Public Bodies Climate Change Duties Compliance Reporting Template 2021/22

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 may not be accepted for analysis and may be classed as non-compliant with Public Bodies Duties legislative reporting requirements.

2. Guidance

1. Please save-as this workbook with your organisation's name in the title before completing
2. Question 1f must be completed to ensure the correct emission factors are applied in Q3b,
3. If you need to add more rows please email the file to ccreporting@ed.ac.uk
4. Hybrid/homeworking emissions - please include an estimate of FTEs working remotely - hybrid/home in the designated row provided in table 3b
   In order for this to be calculated correctly the total no. of FTEs must be entered in Q1c
5. Local Authorities completeing the recommended tab should select their local authority region at the top of the sheet
   and their emissions will be provided automatically from BEIS datasets

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 2022 Template

PART 1 Profile of Reporting Body

1a Name of reporting body
Provide the name of the listed body (the "body") which prepared this report.

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

2688 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	265850.00	HESA 2020-2021 Data - GIA
Floor area	m2	159733.00	HESA 2020-2021 Data - Non-Residential
Number of full-time equivalent students		12685.00	HESA 2020-2021 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)			
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
£235,939,000	The figure at 1e is taken from the Annual Report and Accounts 2020/2021. The equivalent figure for 2021/2022 will be available after the approval of our 2021/2022 Annual Report and Accounts at Court in December 2022.

1f Report type
Specify the report year type

Report type	Report year comments
Academic	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.

Public Sector Report on Compliance with Climate Change Duties 2022 Template

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, interdiciplinary, 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 the Vice-Principals with responsibility for Research, Education, Regional Engagement, and Global Engagement, the University Secretary/COO, and the new Dean for Environmental Sustainability. There is also representation from Professional Services directorates (i.e. Digital & Information Services, Estates & Facilities, External Relations, Finance, Planning, Research & Innovation, and People) as well as functional leads, students, and other academic leaders (including from the Centre for Energy Transition, and the Centre for Environment & Biodiversity) and trades union representatives.

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 structire 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 a https://www.abdn.ac.uk/staffnet/governance/minutes-and-agendas-135.php

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 structire e.g. to Court. Among its duties, it reviews implementation plans linked to Aberdeen 2040, oversees the Enviromental Sustainability risks from the institutional Strategic Risk Register, and sets the direction for our sustainablity 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 sustainablity and net-zero planning lies with our Directorate of Estates & Facilities (e.g. Waste, Transport, Water, Energy, Buildings, Net Zero). From 2021/22 onward we will transition away from a series of rolling five-year Carbon Managent Plans to a longer-term Net-Zero strategy. The newly appointed Net Zero & Emissions Manager will lead the development of this during 2022/2023.

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

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 recently completed its latest 5-year Carbon Management Plan (CMP) which 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. Inital 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 will lead the development of a more detailed Net Zero Strategy that we aim to make available in the first half of 2023.

Reflecting this net-zero commitment, we signed the Global Climate Letter (aka Race to Zero) and the One Planet Pledge in 2020 and, in September 2021, commited to divestment from fossil fuels by 2025. Since that decision was made, our investment exposure to fossil fuels has 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/strategy-and-governance/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	hhttps://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	https://www.abdn.ac.uk/estates/documents/Estates-Strategy-2013-23%20higher%20resolution.pdf	2013/23	Development Frameworks for the two main campuses also apply.
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

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.

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

In 2022/23 our main focus will be on the following sub-actions:

- Work with colleagues in the Directorate of People to embed sustainability responsibilities into staff Terms & Conditions, induction, core training and other key staffing policies.
- Implement a Sustainable Business Travel policy that encourages sustainable modes and travel behaviours while recognising our internationalisation commitments.
- Establish a framework for a longer-term net-zero project register that comprehensively aggregates the inteventions required to reduce campus emissions.
- Embed our approach to reporting against the Sustainable Development Goals (following the initial publication of an annual SDG report in Autumn 2021).
- Embed the work of the Sustainability team (established in August 2022 within Estates & Facilities) enhancing its capacity as required to deliver against institutional sustainability commitments.
- Review and establish our methodology for tracking and managing categories of emissions not previously included in the PBCCD exercise i.e. Procurement, Staff & Student Commuting, Student Travel to Study
- Investigate and introduce sustainability training and engagement options for staff and students
- introduce a Sustainability and Climate Assembly model for engaging our community in the identification and prioritisation of sustainability commitments

