

**PART 1 Profile of Reporting Body**

**1a Name of reporting body**

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

Glasgow Clyde College

**1b Type of body**

Select from the options below

Education

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

638

**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	59891.00	
	#N/A		
	#N/A		
Other (specify in comments)			

**1e Overall budget of the body**

Specify approximate £/annum for the report year.

Budget	Budget Comments
£46,000,000.00	

**1f Report year**

Specify the report year.

Report year	Report year comments
2019/20 (Financial year)	

**1g Context**

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

The College have a carbon management plan and sustainability statement which is on the College intranet for all staff to review and has been signed off by the College senior management.

**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 College have a Carbon Management Plan which details how the College will manage its impact on the rest of the environment

<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 College have a Carbon Management Plan which details how the College will manage its impact on the rest of the environment

<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
The College have a carbon management plan and su		

**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.

Carbon Management Plan, available on the College intranet

**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	Carbon Management Plan	College Intranet	2015 - 2020	
Business travel	Carbon Management Plan	College Intranet	2015 - 2020	
Staff Travel	Carbon Management Plan	College Intranet	2015 - 2020	
Energy efficiency	Carbon Management Plan	College Intranet	2015 - 2020	
Fleet transport	Carbon Management Plan	College Intranet	2015 - 2020	
ICT	Carbon Management Plan	College Intranet	2015 - 2020	
Renewable energy	Carbon Management Plan	College Intranet	2015 - 2020	
Sustainable/renewable heat	Carbon Management Plan	College Intranet	2015 - 2020	
Waste management	Carbon Management Plan	College Intranet	2015 - 2020	
Water and sewerage	Carbon Management Plan	College Intranet	2015 - 2020	
Land Use	Carbon Management Plan	College Intranet	2015 - 2020	
Other	Carbon Management Plan	College Intranet	2015 - 2020	

**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.

Reduction in staff travel through introduction of electric cars. Green travel plan being developed with student involvement

**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.

N/A

**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.

**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 document entitled "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.

Reference year	Year	Year type	Scope 1	Scope 2	Scope 3	Total	Units	Comments
Baseline Year	2014/15	Other (please specify in comments)				4,553	tCO <sub>2</sub> e	Nov - Oct
Year 1 carbon footprint	2015/16	Other (please specify in comments)				3,617	tCO <sub>2</sub> e	Nov - Oct
Year 2 carbon footprint	2016/17	Other (please specify in comments)				3,147	tCO <sub>2</sub> e	Nov - Oct
Year 3 carbon footprint	2017/18	Other (please specify in comments)				2,923	tCO <sub>2</sub> e	Nov - Oct
Year 4 carbon footprint	2018/19	Other (please specify in comments)				2,468	tCO <sub>2</sub> e	Nov - Oct
Year 5 carbon footprint	2019/20	Other (please specify in comments)				2,024.0	tCO <sub>2</sub> e	Nov - Oct
Year 6 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 7 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 8 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 9 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 10 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 11 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 12 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 13 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 14 carbon footprint		0				-	tCO <sub>2</sub> e	
Year 15 carbon footprint		0				-	tCO <sub>2</sub> e	

2,024.0

**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, for any such category of emission source, it is not possible to provide a simple emission factor(a) leave the field for the emission factor blank and provide the total emissions for that category of emission source in the 'Emissions' column.

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

Please select - Emission Factor Year

Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (tCO <sub>2</sub> e)	Comments
Natural Gas	Scope 2	5,162,841	kWh	0.18385	kg CO <sub>2</sub> e/kWh	949.2	
Grid Electricity (generation)	Scope 2	4,048,469	kWh	0.25560	kg CO <sub>2</sub> e/kWh	1,034.8	
Water - Supply	Scope 2	16,494	m <sup>3</sup>	0.34400	kg CO <sub>2</sub> e/m <sup>3</sup>	5.7	
Mixed recycling	Scope 2	142	tonnes	21.35400	kg CO <sub>2</sub> e/tonne	3.0	
Refuse Commercial & Industrial to Landfill	Scope 2	41	tonnes	99.75920	kg CO <sub>2</sub> e/tonne	4.1	
Paper & Board (Mixed) Recycling	Scope 2	10	tonnes	21.35380	kg CO <sub>2</sub> e/tonne	0.2	
Organic Food & Drink AD	Scope 2	7	tonnes	10.20390	kg CO <sub>2</sub> e/tonne	0.1	
Paper and Board (Mixed) Manufacture	Scope 2	7	tonnes	21.35380	kg CO <sub>2</sub> e/tonne	0.1	
Construction (Average) Recycling	Scope 2	15	tonnes	1.37000	kg CO <sub>2</sub> e/tonne	0.0	
Organic Garden Waste Composting	Scope 2	3	tonnes	10.20390	kg CO <sub>2</sub> e/tonne	0.0	
Taxi (regular)	Scope 2	20,596	passenger km	0.15018	kg CO <sub>2</sub> e/passenger	3.1	
Car - petrol (Medium car from 1.4 - 2.0 litre engine)	Scope 2	1,526	km	0.30945	kg CO <sub>2</sub> e/km	0.5	
Van - Class I (up to 1.305 tonnes) Petrol km	Scope 2	1,820	km	0.24068	kg CO <sub>2</sub> e/km	0.4	
Van - Class II (1.305 to 1.74 tonnes) Petrol miles	Scope 2	3,901	miles	0.31310	kg CO <sub>2</sub> e/ mile	1.2	
Van - Class III (1.74 to 3.5 tonnes) Petrol miles	Scope 2	2,356	miles	0.61896	kg CO <sub>2</sub> e/ mile	1.5	
Car - petrol (Medium car from 1.4 - 2.0 litre engine)	Scope 2	64,936	miles	0.30945	kg CO <sub>2</sub> e/mile	20.1	
		2,854			<b>TOTAL</b>	<b>2,024.0</b>	

