

**Glasgow Kelvin College**

**Board of Management – 12 December 2016**

**Public Sector Climate Change Duties Report**

**Report by Vice Principal – Finance & Corporate Services**

**1. Introduction**

Members will be aware that the Scottish Government now require public bodies to submit a Climate Change Report to them on an annual basis. The purpose of this report is to provide members of the Board of Management with a copy of the College's submission and summary of its performance in respect of carbon emissions during academic session 2015/16.

This report has previously been considered by the Financial Control Committee, however, it is important that the full Board are aware of progress being made in respect of Climate Change and the commitment the College has to environmental sustainability. This is now a statutory duty and is a specific target in the Regional Outcome Agreement.

**2. Climate Change Reporting**

The College prepared its first Climate Change Action Plan (CCAP) in November 2015. This document calculated the carbon baseline for the College and set the carbon management priorities. The College now has a Sustainability and Estates Section on its website and the CCAP sits in there.

The College also submitted a Climate Change report in November 2015 to the Scottish Government, which was the pilot year for the Public Sector Climate Change reporting. This calculated the baseline carbon footprint for the College at 3,257 tonnes of CO<sub>2</sub> emissions for academic year 2014/15. The CCAP provides a full analysis of where these emissions arise from, the bulk of it relates to gas and electricity usage at the campus buildings. Water, travel and vehicle fleet emissions are also calculated and contribute to the total. The main omission from the baseline is a measurement of waste generation and recycling, this has been incorporated into the new waste management contract and will be reported on from academic year 2016/17 onwards.

Appendix 1 provides the College Climate Change Report for academic year 2016/17. This document was submitted via the on-line portal in advance of the end November 2016 deadline and its receipt has been acknowledged.

The report indicates that measured carbon emissions have reduced overall by 640 tonnes or 20%. The headline figure calculated is that carbon dioxide emissions have reduced from 3,257 tonnes in session 2014/15 to 2,617 tonnes in 2015/16.

This is due to two main factors. Firstly, energy consumption in the College Estate reduced by around 7% (measured in kwh). This may be partly due to a warmer winter than normal and / or reduced teaching activity overall (the College reduced in size by around 7% between sessions 2014/15 and 2015/16). Secondly, the conversion factor used to convert grid electricity from

kwh to tonnes of CO2 improved by around 20%. This is as a result of the electricity grid becoming less dependent upon carbon generating energy sources. The conversion factor is provided in the on-line reporting template and is not calculated by the College.

There were also significant reductions in staff travel during the year (reducing car mileage claims) which has also had a slight positive impact on emissions.

The report submitted to the Scottish Government lists all the drivers of carbon emissions the College is currently able to measure and report on. Energy and water are broken down by campus and reviewed in detail by the Sustainable Development Committee and the Estates management team.

It is intended that the College will refresh its Climate Change Action Plan and Estates Strategy during session 2016/17 to establish new targets going forward now that City Campus has been disposed of. These targets are, however, likely to be more modest in terms of planned carbon reduction.

Finally, members should note that a summary of these figures is included in the annual report and the College has established a Sustainability section on the web-site and is in the process of populating this.

### **3. Resource Implications**

There are no resource implications associated with the contents of this report.

### **4. Equality Impact**

No negative impacts on people with protected characteristics have been identified as a consequence of this report.

### **5. Risk**

The Climate Change reporting template suggests that the College should consider and seek to manage the risks associated with Climate Change. The Sustainable Development Committee will consider this in the first instance.

### **6. Recommendations**

Members of the Board of Management are recommended to:

- i) note the contents of this report and its appendix;
- ii) note the reduction in calculated Carbon emissions; and
- iii) note the action taken by the College to progress its commitment to carbon reduction and environmental sustainability.

