body assessed current and future climate-related risks?**
If yes, provide a reference or link to any such risk assessment(s).

The University has not formally assessed climate-related risks through the Adaptation Scotland framework. In previous years we have made efforts to assess our climate risks but have yet to formally embed this in Business Continuity practices.

However, following a discussion at our Estates Committee in October 2020 (and several incidences of campus flooding) this issue has been identified as an area of concern. The University has an environmental sustainability category section in the institutional strategic risk register that captures the potential impact of Climate Change on the University.

In 2022/2023 a Net Zero intern within the Sustainability Team reviewed the University's policies, strategies, risk registers, and design guide against the Adaptation Scotland Framework to identify priority areas for the upcoming (2023/2024) development of an Adaptation Strategy.

The intern's work highlighted best practices examples from other Scottish institutions and recommended the following key consequences are to be addressed by the University through an adaptation strategy:
• The health of our natural environment
• The increased risk of flooding
• The health and wellbeing of our people
• Our cultural heritage and identity
• Performance of our buildings

As a result of this exercise, the Sustainability Team, in conjunction with other colleagues in Estates and Facilities, had hoped to launch a part-time 6-month “Designing for a Net Zero Future” project undertaken by a student intern but this is currently on hold as part of a wider savings programme. The project was to focus on updating the sustainability section of the University’s Design Guide, with a focus on adaptation and mitigation, embedding both Net Zero and Adaptation thinking into the way we develop and conceive campus infrastructure projects, repairs, and updates.

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.

Our Sustainable Development Committee (SDC), chaired by the Senior Vice-Principal, has been established explicitly to raise the profile of sustainability issues across the institution.

As part of a review of the institutional approach to risk in autumn 2021, an Environmental Sustainability category has been added to our main institutional Strategic Risk Register (SRR), with the content of that section reviewed and maintained by the SDC. Risk management procedures are undertaken by Estates in relation to buildings on campus.

In 2022/2023, a Net Zero intern reviewed the University’s current status with regards to adaptation and opportunities to embed climate change adaptation in its design guide and suggested the development of an adaptation strategy.

Our intention is therefore, in the interim, to work to embed adaptation as part of the wider institutional resilience framework, including as part of the project risk management process on every refurb/new build.

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”).

Adaptation actions, although not formally implemented as part of an Adaptation Plan, have been routinely embedded in the University’s operations. These include:

• Work from home
• Career support
• Counselling
• Severe weather policy
• Minimising flood risk
• Thermal comfort
• Employee Wellbeing
• Business Continuity Process

The University has also undertaken an extensive condition surveys exercise across all of its sites. This aims to understand the scope of the activities required to future proof buildings and infrastructure. These surveys will inform future maintenance and capital projects which will be further enhanced and informed by the revisions to the sustainability content of the Estates Design Guide and by the emerging register of net-zero projects we are developing.

Additionally, the University is also reviewing the resilience of its energy generation technologies and heat networks to ensure the infrastructure is capable of operating in extended period of extreme weather (i.e., heatwaves, heavy rainfall and prolonged cold periods). We are engaging with industry and civic stakeholders about the potential of linking energy infrastructures and shared opportunities as we move away from fossil fuel-based technologies.

With the expansion of the Sustainability Team within Estates & Facilities, the subject of green infrastructure is being brought to the attention of project and operational discussions, with some fresh capacity to be able to consider e.g., biodiversity and climate resilient planting.

4d **Where applicable, what contribution has the body made to helping deliver the Programme?**
Provide any other relevant supporting information

Outcome 4 Contribution: The University is currently part of a stakeholder group, led by Aberdeen City Council, discussing proposals to develop a city-wide heat network. Should this discussion see a civic network established that the University is a formal part of it has the potential to increase the resilience of the University's own heat network by acting as an anchor, as well as contributing to a wider civic agenda that incudes reducing fuel poverty and providing heat to community housing.

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).