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

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

Technology	Renewable Electricity		Renewable Heat		Comments
	Total consumed by the body (kWh)	Total exported (kWh)	Total consumed by the body (kWh)	Total exported (kWh)	
Solar PV					PV is on the roof of our Cardonald campus and exported by Scottish Power

**Targets**

**3d Organisational targets**

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

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

**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 <sub>2</sub> e)	Comments
Electricity	N/A - no projects carried out.	College continue to encourage reduction on energy use.
Natural gas	N/A - no projects carried out.	College continue to encourage reduction on energy use and closely monitor the BMS
Other heating fuels	N/A - no projects carried out	
Waste	N/A - no projects carried out,	however College continue to closely monitor waste and develop our waste recycling efforts
Water and sewerage	N/A - no projects carried out.	College continue to encourage reduction in water use and closely monitor the AMR in place
Travel	N/A - no projects carried out	
Fleet transport	N/A - the College continues to push the use of our Evs	
Other 1 (specify in comments)		
Other 2 (specify in comments)		
Other 3 (specify in comments)		
<b>Total</b>	-	

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

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

Project name	Funding source	First full year of CO <sub>2</sub> e savings	Are these savings figures estimated or actual?	Capital cost (£)	Operational cost (£/annum)	Project lifetime (years)	Primary fuel/emission source saved	Estimated carbon savings per year (tCO <sub>2</sub> e/annum)	Estimated costs savings (£/annum)	Behaviour Change	Comments
Replacement of MS Building Boiler plant	SFC										15% saving over previous boilers
LED lighting upgrade to 5 corridors in our Cardonald	SFC										5% - 10% saving

**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 <sub>2</sub> e)	Increase or decrease in emissions	Comments
Estate changes	N/A		
Service provision	N/A		
Staff numbers	N/A		
Other 1 (specify in comments)			
Other 2 (specify in comments)			
Other 3 (specify in comments)			
<b>Total</b>	-		

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

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

Emissions source	Total estimated annual carbon savings (tCO <sub>2</sub> e)	Comments
Electricity		Difficult to estimate at this stage
Natural gas		Difficult to estimate at this stage
Other heating fuels		Difficult to estimate at this stage
Waste		Difficult to estimate at this stage
Water and sewerage		Difficult to estimate at this stage
Travel		Difficult to estimate at this stage
Fleet Transport		
Other 1 (specify in comments)		
Other 2 (specify in comments)		
Other 3 (specify in comments)		
<b>Total</b>	-	

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

Emissions source	Total estimated annual emissions (tCO <sub>2</sub> e)	Increase or decrease in emissions	Comments
Estate changes			Difficult to estimate at this stage
Service provision			Difficult to estimate at this stage
Staff numbers			Difficult to estimate at this stage
Other 1 (specify in comments)			
Other 2 (specify in comments)			
Other 3 (specify in comments)			
<b>Total</b>		-	

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

Total savings	Total estimated emissions savings (tCO <sub>2</sub> e)	Comments
Total project savings since baseline year	2,529	

**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.

N/A

**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).

N/A

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.

N/A

**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.

Undertaken a utilities efficiency programme throughout the estate to reduce utilities consumption which has resulted in the saving

4d **Where applicable, what progress has the body made in delivering the policies and proposals referenced N1, N2, N3, B1, B2, B3, S1, S2 and S3 in the Scottish Climate Change Adaptation Programme(a) ("the Programme")?**

If the body is listed in the Programme as an body responsible for the delivery of one or more policies and proposals under the objectives N1, N2, N3, B1, B2, B3, S1, S2 and S3, provide details of the progress made by the body in delivering each policy or proposal in the report year. If it is not responsible for delivering any policy or proposal under a particular objective enter "N/A" in the 'Delivery progress' column for that objective.