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 upon 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 University moves towards a "new normal" for its operations following the challenges of COVID, the Aberdeen 2040 strategy and associated commitments have been pursued with renewed focus. The 2040 strategy places sustainability at the heart of the institutional mission and has been accompanied by the formal embedding of sustainability into our governance structures to support those commitments (see 2a and 2b above) and the establishment of a dedicated Sustainability unit in the Estates & Facilities directorate to take forward some of the detailed commitments.

At the heart of our Aberdeen 2040 commitments is a net-zero emissions pledge, with the aim of achieving net-zero before 2040. We continue to work internally and alongside sector and industry partners to assess how best to tackle this challenge. 2021/22 has seen us engage in renewed discussions with regional partners about civic district heating networks, including the potential for linking our institutional network into a city wide network. We have established a Sustainable Heating Programme Board to identify initial recommendations for our own journey to decarbonise our heat network and this discussion is being undertaken in parallel with the civic developments mentioned. Additionally, in 2022/2023, the University recently published its Guiding Principles of Sustainable Business Travel to guide travel practices within the University.

The Sustainable Development Goals (SDGs) continue to inform our wider sustainability discussions. We again reported as part of the SDG Accord process in 2022 and have compiled our second annual SDG Report for publication in autumn 2022. Our impact against the UN's Sustainable Development Goals (SDGS) was measured for a third time through the Times Higher Education (THE) 'Impact' rankings, an exercise which continues to grow significantly every year. We continue to see the SDGs as a vital framework against which to articulate our academic and operational contribution, with our work in this regard overseen by an SDG Reporting Group that meets to co-ordinate the THE submission and SDG Report (for the latter see https://www.abdn.ac.uk/about/documents/SDG-Report-2022-Final.pdf).

As well as the establishment of a Sustainability team in Estates & Facilities, 2022 has seen the appointment of an academic Dean for Environmental Sustainability. The role was established to provide academic leadership for the University's sustainability commitments, raising the profile of the sustainability agenda, and working alongside operation colleagues on all aspects of sustainability. Details of the Dean's role are available at https://www.abdn.ac.uk/about/management/deans-110.php

In operational terms our primary focus has now shifted to the development of our net zero strategy and the associated projects and actions required to plot a route towards the decarbonisation of our heating networks and the wider reduction of emissions associated with all aspects of energy use. As part of this exercise, we have begun the process of assessing our emissions inventory, expanding it beyond the limited series of categories included in our 2016/2021 Carbon Management Plan. During 2022/2023 we have secured a six-month internship to look at the data around all aspects of travel (business travel, commuting, and student travel to study in Aberdeen) with the aim of establishing methodologies for tracking these. We are also working alongside Robert Gordon University to consider options for improving our understanding of procurement emissions. In all cases these developments will expand the range of categories of emissions we are able to report against in this PBCCD exercise, moving towards a comprehensive portfolio of Scope 3 emissions, alongside the historically more robust data the sector has had on energy, water, and waste.

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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 extent applicable, selected Scope 3 of the Greenhouse Gas Protocol (b). If data is not available for any year from the start of the baseline year to the end of the report year, provide an explanation in the comments column.

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

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

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

Reference year	Year	Year type	Scope 1	Scope 2	Scope 3	Total	Units	Comments
Baseline Year	2015/16	Academic	13,095	12,468	5,958	31,520	tCO_2e	
Year 1 carbon footprint	2016/17	Academic	12,958	10,276	4,755	27,989	tCO_2e	
Year 2 carbon footprint	2017/18	Academic	12,578	7,540	4,337	24,455	tCO_2e	
Year 3 carbon footprint	2018/19	Academic	10,373	6,767	4,192	21,332	tCO_2e	
Year 4 carbon footprint	2019/20	Academic	10,085	7,659	2,994	20,738	tCO_2e	COVID-19 impact from March 2020
Year 5 carbon footprint	2020/21	Academic	10,082	5,579	1,331	16,992	tCO_2e	COVID-19 impact for full reporting year
Year 6 carbon footprint	2021/22	Academic	10,200.1	3,595.0	36,668.3	50,463.4	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	0	Academic				-	tCO_2e	
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	