Climate related risks are overseen as part of the Institutional Risk Register, with the Environmental Sustainability risks reviewed by the Sustainable Development Committee, and managed by the Sustainability team in Estates & Facilities.

In the emerging adaptation framework and strategy, key performance indicators will be included to allow for monitoring.

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 University does not yet have any formal arrangements in place to monitor and evaluate the climate related impact of adaptation actions. Such practices will be implemented as part of the adaptation framework. However, actions detailed at 4c are subject to review as part of other exercises e.g. our Heating Policy was recently revised to reflect an institutional decision to reinforce heating target temperatures and to adjust daily heating periods.

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. Embed Adaptation as part of the Estates & Facilities Design Guide and implement the associated actions.
2. Develop a University Climate Change Adaptation Strategy and Framework aligned with guidance from Adaptation Scotland.
3. Comprehensive mapping and ranking of adaptation risks across the Estate, and considering non-physical risks.
4. Identifying, evaluating and monitoring adaptation actions, as set out in the new adaptation framework.
5. Strengthening and continuing to grow partnership for adaptation action at, local and national (Scottish and UK) levels.

Further information

4h **Supporting information and best practice**
Provide any other relevant supporting information and any examples of best practice by the body in relation to adaption.

Students from the MSc Environmental Partnership Management have been involved in helping establish a number of local adaptation initiatives e.g., in 2016 a student also helped to establish the Aberdeen Adapts programme (with Aberdeen City Council) and in 2017 we welcomed a student to adopt a 'living laboratory' approach to the University's initial foray into climate change adaptation thinking.

The Sustainability Team's 2022/2023 Net Zero intern undertook a best practice review exercise of all Scottish Higher and Further Education Institutions to identify process and activities that the University should embed over the coming years. This exercise also identified practices that the University was already undertaking that previously had not been identified as adaptation practices (see list at 4c).

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PART 5 Procurement

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

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

The University of Aberdeen has developed a Procurement Strategy and Action Plan in line with the Procurement Reform (Scotland) Act 2014. This can be found on our website (https://www.abdn.ac.uk/procurement) and is aligned with the Aberdeen 2040 Strategic Plan and the University's strategic goals, and aims to ensure we procure in an environmental, social, ethical and economically responsible manner.

The University's Procurement Policies require that a Procurement Project Strategy is developed for all procurements with a total value of £50,000 and over excl. VAT. The Procurement Project Strategy requires the Procurement Lead to outline the approach to complying with the sustainable duty detailed in the Procurement Reform (Scotland) Act 2014. It covers topics such as: carbon emissions relevant to the procurement, community benefits, fair work practices, methods of invoicing & payments etc. This ensures our key objectives i.e., to embed sound ethical, social and environmental policies within the University's function and compliance with relevant legislation in the performance of the sustainable procurement duty are achieved.

For all Regulated Procurements (i.e., value of £50K and over), a Supply Chain Code of Conduct (based on that championed by Advanced Procurement for Universities and Colleges [APUC]) is issued to potential suppliers at tendering stage. Suppliers are asked to make a clear declaration of support for the principles contained within this Code. This code requires suppliers commit to the following, as a minimum, with regards to environmental compliance:

- Complying with all local and national environmental laws, regulations and directives of the countries they are working in, manufacturing in or trading with.
- Actively avoid causing environmental damage and/or negative environmental impact through manufacture and supply of the goods or services and disposal of supply chain waste.
- Have a business plan in place, and be acting on it, to minimise their environmental impact year on year and adopting or working towards internationally recognised environmental standards and/or behaviour.
- Encourage the development and use of environmentally friendly technologies, promote positive environmental practices (such as reducing carbon emissions, minimising waste and improving water efficiency, reduced pollution levels and technological improvements) through their activities wherever possible.

The Procurement team ensure that they keep up to date with developments in relation to sustainable procurement and related climate emergency actions being rolled out across the sector. The team have undertaken training on evaluation criteria which includes the use of assessing whole life costs and sustainable outcomes. They have also attended a APUC's Responsible Procurement webinar and Social Issues in Procurement Workshop.