### **7. Further Information**

Members may obtain further information relating to the contents of this report from James Gow, Vice Principal – Finance & Corporate Services, [jgow@glasgowkelvin.ac.uk](mailto:jgow@glasgowkelvin.ac.uk), Lisa Clark, Director of Corporate Services, [lisaclark@glasgowkelvin.ac.uk](mailto:lisaclark@glasgowkelvin.ac.uk), Ian Gordon, Acting Head of Estates, [igordon@glasgowkelvin.ac.uk](mailto:igordon@glasgowkelvin.ac.uk) or the Principal, [asherry@glasgowkelvin.ac.uk](mailto:asherry@glasgowkelvin.ac.uk).

JG  
November 2016  
Glasgow Kelvin College

**TABLE OF CONTENTS**

**Required**

PART 1: PROFILE OF REPORTING BODY

PART 2: GOVERNANCE, MANAGEMENT AND STRATEGY

PART 3: EMISSIONS, TARGETS AND PROJECTS

PART 4: ADAPTATION

PART 5: PROCUREMENT

PART 6: VALIDATION AND DECLARATION

**Recommended Reporting: Reporting on Wider Influence**

RECOMMENDED – WIDER INFLUENCE

OTHER NOTABLE REPORTABLE ACTIVITY

**PART 1: PROFILE OF REPORTING BODY**

**1(a) Name of reporting body**  
Glasgow Kelvin College

**1(b) Type of body**  
Educational Institutions

**1(c) Highest number of full-time equivalent staff in the body during the report year**  
496

**1(d) Metrics used by the body**  
Specify the metrics that the body uses to assess its performance in relation to climate change and sustainability.

Metric	Unit	Value	Comments
Floor area	m2	43631	11,764 sqm relates to a building which was in the process of being decommissioned and sold
Other (Please specify in the comments)	population	90346	number of credits delivered as a measure of student activity

**1(e) Overall budget of the body**  
Specify approximate £/annum for the report year.

Budget	Budget Comments
31482000	The College budget is reducing in cash terms year on year and financial management is particularly challenging with the need to identify and achieve significant cost savings.

**1(f) Report year**  
Specify the report year.

Report Year	Report Year Comments
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Academic	
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**1(g) Context**

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

Further Education College which delivers programmes of Education and Training from 5 campus buildings during session 2015/16 based in the North and East of Glasgow. The College enrolled 13,500 learners during the year, 90% of whom resided in the Glasgow Region on a variety of part time and full time courses.

The College seeks to manage its own impact on the climate and a number of its educational programmes teach climate change and related topics as part of their curriculum, particularly in science, construction and engineering programmes.

The College publishes an annual report and context statement which outline the full range of activities and the mission and vision of Glasgow Kelvin College.

## **PART 2: GOVERNANCE, MANAGEMENT AND STRATEGY**

### **2(a) 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.

The Board of Management are responsible for overseeing the strategic direction of the College and they establish the College's strategic plan. Corporate and Social Responsibility (CSR) is an important priority for the Board and the College reports in detail on its activities which contribute to the CSR agenda and have a positive impact on the communities served by the College. The College was created in November 2013 as part of the Scottish Government reform of the FE sector. The College prepared its first Climate Change Action Plan (CCAP) and Estates strategy in 2015 and it participated in the pilot Climate Change Reporting project in 2015. The Board of Management approved the CCAP which demonstrates the high level commitment to reducing carbon emissions.

The Board also considered the Estates Strategy in detail and had already taken steps to rationalise the College Estate, primarily to ensure the learner experience was a positive one and to make financial savings. This rationalisation of the Estate is also expected to result in a 25% reduction in measured carbon emissions for academic session 2016/17.

There are some activities which are undertaken by the College in partnership with community based organisations, these are a relatively small component, but are extremely important in respect of the overall mission of the College. The carbon emissions associated with this activity is not included in this report other than the staff travel to and from community venues. The College annual report provides further detail. The CCAP and Estates Strategy are available on the web site and from the College on request.