3b Breakdown of emissions sources

Complete the following table with the breakdown of emission sources from the body's most recent carbon footprint (greenhouse gas inventory); this should correspond to the last entry in the table in 3(a) above. Use the 'Comments' column to explain what is included within each category of emission source entered in the first column. If there is no data consumption available for an emission source enter the emissions in kgCO2e in the 'Consumption' column of one of the "Other" rows and assign the scope and an emission factor of 1.

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

Emission Factor Year: 2022 — The emission factor year is auto-assigned based on your answer to Q1f, if it is incorrect please contact SSN.

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

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

Emission	Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (tCO_2e)	Comments
Electricity	Grid Electricity (generation)	Scope 2	10,573,082	kWh	0.19338	kg CO2e/kWh	2,044.6	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 9,543 Megawatt Hours (MWh) of renewable (REGO backed) energy during the period 1st April 2021 to 31st March 2022 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 Forsterhill 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 historic double counting, 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. This calculation methodology will be applied from this reporting year forward and this year results in a reduction of over 900 tCO2e compared to the previous reporting methodology.
Electricity	Grid Electricity (transmission & distribution losses)	Scope 3	10,573,082	kWh	0.01769	kg CO2e/kWh	187.0	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 9,543 Megawatt Hours (MWh) of renewable (REGO backed) energy during the period 1st April 2021 to 31st March 2022 Please see methodology commentary above. This applies proportionately to T&D.
Fuels	Natural Gas	Scope 1	55,405,046	kWh	0.18254	kg CO2e/kWh	10,113.6	
Heat and steam	Purchased Heat and Steam	Scope 2	9,080,708	kWh	0.17073	kg CO2e/kWh	1,550.3	Steam purchased from the NHS at the Foresterhill Campus
Heat and steam	Distribution - Purchased Heat and Steam	Scope 3	9,080,708	kWh	0.00899	kg CO2e/kWh	81.6	Steam purchased from the NHS at the Foresterhill Campus
Water	Water - Supply	Scope 3	126,105	m3	0.11000	kg CO2e/m3	13.9	Due to issues with the accuracy and consistancy of invoices, consumption is based off of monthly University meter reads
Water	Water - Treatment	Scope 3	119,800	m3	0.23000	kg CO2e/m3	27.6	As waste water is not metered, volume assumed to be 95% of water supplied to the University
Fuels	Gas Oil kWh	Scope 1	132,236	kWh	0.25679	kg CO2e/kWh	34.0	Consumed for heating
Fuels	LPG kWh	Scope 1	15,332	kWh	0.21449	kg CO2e/kWh	3.3	Due to COVID-19 and changes to staff in the Energy Team, invoices have been difficult to consolidate. As such, it is likley that the reported consumption here is an under representation but this is a relatively minor emissions source.
Fuels	Diesel (average biofuel blend)	Scope 1	11,470	litres	2.55784	kg CO2e/litre	29.3	Fleet
Fuels	Petrol (average biofuel blend)	Scope 1	3,474	litres	2.16185	kg CO2e/litre	7.5	Fleet
Transport	Domestic flight (average passenger)	Scope 3	806,209	passenger km	0.24587	kg CO2e/passenger km	198.2	
Transport	Short-haul flights (average passenger)	Scope 3	2,307,941	passenger km	0.15353	kg CO2e/passenger km	354.3	
Transport	International flights (average passenger)	Scope 3	2,176,064	passenger km	0.18362	kg CO2e/passenger km	399.6	
Transport	Rail (National rail)	Scope 3	528,388	passenger km	0.03549	kg CO2e/passenger km	18.8	
Transport	Bus (local bus, not London)	Scope 3	105,081	passenger km	0.10778	kg CO2e/passenger km	11.3	Incl Shuttle Bus
Transport	Ferry (average passenger)	Scope 3	34,443	passenger km	0.11286	kg CO2e/passenger km	3.9	
Transport	Taxi (regular) passenger km	Scope 3	41,202	passenger km	0.14876	kg CO2e/passenger km	6.1	
Transport	London Underground	Scope 3	5,133	passenger km	0.02781	kg CO2e/passenger km	0.1	
Transport	Average Car - Unknown Fuel	Scope 3	1,366,023	km	0.17067	kg CO2e/km	233.1	