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 University of Aberdeen acknowledges its procurement activities have a significant impact on the environment, society and the economy. Procurement not only delivers value for money but sets the tone for ethical business and responsible dealings with our commercial partners.

The Procurement Team develop contract strategies that minimise or reduce negative impacts on the environment. We consider risks and benefits, ensure compliance and best practice across our own procurement operations and into our supply chains, working in conjunction with colleagues to identify and implement ways of contributing towards the University's goal of zero carbon, as well as maintaining a focus on the delivery of Community Benefits, Waste Management, Diversity, Equality and Inclusion.

Our Procurement Policy & Procedures advises consideration of whole life costs (this includes determining the need for the goods/services, through to its eventual disposal and replacement), environmental and social impacts in assessment of value for money. We follow the Scottish Government Procurement Journey and the Sustainable Procurement Duty outlined in the Procurement Reform (Scotland) Act 2014 which requires that institutions must think about how they can improve the social, environmental and economic well-being in every regulated procurement exercise undertaken.

In conjunction with APUC, the University has begun work with EcoVadis (the largest provider of business sustainability ratings), to commence a review of our supply chain. This requirement shall form part of our processes going forward.

Over the coming financial years, the Procurement Team will analyse the organisation's operations and its supply chain to prioritise high risk categories and suppliers across a range of issues including environmental, ethical, and sustainable procurement. Assessment of the University's suppliers and their supply chains through the use of a comprehensive, results-oriented methodology will help the University to identify risks and to raise awareness of the range of issues that arise when buying goods and 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.

Procurement is working with the Responsible Procurement Team at APUC in relation to Scottish Public Body – FNT (From Now To) 2030. We attend workshops to develop action plans and continue to review our internal polices relevant to specific commodity categories. Looking at initiatives or behaviours applied to reduce GHG emissions within the commodities, as well as review the Sector's Supply Chain Climate & Ecological Emergency Strategy (SCCEES). The Workshops cover commodities such as ICT, Furniture, Food & Travel.

The Head of Procurement participates in the APUC Sustainable Procurement Leaders Group (SPLG) – the remit/role of the Group is to drive sustainable procurement practices in the sector by championing the need for proactive involvement with stakeholders, challenging institutional requirements and sharing best practice in all areas. And, to aid institutional procurement professionals in embedding best practice responsible procurement by identifying, reviewing, and cascading good practice for potential adoption by relevant staff within operational environments. Various working groups have been formed which report back to SPLG for discussion as follows:

- Equality, Diversity & Inclusion
- Procuring more sustainable goods & services
- Communicating Responsible Procurement with stakeholders
- Circular Furniture
- Circular IT

The Net Zero & Emissions Manager is working with colleagues in the sector, as part of the SPLG – Procuring More Sustainable Goods & Services group, to develop a best practice questions bank. This exercise seeks to standardise sustainability/Net Zero focused tender questions and encourage a wider focus of the supply chain on Net Zero requirements.

While not reportable in the annual PBCCD submission, the University procures REGO certificates for all grid electricity it purchases.

As part of the Net Zero strategy development, a "Sustainable Procurement" decarbonisation pathway has been developed through collaboration between the Sustainability Team and the Procurement Team. The pathway focuses on creating internal guidance and training to encourage staff to develop more sustainable habits, improving the flexibility of procurement and finance systems to encourage circular economy practices, and improving supply chain engagement.

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PART 6 Validation and Declaration

6a Internal validation process

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

The co-ordination of these submissions is undertaken by the Sustainability Team in the Estates & Facilities Directorate.

Data was provided by the functional leads in the relevant areas, notably Energy, Waste, Transport, HR, and Procurement.

The information was reviewed by the Sustainable Development Committee on 13th November 2023 and endorsed for onward consideration by the University's Senior Management Team (SMT). SMT in turn provided, by circulation, formal approval for submission in line with the reporting deadline.