(a) This refers to the programme for adaptation to climate change laid before the Scottish Parliament under section 53(2) of the Climate Change (Scotland) Act 2009 (asp 12) which currently has effect. The most recent one is entitled "Climate Ready Scotland: Scottish Climate Change Adaptation Programme" dated May 2014

Objective	Objective reference	Theme	Policy / Proposal reference	Delivery progress made	Comments
Understand the effects of climate change and their impacts on the natural environment.	N1	Natural Environment		N/A	
Support a healthy and diverse natural environment with capacity to adapt.	N2	Natural Environment		N/A	
Sustain and enhance the benefits, goods and services that the natural environment provides.	N3	Natural Environment		N/A	
Understand the effects of climate change and their impacts on buildings and infrastructure networks.	B1	Buildings and infrastructure networks		N/A	
Provide the knowledge, skills and tools to manage climate change impacts on buildings and infrastructure.	B2	Buildings and infrastructure networks		Appropriate staff attend events as required	
Increase the resilience of buildings and infrastructure networks to sustain and enhance the benefits and services provided.	B3	Buildings and infrastructure networks		Appropriate staff attend events as required	
Understand the effects of climate change and their impacts on people, homes and communities.	S1	Society		N/A	
Increase the awareness of the impacts of climate change to enable people to adapt to future extreme weather events.	S2	Society		N/A	
Support our health services and emergency responders to enable them to respond effectively to the increased pressures associated with a changing climate.	S3	Society		N/A	

#### 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).

N/A

##### 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).

College monitor utilities usage through AMR on the gas and electricity supply and tweak BMS to suit the time of year

#### 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.

Reduction in staff travel through introduction of electric cars, reduction of electricity through capital LED replacement at 2 campuses

#### 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.

N/A

## 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.

Glasgow Clyde College ensure legislative compliance with the Procurement Reform (Scotland) Act 2014 and other relevant legislation and is aligned with the College's and the Scottish Funding Council's key strategic outcomes as detailed in our Regional Outcome Agreement, Strategy Action Plan and Procurement Strategy. A key element of the new legislation require us to meet the sustainable procurement duty. Our procurement mission, detailed within our Procurement Strategy, is to support the College's wider mission by enabling and supporting the College community in achieving value for money through continually improving our sustainable procurement practice. One of our Strategic Procurement Objectives is to embed sound ethical, social and

### 5b How has procurement activity contributed to compliance with climate change duties?

Provide information relating to how procurement activity by the body has contributed to its compliance with climate changes duties.

"The Procurement Service complete Project Strategy Documents for every tender process over the value of £50k with includes a Sustainability Test. The Sustainability Test is designed to identify and priorities the Social, Environmental and Economic impacts of your procurement which then feed through to your tender document and contract management (KPI's). Glasgow Clyde College currently comply with The Sustainable Procurement Duty under the new legislation by including sustainability with Tender Specifications and as part of the Award Criteria. Please find attached an example of a Project Strategy including the Sustainability Test and an example of a Tender Documents which is in compliance with the Sustainable Procurement Duty under the

## 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.

Please see attached for a completed sustainability test. Additionally where relevant sustainability questions are utilised in evaluating tender response. Please see attached technical questionnaire for an example of this (Q 4.1)

## 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.

Cross checked against AMRs with all data coming from appropriate resources

### 6b Peer validation process

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

Reviewed interally within the estates department

### 6c External validation process

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

N/A

### 6d No Validation Process

If any information provided in this report has not been validated, identify the information in question and explain why it has not been validated.

N/A

### 6e Declaration

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

Name:	Alan McGhee
Role in the body:	Head of Estates/Facilities and Energy
Date:	25/11/2020







**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<sub>2</sub>e) and years. Please provide information on the following components using data from the links provided below. Please use (1) as the default unless targets and actions relate to (2).

(1) UK local and regional CO<sub>2</sub> emissions: **subset dataset** (emissions within the scope of influence of local authorities):

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

Local Authority:(Please State)														
DECC Dataset:(full or sub-set)														
Sector	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Units	Comments
Total Emissions													ktCO <sub>2</sub>	
Industry and Commercial													ktCO <sub>2</sub>	
Domestic													ktCO <sub>2</sub>	
Transport total													ktCO <sub>2</sub>	
Per Capita													tCO <sub>2</sub>	
Waste													tCO <sub>2</sub> e	
LULUCF Net Emissions													ktCO <sub>2</sub>	
Other (specify in 'Comments')													tCO <sub>2</sub> e	

**2a) Targets**

Please detail your wider influence targets

Sector	Description	Type of Target (units)	Baseline value	Start year	Target	Target/End year	Saving in latest year measured	Latest Year Measured	Comments

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

**Q3) Policies and Actions to Reduce Emissions**

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






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