### **2(b) How is climate change action managed and embedded by 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 (JPEG, PNG, PDF, DOC)

The College operates a Sustainable Development Committee. This meets at least three times per year, it is chaired by the Director of Corporate Services and its membership is drawn from across the College and includes members of the Strategic Management Team. The CCAP provides further detail on the operation and membership of the committee. The College also seeks to ensure that students are involved in the work of the committee and activities undertaken by the College are publicised widely through a number of communication channels.

The Financial Control Committee review and scrutinise the Colleges Estates Strategy, Procurement Strategy, CCAP, Climate Change Reporting and capital investment plans on behalf of the Board who finally approve or endorse all of these documents.

The Board of Management are responsible for the Strategic oversight of the College and for ensuring that it is complying with legislation and that its activities and plans are in line with Government policy priorities.

However, the financial context and extreme change process which has faced the FE sector in recent years must be noted. The College has had to reduce in scale, make financial savings year after year and achieve efficiency savings. In this context it is difficult to prioritise carbon management and environmental sustainability. The College is not in a position to employ a member of staff to drive this agenda on a full time basis. The Capital budget has also been reduced making it impossible to finance significant projects targeted at carbon reduction. The recent Audit Scotland report on the FE sector outlines this context in further detail. Despite this challenge, Glasgow Kelvin College believes it has responded to the Climate Change agenda in a pro-active way within the resources available to it.

**2(c) 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.

Objective	Doc Name	Doc Link
Strategic Priority 5 - Working Sustainably	Strategic Plan 2016-2019	<a href="http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/governance/StrategicPlan2016-19.pdf">http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/governance/StrategicPlan2016-19.pdf</a>
The College will ensure that suppliers used have high ethical standards and high standard of commitment to Corporate Social Responsibility	Procurement Strategy	<a href="http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2014/policies/Procurement-Strategy.pdf">http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2014/policies/Procurement-Strategy.pdf</a>

**2(d) Does the body have a climate change plan or strategy?**

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

Yes, the College has a Climate Change Action Plan which has been approved by the Board of Management. It is available on the web site:

<http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2016/11/Climate-Change-Action-Plan-November-2015.doc.pdf>

**2(e) 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	Estates Strategy	<a href="http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2016/11/Estates-Strategy.pdf">http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2016/11/Estates-Strategy.pdf</a>	2015/16 - 2020-21	The Estates Strategy outlines priorities for addressing groundwater and rainwater ingress in campus buildings and works are planned to adapt college property to ensure they are well maintained for long term use.
Business travel	Climate Change Action Plan	<a href="http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2016/11/Climate-Change-Action-Plan-November-2015.doc.pdf">http://www.glasgowkelvin.ac.uk/wordpress/wp-content/uploads/2016/11/Climate-Change-Action-Plan-November-2015.doc.pdf</a>	2015/16 - 2020/21	The College has policies in respect of this and it is included in the CCAP. Much of this relates to valuable learning experiences for students. The College has an International Strategy which provides the rationale for its International activities including Erasmus and Ukier programmes which involve considerable international travel.
Staff Travel	Climate Change Action Plan	as above	as above	CCAP includes target to reduce this as a consequence of the planned estates rationalisation.
Energy efficiency	Climate Change Action Plan / Estates Strategy	as above	as above	Large reduction forecast in 2016/17 as a consequence of estates rationalisation.
Fleet transport	Climate Change Action Plan / Estates Strategy	as above	as above	The introduction of an electric vehicle to replace a diesel one has helped reduce emissions from the College vehicle fleet.
Information and communication technology	ICT Strategy	Currently under development		
Renewable energy	Climate Change Action Plan / Estates Strategy	as above	as above	College has biomass boiler, on-site wind electricity generator, photo-voltaic cells and air source heat pumps.
Sustainable/renewable heat	as above	as above	as above	as above
Waste management	Climate Change Action Plan	as above	as above	CCAP included target for procurement of a waste management service, this is now complete and the nationally negotiated procurement framework was used, the College included recycling and waste minimisation training within the tender process.