Transport	Diesel (average biofuel blend)	Scope 3	8,147	litres	2.55784	kg CO2e/litre	20.8	
Transport	Petrol (average biofuel blend)	Scope 3	16,585	litres	2.16185	kg CO2e/litre	35.9	
Transport	LPG litres	Scope 3	146	litres	1.55709	kg CO2e/litre	0.2	
Waste	Organic Food & Drink Composting	Scope 3	19	tonnes	8.91058	kgCO2e/tonne	0.2	Food
Waste	Paper & Board (Mixed) Recycling	Scope 3	127	tonnes	21.28019	kgCO2e/tonne	2.7	Paper
Waste	Mixed recycling	Scope 3	60	tonnes	21.28019	kg CO2e/tonne	1.3	DMR
Waste	Refuse Municipal /Commercial /Industrial to Combustion	Scope 3	224	tonnes	21.28019	kgCO2e/tonne	4.8	Residual Waste
Waste	WEEE (Mixed) Recycling	Scope 3	19	tonnes	21.28019	kgCO2e/tonne	0.4	WEEE
Waste	Glass Recycling	Scope 3	2	tonnes	21.28019	kgCO2e/tonne	0.0	Glass
Waste	Metal Cans (Mixed) & Metal Scrap Recycling	Scope 3	46	tonnes	21.28019	kgCO2e/tonne	1.0	Metal
Waste	Mixed recycling	Scope 3	70	tonnes	21.28019	kg CO2e/tonne	1.5	Wood
Waste	Mixed recycling	Scope 3	30	tonnes	21.28019	kg CO2e/tonne	0.6	Other recyclate
Waste	Refuse Municipal /Commercial /Industrial to Combustion	Scope 3	7	tonnes	21.28019	kgCO2e/tonne	0.2	Chemical
Waste	Organic Garden Waste Composting	Scope 3	200	tonnes	8.91058	kgCO2e/tonne	1.8	Green
Waste	Refuse Municipal /Commercial /Industrial to Combustion	Scope 3	2	tonnes	21.28019	kgCO2e/tonne	0.0	Sanitary
Fuels	Gas Oil litre	Scope 1	4,500	litres	2.75857	kg CO2e/litre	12.4	Gas Oil (Grounds)
Hybrid/Homeworking emissions		Scope 3	26.96%	percentage of total FTEs	0.30000	tCO2e/FTE/annum	217.4	This is based on the following assumptions: - The total FTE number of approved WFH applications with the assumption that 20 hours a week (2.5 days/50% FTE) will be spent at home - The total FTE number of academic staff (minus the approved WFH applicants) where it is assumed that there is an ad hoc WFH practice averaging 40% FTE at home
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	1,489.4	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Construction (APUC E3SCCON)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	1,579.7	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Other procurement (APUC E3SCOTH)
Procurement	Other (please specify in comments)	Scope 3		£spent		kgCO2e/£spent	2,089.8	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Other manufactured products (APUC E3SCMP)

Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	14,998.7	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Medical and precision instruments (APUC E3SCMPI)
Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	4,399.9	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Business services (APUC E3SCBS)
Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	8,720.8	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - ICT (APUC E3SCICT)
Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	351.4	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Paper products (APUC E3SCPP)
Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	51.0	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Waste and water (APUC E3SCWW)
Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	596.7	Please note these emissions are calculated from the University's 2021/2022 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	305.0	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Food and catering (APUC E3SCFC)
Procurement	Other (please specify in comments)	Scope 3		£Spent		kgCO2e/£spent	260.7	Please note these emissions are calculated from the University's 2021/2022 procurement activity through the HESCET tool. Procurement - Unclassified (APUC E3SCUNC)
Waste	Other (please specify in comments)	Scope 3	18	tonnes	5.91308	kgCO2e/tonne	0.1	Asbestos
Waste	Other (please specify in comments)	Scope 3	32	tonnes	21.28019	kgCO2e/tonne	0.7	Clinical Waste - Other - Energy from Waste stream
							50,463.4	**Total is different to that number quoted in Q3a, please check and/or state why in comments cell above**

3c **Generation, consumption and export of renewable energy**
Provide a summary of the body's annual renewable generation (if any), and whether it is used or exported by the body.