6b Peer validation process

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

The University took part in the EAUC facilitated group PBCCD Peer Review Process on 14th November 2023.

This was a useful exercise and reinforced our decision and approach to the inclusion of student relocation, WTT, and staff commuting emissions for the first time this year.

6c External validation process

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

Elements of the data submitted as part of this exercise are also submitted as part of our annual Higher Education Statistics Agency (HESA) return. The timing of the PBCCD return is out of synch with some of our key reporting exercises, notably the HESA process (which is the sector's key data submission and validation exercise and adheres to a spring reporting schedule), and the finalisation of our Annual Report and Accounts which culminates in approval at a Court meeting in December.

Given these reporting schedules, some of the contextual responses here relate to 2021/2022 and not to 2022/2023. Updates can be made available early in 2024 if required.

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.

We are committed to the provision of timely and accurate data as part of this exercise and we continue to review our submission, including those areas where there are gaps (i.e., procurement emissions, or staff commuting) or where we acknowledge that our capacity is limited (i.e., adaptation).

We continue to assess how best to validate future submissions, with a particular focus on how that can be achieved given the restricted submission timescale for those of us reporting on the basis of an academic year.

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:	Karl Leydecker
Role in the body:	Senior Vice-Principal
Date:	30/11/2023

Recommended Reporting: Reporting on Wider Influence

Wider Impact and Influence on GHG Emissions

Q1) Historic Emissions (Local Authorities Only)

Please indicate emission amounts and unit of measurement (e.g. tCO_2e) and years. Please provide information on the following components using data from the links provided below. Please use (1) as the default unless targets and actions relate to (2).

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

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

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

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

Local Authority:(Please State)	Please select from drop down box
DESNZ Dataset:(full or sub-set)	Please select from drop down box

Source	Sector	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Units	Comments
DESNZ Sectors	Total Emissions													ktCO2e	
	Industry and Commercial													ktCO2e	
	Domestic													ktCO2e	
	Transport total													ktCO2e	
	Per Capita													ktCO2e	
Other Sectors	Please select from drop down box													Please select from drop down box	
	Please select from drop down box													Please select from drop down box	
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2a) Targets
Please detail your wider influence targets

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

2b) Does the organisation have an overall mission statement, strategies, plans or policies outlining ambition to influence emissions beyond your corporate boundaries? If so, please detail this in the box below.

We are working alongside regional and national partners to review options for the decarbonisation of heat, including as part of a discussion about the district heating network in Aberdeen.

Our academic colleagues have extensive links with regional, national, and international partners working on projects to influence emissions beyond our boundaries.
As an example please see the work of our Centre for Energy Transition https://www.abdn.ac.uk/energy/