Water and sewerage	Climate Change Action Plan	as above	as above	National framework used for selection of supplier, please refer to APUC / Scottish Government
Land Use	none			
Other (state topic area covered in comments)				

**2(f) 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.

- Embedding of the Sustainable Development Committee in the life of the College
- Review of Head of Estates Job Description and Role
- Complete planned Estates rationalisation
- Calculate Estates KPI's and refresh strategy
- Collate baseline information on sustainability in the curriculum

**2(g) 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.

No - insufficient resources to complete this during session 2015-16. It is hoped that this can be undertaken during 2016-17.

#### **2(h) Supporting information and best practice**

Provide any other relevant supporting information and any examples of best practice by the body in relation to governance, management and strategy.

Sustainability is included within the Strategic Plan, Annual Report, Procurement Strategy, Estates Strategy and Climate Change Action Plan. All of which are available on the college web site.  
Glasgow Kelvin College was highlighted by Audit Scotland as the only College in Scotland which operated its Governance Arrangements in an appropriately open and transparent way.

**PART 3: EMISSIONS, TARGETS AND PROJECTS**

3a Emissions from 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 year which is used as a baseline 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.							
Reference Year	Year	Scope1	Scope2	Scope3	Total	Units	Comments
Baseline carbon footprint	2014/15	1237	1913	107	3257	tCO2e	The CCAP provides an analysis of those emissions which have been measured and details Scope 1 emissions by property.
Year 1 carbon footprint	2015/16	1132	1369	116	2617	tCO2e	reduction due to reduced energy consumption at all campus buildings and improvements in conversion factors.

3b Breakdown of emission 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.									
Total	Comments – reason for difference between Q3a & 3b.	Emission source	Scope	Consumption data	Units	Emission factor	Units	Emissions (tCO2e)	Comments
2616.9		Grid Electricity (generation)	Scope 2	3322923	kWh	0.41205	kg CO2e/kWh	1369.2	reduction in all campus buildings totalling 14%, due to reduced size of college and partial mothballing of 1 campus. improvement in emission factor also reduced calculated co2.

Natural Gas	Scope 1	6145014 kWh	0.1839968 kg 18181275 CO2e/kWh	1130.7	reduction in consumption for same reason as electricity, 8% reduction in consumption
Biomass (Wood Pellets)	Scope 1	27 tonnes	55.53148 kg CO2e/tonne	1.5	
Average Car - Unknown Fuel	Scope 3	91430 km	0.18695 kg CO2e/km	17.1	
Rail (National rail)	Scope 3	9416 passenger km	0.04885 kg CO2e/passenger km	0.5	
Long-haul flights (Premium economy class)	Scope 3	573 passenger km	0.23484 kg CO2e/passenger km	0.1	
Long-haul flights (Economy Class)	Scope 3	261285 passenger km	0.14678 kg CO2e/passenger km	38.4	
Short-haul flights (Economy class)	Scope 3	99553 passenger km	0.16508 kg CO2e/passenger km	16.4	
Domestic flight (average passenger)	Scope 3	13531 passenger km	0.27867 kg CO2e/passenger km	3.8	
Taxi (black cab)	Scope 3	3837 passenger km	0.21884 kg CO2e/passenger km	0.8	
Van - Class III (1.74 to 3.5 tonnes) Diesel	Scope 3	66900 km	0.2845328 kg 56202166 CO2e/km	19.0	

		Water - Supply	Scope 3	19078 m3	0.344 kg CO2e/m3	6.6	
		Water - Treatment	Scope 3	18124 m3	0.708 kg CO2e/m3	12.8	