	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	145,627	-	-	0	Solar PV is installed on the following buildings: - Science Teaching Hub - Sir Duncan Rice Library - Hillhead Student Village
Solar thermal	-	-	787	0	Rocking Horse Nursery (Passive House Design)
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Targets

3d **Organisational targets**
List all of the body's targets of relevance to its climate change duties. Where applicable, targets for reducing indirect emissions of greenhouse gases, overall carbon targets and any separate land use, energy efficiency, waste, water, information and communication technology, transport, travel and heat targets should be included. Where applicable, you should also provide the body's target date for achieving zero direct emissions of greenhouse gases, or such other targets that demonstrate how the body is contributing to Scotland achieving its emissions reduction targets.

Name of target	**Type of target**	**Target**	**Units**	**Boundary/scope of target**	**Year used as baseline**	**Baseline figure**	**Units of baseline**	**Target completion year**	**Progress against target**	**Comments**
2040 Net Zero Emissions Target - Overarching	Percentage	100	total % reduction	All emissions	2015/16	84,909	tCO2e	2039/40	On Target	The baseline figure currently does not include Scope 3 emissions from student commuting. It does include emissions resulting from procurement activities that have been calculated using the HESCET tool. This emission source was not a reporting requirement as part of PBCCD for the 2015/2016 baseline
Business Travel reduction of 40% on 2018/19 figures by 2025	Percentage	40	total % reduction	Transport	2018/19	4,166	tCO2e	2025/26	On Target	A Sustainable Business Travel policy is currently under review and approval within the University which will encourage a reduction in business travel emissions through a combination of alternative modes of travel and/or a reduction in travel. The impact of COVID-19 on business travel has favourably benefited the University's progress to this target for 21/22.
Reduce water consumption 2% year-on-year	annual	2	annual % reduction	Water and sewerage	2015/16	150,462	M3	Please select from drop down box	Not achieved.	As the shift back to in person teaching and on site working increases following the COVID-19 pandemic, the water consumption across the University has increased accordingly. It should also be noted that a significant leak in the University's Kings College Heat Network resulted in a increase in water demand towards the end of the academic year. Ongoing issues with water metering (current and historic) make it difficult to assess the validity of our water data. We will continue to review and target this as part of our shift to an net-zero approach.

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

The University acknowledges that the financial cost of achieving Net Zero before 2040 will be significant and external funding sources (i.e. loans, grants, power purchase agreements, etc.) will be required to supplement internal capital.

We have made a financial allocation in the capital plan for the forthcoming ten-year period. That has allocated £250,000 in 2022/23 to 2024/25, with £500,000 per annum thereafter. In 2022/23 a supplementatry sum of £700,000 has also been allocated.

We are currently reviewing the costs of undertaking the key Net Zero projects and seeking to secure long term funding, resources, and potential partnerships that will allow the delivery of said projects.

Sequestering/Offsetting will also form a key part of our Net Zero strategy for the "unavoidable" emissions towards 2040. The University plans to review the anticipated annual cost of this practice to allow capital to be allocated in a suitable, sustainable timeline.

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.

Internally the University will report its progress towards its targets to the Sustainable Development Committee. Following a pause due to COVID and staff changes, we also 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 (https://www.abdn.ac.uk/about/sustainable/around-campus-159.php)

Externally, the University will continue to utilise the annual Public Bodies submission to verify its progress towards Net Zero. We will also take opportunities to discuss progress in HE sector forums e.g. via the EAUC, to aid in the sectoral Net Zero discussion and the development and sharing of best practice and policy.