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

Sector	Start year for policy/action implementation	Year that the policy/action will be fully implemented	Annual CO_2 saving once fully implemented (tCO_2)	Latest Year measured	Saving in latest year measured (tCO_2)	Status	Metric/indicators for monitoring progress	Delivery Role	During project/policy design and implementation, has ISM or an equivilent behaviour change tool been used?	Please give further details of this behaviour change activity.	Value of Investment (£)	Ongoing Costs (£/year)	Primary Funding Source for Implementation of Policy/Action	Comments
Overall Reduction Target	2015	2021	6,304.0	2021	14,528.3	Complete		Direct delivery	No				Capital investment	2016/2021 Carbon Management Plan
Please select from drop down box	Please select from drop down box	Please select from drop down box		Please select from drop down box		Please select from drop down box		Please select from drop down box	Please select from drop down box				Please select from drop down box	
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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	UOA: Centre for Energy Transition - https://www.abdn.ac.uk/energy/	Lead	n/a	Various e.g. Energy Sector	Various e.g. Local Authorities, Govt Agencies	Various Third Sector Groups e.g. Aberdeen Climate Action.	Research, Collaboration, CPD.	University of Aberdeen research centre established in 2020.
Partnership Working	Get About Partnership - https://www.getabout.org.uk/	Participant	NESTRANS	n/a	Various e.g. RGU, Local Authorities, NHS	Various e.g. Energy Savings Trust, Nestrans.	Behaviour change initiatives, collaborative projects.	
Partnership Working	ACC: Powering Aberdeen - https://www.aberdeencity.gov.uk/services/environment/powering-aberdeen	Participant	Aberdeen City	Various e.g. Chamber of Commerce	Various e.g. RGU, NHS	Various e.g. Energy Savings Trust, Nestrans.	Sustainable Energy Action Plan	
Partnership Working	ACC: Aberdeen Adapts - https://www.aberdeencity.gov.uk/services/environment/climate-change/adapting-climate-change	Participant	Aberdeen City	Various e.g. Chamber of Commerce	Various e.g. RGU, Local Authorities, NHS	Various e.g. Energy Savings Trust, Nestrans.	Multi-sector workshops on adaptation.	
Partnership Working	North East Scotland Climate Change Partnership - https://www.aberdeencity.gov.uk/services/environment/climate-change	Participant	Revolving	Various e.g. Chamber of Commerce, Federation of Small Businesses	Various e.g. RGU, Local Authorities, NHS	Various e.g. Energy Savings Trust, Nestrans.	Multi-sector declaration on mitigation and adaptation.	
Partnership Working	Aberdeen Fairtrade Steering Group - http://afairerworld.org.uk/fair-trade/aberdeenfairtrade-city-steering-group/	Participant	Aberdeen City	Various e.g. NorthLink, Coop	Various e.g. Aberdeen City, University	Various e.g. churches, schools, local charities.	Securing Aberdeen City's Fairtrade status.	
Partnership Working	Environmental Association for Universities & Colleges + Scotland Branch - http://www.eauc.org.uk/home	Participant	EAUC	Various Corporate Sponsors	Various e.g. universities & Colleges	As required e.g. SSN, SUSTRANS.	CPD, TSNs, networking, tools.	
Partnership Working	Universities Scotland Working Groups: Responsible Universities Group Scotland (RUGS)	Participant	Universities Scotland	n/a	Various e.g. Scottish universities	Various .g. SSN, EAUC, APUC.	Working Grup reviewing what sustainability means for HE in Scotland.	
Partnership Working	Universities Scotland Working Groups	Participant	Universities Scotland	n/a	Various e.g. Scottish universities	Various .g. SSN, EAUC, APUC.	Working Group looking at business travel issues in HE in Scotland	
Partnership Working	UOA: Centre for Environment & Biodiversity	Lead	n/a	Yes. Varies by event and research theme.	Yes. Varies by event and research theme.	Yes. Varies by event and research theme.	Research, Collaboration, CPD.	University of Aberdeen research centre established in 2021.
Communications	UOA: Aberdeen Biodiversity Centre - https://www.abdn.ac.uk/biodiversity/	Lead	n/a	n/a	n/a	n/a	Schools outreach and public engagement.	
Communications	UOA: Public Engagement with Research - https://www.abdn.ac.uk/engage/	Lead	n/a	Various e.g. Event Sponsors	Varies by event	Varies by event	Various programmes of research engagement e.g. public lectures, festivals, events.	
Communications	UOA: Cruickshank Botanic Gardens - https://www.abdn.ac.uk/botanic-garden/	Lead	Charitable Trust	n/a	n/a	Cruickshank Charitable Trust	Promotion of plant biodiversity, public outreach, green space.	
Partnership Working	LHEES - Local Heat & Energy Efficiency Strategy	Participant	Scottish Govt	Various organisations and business in a defined geographic area.	Various organisations and business in a defined geographic area.	Various organisations and business in a defined geographic area.	Heating and energy efficiency strategy.	