Projects and changes

3e **Estimated total annual carbon savings from all projects implemented by the body in the report year**
If no projects were implemented against an emissions source, enter "0".
If the body does not have any information for an emissions source, enter "Unknown".
If the body does not include the emissions source in its carbon footprint, enter "N/A".

Emissions source	**Total estimated annual carbon savings (tCO_2e)**	**Comments**
Electricity	4	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: 0.423552750359336kgCO2e/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.

Natural gas	294	Savings from a project completed on the Old Aberdeen Campus has had a carbon conversion factor applied which is calculated annually to reflect the use of a natural gas fired, electrically led, CHP engine which provides a portion of heat to the campus. The conversion factor for this heat is: 0.320062917229403kgCO2e/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 heating fuels	-	
Waste	-	
Water and sewerage	-	
Travel	-	
Fleet transport	-	
Other (please specify in comments)	-	
Please select from drop down box		
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Please select from drop down box		
Total	**298**	

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
CHP Station - Boiler Upgrade	Internal Capital	2021/22	Estimated	280,000			Natural Gas	194	56478	No	
Taylor Building - Installation of Zone Valves	Internal Capital	2021/22	Estimated	4,293			Natural Gas	81	13185	No	
Townhouse - Boiler Upgrade (gas)	Internal Capital	2021/22	Estimated	4,014			Natural Gas	13	3650	No	
5 Dunbar - Boiler upgrade	Internal Capital	2021/22	Estimated	6,016			Natural Gas	4	1253	No	
Humanity Manse - Boiler Upgrade (gas)	Internal Capital	2021/22	Estimated	6,701			Natural Gas	2	622	No	
Edward Wright Annex - LED Lighting Upgrade - Corridors	Internal Capital	2021/22	Estimated	1,725			Natural Gas	2	735	No	
Meston Building - Central stair case lighting upgrade	Internal Capital	2021/22	Estimated	1,079			Natural Gas	1	511	No	
CHP Station - Exhaust Gas Heat Exchanger Cleaning & CHP Engine Servicing	Internal Capital	2021/22	Estimated	N/A			Natural Gas	N/A	N/A	No	Improvement in heat output potential (300kW) which last typically a couple of months before efficiency drops
		Please select from drop down box	Please select from drop down box				Please select from drop down box			Please select from dropdown box	
		Please select from drop down box	Please select from drop down box				Please select from drop down box			Please select from dropdown 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 dropdown box	

3g Estimated decrease or increase in the body's emissions attributed to factors (not reported elsewhere in this form) in the report year

If the emissions increased or decreased due to any such factor in the report year, provide an estimate of the amount and direction

Emissions source	Total estimated annual emissions (tCO_2e)	Increase or decrease in emissions	Comments
Estate changes		Please select from drop down box	
Service provision		Increase	Unknown increase in emissions resulting from the University's phased return to in person teaching following COVID
Staff numbers		Increase	Unknown increase in emissions resulting from the University's phased return to in person teaching.
Other (please specify in comments)		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		Please select from drop down box	
Total		-	

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

If no projects are expected to be implemented against an emissions source, enter "0".
If the organisation does not have any information for an emissions source, enter "Unknown".
If the organisation does not include the emissions source in its carbon footprint, enter "N/A".

Emissions source	Total estimated annual carbon savings (tCO_2e)	Comments
Electricity	4	2 Identified 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: 0.423552750359336kgCO2e/kWh. Savings from projects completed on the Foresterhill Campus that supplied electricity by NHS utilises the Grid Electricity carbon conversion factor.
Natural gas	1,077	A rolling Heat Centre upgrade program expected to cover 50% of heat centres in 22/23 & the expected installation of a buffer vessel
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)		
Please select from drop down box		
Please select from drop down box		
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Total	**1,080**	

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		Increase	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	
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		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
Total project savings since baseline year	3,315	Baseline year of 15/16 Estimated savings from 116 completed projects

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.

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.