Communications	UOA: Climate and Sustainability Assemblies - https://www.abdn.ac.uk/about/sustainable/around-campus-159.php#panel2932	Lead	n/a	n/a	Yes, Varies by event	Yes. Varies by event	Various e.g. policy developments, action plans, focussed working groups.	In 2022/23, as part of an effort to engage our student and academic community more directly in discussion of our sustainability commitments, we launched our inaugural Climate and Sustainability Assembly programme with a biodiversity themed event. These events are designed to enable staff and students to come together to share their thoughts on aspects of sustainability, with the explicit intention of informing policy and directing visible action on campus. The biodiversity event saw over 50 staff and students gather to discuss and inform opportunities to enhance our campuses and improve our nature-positive credentials. Subsequent work has included habitat mapping of our grounds, changes in the management of some greenspaces to encourage biodiversity and plans to develop a new policy and action plan that will focus effort on restoring biodiversity on our campus. A further Assembly to galvanise and encourage a campus-wide focus on the greening of our laboratory practices saw 60 colleagues gather in the autumn of 2023 to discuss action to reduce laboratory waste, improve energy efficiency, and instil more sustainable approaches to the conduct of experiments and practicals.
Capacity Building (ie. staff training and development initiatives)	UOA (with EAUC/SFC): Development of the "Domestic and International Student Relocation Travel Emissions Calculator Tool" - https://www.eauc.org.uk/the_domestic_and_international_student_relocati	Lead	n/a	n/a	EAUC	n/a	Domestic and International Student Relocation Travel Emissions Calculator Tool	The University has, in collaboration with EAUC Scotland, developed the "Domestic and International Student Relocation Travel Emissions Calculator" tool. This tool is based on initial work on a "Student Travel to Study Emissions Calculation Tool", developed by Estrid Jonsson, a University of Aberdeen intern in the Estates & Facilities Sustainability team. Her internship project was established to fill a gap in the University's emissions profile, with no formal methodology available in the sector to calculate these emissions. Her successful project enabled the University to calculate these emissions for the first time, enhancing our emissions reporting and contributing to our sustainability commitments. The tool went on to be developed for circulation within the sector as a best practice methodology for calculating these emissions. See full details at https://www.sustainabilityexchange.ac.uk/public_bodies_climate_change_duties_reporting_t
Capacity Building (ie. staff training and development initiatives)	UoA: Intern/InternPlus schemes	Lead	n/a	n/a	n/a	n/a	In 2022/23 outputs included two projects looking at Biodiversity Mapping, and Emissions Calculation Methodologies & Tools	The Sustainability team regularly engages with the University's Intern/InternPlus schemes to establish internships exclusive to UoA students. These projects provide the interns with valuable experience in sustainability roles hile providing the Sustainability team with valuable additional capacity.
Please select from drop down box	Aberdeen City: NetZero Aberdeen	Participant	Aberdeen City	Various e.g. Energy Sector	Various e.g. Universities	Various e.g. NESTRANS	Net Zero strategy framework for the City of Aberdeen	
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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	In the summer of 2023, the Sustainability Team undertook ecological surveying of the University's largest 6 campuses/landholdings in order to create a spatially explicit GIS map of our habitat types. The team also worked with the local Biological Records centre (NESBReC) to gather all relevant species records for these areas, and map this via GIS, as the basis of a new species list for our sites. Findings from ecological surveying have been summarised in a Greenspaces Report which includes: site analysis for each site about habitat composition and current management practices; information on any invasive non-native species present and actions taken to remove them; notes on potential opportunities for habitat enhancement.	Lead	This work has allowed the Sustainability Team to identify the current extent of different habitat types and species of priority conservation status across our landholdings. This report is currently being used to inform the development of a Biodiversity Policy and a 3-year rolling Biodiversity Action Plan for the University spanning 2024-2026, in collaboration with the local Biodiversity Partnership (NESBiP). This Action plan will include targets towards habitat restoration and enhancement, as well as the monitoring and protection of species of priority conservation status identified across our sites.	The biodiversity policy is currently under review within the University, and will be published before the end of the year.
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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