Methodology Update – Emissions from NHS Supplied Electricity
A review and update has been undertaken to the methodology for calculating carbon emissions from the consumption of NHS supplied electricity. The NHS provides electricity to a number of our Foresterhill sites through a combination of a supply from its CHP system and from the grid. The proportion of generation sources is not steady and changes hourly.
The previous methodology treated all electricity consumption at these sites as "Grid Electricity" and as such, emissions calculations used the Grid Electricity factor as there was no government factor for non-grid purchased electricity. This resulted in an "over report" of emissions.
The updated methodology factors in that since the University also purchases steam from the NHS' CHP system, the fuel and resulting emissions burned to generate the electricity have already been accounted for.
As such, the monthly proportion of grid vs CHP electricity is calculated and applied to the University's consumption to achieve the actual amount of grid electricity consumed.
This updated method allows the University to report NHS grid emissions that fully reflect how the sites and systems operate.

Staffing Updates
The University has recently created and filled the post of Net Zero and Emissions Manager - this role focuses on developing the roadmap to achieving Net Zero before 2040.

Reporting Boundary Update
As part of the 2040 roadmap, the University has recently reviewed the reported emissions boundary which will now include Procurement (Scope 3), Staff Commuting (Scope 3) and Student Commuting (Scope 3).

Scope 3 - Procurement Data & Emissions
For the first time, the University is including Scope 3 Procurement Emissions from the APUC HESCET tool. It should be noted that the current HESCET analysis tool utilises a spend-based methodology which, while recognised as not being best practice, is the current calculation standard across the HE sector.

Scope 3 - Staff & Student Commuting Data & Emissions
The staff and student commuting data gathering methodologies are currently under review (in addition to Business Travel) to improve the confidence in said data.

As a longer term goal, the University is working towards improving its data quality across all emission sources to allow accurate tracking against Science Based Targets.

Public Sector Report on Compliance with Climate Change Duties 2022 Template

PART 4 Adaptation

Assessing and managing risk

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

During 2020/21 we revised the sustainability content of our Estates Design Guide to reinforce the need for detailed sustainability considerations on all capital projects (new build or refurbishment) including the climate resilience of those buildings.

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. Currently a business continuity linked risk captures the potential impact of Climate Change on the University.

NOTE:
Previous activity had seen an MSc student on the University's Environmental Partnership Management (EPM) programme work with the Estates section (summer 2017) to successfully complete a partnership thesis that established an initial approach to adaptation. A series of workshops were held with colleagues in Estates during which key climate change vulnerabilities across our campuses in and around Aberdeen were discussed, mapped and assessed. This process used as its starting point the guidance for Public Bodies in Scotland and aimed to provide key recommendations and an initial adaptation risk register around which the University could build its subsequent approach to adaptation. Its key focus was:

1. To examine climate change adaptation in the context of Scottish Public Bodies and the University of Aberdeen in particular.
2. To seek to understand the potential consequences of future climate impacts specific to the University of Aberdeen.
3. To identify and prioritise ways to manage climate risks.
4. To provide recommendations for the implementation of practical climate adaptation measures.

The workshops identified 31 climate issues spread across six campus locations and further sub-divided between four categories of 'issue' (buildings, people, grounds/green spaces, infrastructure). Additionally 20 potential future impacts were identified and summarised in a risk register.

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.

Our response at 4a outlines the preferred model for embedding climate adaptation thinking, notably the intent to embed adaptation as part of the wider institutional discussion of resilience led by the University's Business Continuity committee and informed by the new SDC. Our intention therefore, remains 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.

We welcome the work that has been done by the EAUC and HEBCON in producing best practice guidance for the sector.

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").

Having engaged colleagues from across Estates & Facilities in workshops as part of our initial mapping of adaptation risks, it became clear that a number of important maintenance projects had taken forward 'adaptation measures' without, at the time, using that terminology (e.g. a number of roofing upgrade projects had seen guttering and pipework improved to increase the capacity of our buildings to cope with more incidences of extreme weather).

The University has recently 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 maintance 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 identifying.

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 rainfull and prolonged cold periods). We are also 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, 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).

At this stage we have no formal arrangement or timetable but our Estates Committee has flagged the importance of this issue and the link to Business Continuity planning. Our intention remains to embed adaptation among the other key 'resilience' issues considered by these groups and, through initiatives like the revised Estates Design Guide, to formalise the expectation of Design Teams.

See also 4g - among the key recommendations of the work to date is the need to expand awareness of adaptation beyond Estates & Facilities and, in due course to consider the wider 'adaptation' impacts that may apply to activities undertaken away from our campus e.g. at overseas campuses or with partners internationally. In the first instance the main focus is, however, likely to remain on buildings and infrastructure issues.

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).

Please see 4e

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.

Our adaptation priorities remain:

1. Continue to work in partnership e.g. with the EAUC, Adaptation Scotland and in regional bodies such as Aberdeen Adapts.
2. Raise awareness of adaptation to identify knowledge gaps and misconceptions (in particular among staff involved in estates and grounds).
3. Further identify adaptation risks by broadening the range of staff involved in e.g. adaptation workshops.
4. Embed adaptation as part of the institution's business continuity and resilience thinking.
5. Promote environmental sustainability more generally as part of the Aberdeen 2040 strategy.

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 were delighted to welcome a student to adopt a 'living laboratory' approach to the University's initial foray into climate change adaptation thinking (see detail at 4a above).

Public Sector Report on Compliance with Climate Change Duties 2022 Template

PART 5 Procurement

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

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

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 at https://www.abdn.ac.uk/procurement and is aligned with the Aberdeen 2040 Strategic Plan and the University's strategic goals to assist our vision of procuring in an environmental, social, ethical and economical 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 exc 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 covers not using forced, involuntary or underage labour, providing suitable working conditions and terms, treating employees fairly, commitment to ethical compliance and economic development of suppliers. In relation to environmental compliance, suppliers commit to, as a minimum:
- complying with all local and national environmental laws, regulations and directives of the countries they are working in, manufacturing in or trading with, as applicable
- 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.

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 year, 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 have attended kick-off Workshops to develop action plans and will 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 Scottish Government Procurement & Climate Change Forum – Monitoring and Reporting Work Stream. The purpose of the group is to address the impact of global climate emergency on procurement, prioritise measures to identify and address monitoring and reporting (Scopes 1,2 & 3) through public procurement and streamline Procurement & Climate Change Reporting. This work would not only benefit the University of Aberdeen but could help guide a multi-sector approach to capturing and reporting emissions from procurement.

The Sustainability Team is currently in the initial stages of collaborating with Procurement to update tender formats to include enhanced Net Zero and Sustainability questions to aid in the selection of sustainable suppliers/vendors/contractors.

Public Sector Report on Compliance with Climate Change Duties 2022 Template

PART 6 Validation and Declaration

6a **Internal validation process**
Briefly describe the body's internal validation process, if any, of the data or information contained within this report.

The co-ordination of these submissions is undertaken by our Estates & Facilities Directorate.

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

The information was reviewed by the Sustainable Development Commitee on 15 November 2022 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 15 November 2022. This was a useful exercise and reinforced our decision and approach to the inclusion of Procurement 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 2020/2021 and not to 2021/2022. Updates can be made available early in 2023 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 and supply chain emissions, or staff/student 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. The establishment of a Sustainability team at the University has included the appointment of a Net Zero and Emissions Manager whose role includes developing best practice methodologies to allow the timely inclusion of all relevant data as part of future submissions.

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:	30/11/2022

Recommended Reporting: Reporting on Wider Influence

Wider Impact and Influence on GHG Emissions

Q1) Historic Emissions (Local Authorities Only)

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

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

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

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

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

Source	Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Units	Comments
BEIS 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	
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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
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2b) Does the organisation have an overall mission statement, strategies, plans or policies outlining ambition to influence emissions beyond your corporate boundaries? If so, please detail this in the box below.

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
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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	Current status of this initiative is unclear.
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.	Current status of this initiative is unclear.
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.	Current status of this initiative is unclear.
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: COP 26 Contribution - https://www.abdn.ac.uk/research/cop26.php	Lead	n/a	Yes. Varies by event	Yes. Varies by event	Yes. Varies by event	Various activities e.g. public lectures, schools engagement, research showcase.	
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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
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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