### 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 organisation (kWh)	Total exported (kWh)	Total consumed by the organisation (kWh)	Total exported (kWh)	
Wind	1	0	0	0	0 no monitoring of energy generation was in place during the reporting year, however there is a wind generator on-site at the Easterhouse campus
Solar PV	1	0	0	0	0 As above, technology is in place but its energy output is not measured at present, this will be looked at in the coming year.
Biomass	0	0	131625	0	0 included above

### 3d 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	Progress against target	Year used as baseline	Baseline figure	Units of baseline	Target completion year	Comments
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Closure of City Campus	annual	880	tCO2e reduction	All energy use	excellent - building sold in August 2016	2014/15	3150 tonnes	2016/17	part of planed estates rationalisation
Improve cycling facilities	annual	100	Kilometres reduction	Staff travel	excellent - grant secured and staff now paid a milage allowance for cycling	2014/15	167115 km	2016/17	improved physical facilities planned, maintenance courses being run and promotional events
close city campus	annual	1900	M3 reduction	Water and sewerage	excellent - building sold	2014/15	17308 M3	2016/17	part of planned estates rationalisation

3e Estimated total annual carbon savings from all projects implemented by the body in the report year			
Total	Emissions Source	Total estimated annual carbon savings (tCO2e)	Comments
15	Electricity	0	large reduction planned in 2016/17 from estates rationalisation. Carbon reduction due to reduced activity, weather and improved emission factor.
	Natural gas	0	As above
	Other heating fuels	0	N/A
	Waste	0	Not included in carbon footprint but new contract now in place and data will be available in future years.

Water and sewerage	0	
Business Travel	14	reduced mileage claimed by staff following improved timetabling procedures and estates rationalisation
Fleet transport	1	Number of vehicles reduced by 1 and 1 vehicle replaced by an electric vehicle.
Other (specify in comments)		

**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 CO2e 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 (tCO2e/annum)	Estimated costs savings (£/annum)	Behaviour Change	Comments
estates rationalisation - closure of city campus	Building sale	2016/17	Estimated	0	0	50	Grid Electricity	803	600,000		Sale of building will reduce the estates footprint of the college and make significant financial and carbon savings from 1 August 2016 onwards

**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.

Total	Emissions source	Total estimated annual emissions (tCO2e)	Increase or decrease in emissions	Comments
-200	Estate changes			
	Service provision	200	Decrease	College has reduced in size during year by circa 7% with staff and student numbers reducing. This is part of the Glasgow Regional Curriculum and Estates Review.
	Staff numbers			
	Other (specify in comments)			

3h Anticipated annual carbon savings from all projects implemented by the body in the year ahead			
Total	Source	Saving	Comments
884	Electricity	483	closure of city campus against 2014/15 baseline
	Natural gas	397	closure of city campus against 2014/15 baseline
	Other heating fuels		
	Waste		college will establish its baseline recycling and waste volume data in 2016/17.



Water and sewerage		2 closure of city campus against 2014/15 baseline
Business Travel		2 estates rationalisation and improved cycling facilities will result in a further reduction in staff car mileage.
Fleet transport		
Other (specify in comments)		

3i Estimated decrease or increase in the body's emissions attributed to factors (not reported elsewhere in this form) in the year ahead				
If the emissions are likely to increase or decrease due to any such factor in the year ahead, provide an estimate of the amount and direction.				
Total	Emissions source	Total estimated annual emissions (tCO2e)	Increase or decrease in emissions	Comments
-200	Estate changes			
	Service provision	200	Decrease	College will be approximately 7% smaller again in 2016/17 as activity including learners and staff transfer to City of Glasgow College. This is included in the figures reported as part of the closure of City Campus referred to above.

	Staff numbers			
	Other (specify in comments)			

3j Total carbon reduction project savings since the start of the year which the body uses 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	Comments
647	this is the reduction in the calculated carbon footprint per above

3k Supporting information and best practice
Provide any other relevant supporting information and any examples of best practice by the body in relation to its emissions, targets and projects.
The College is seeking to rationalise its estate and increase utilisation as its first priority in making financial efficiency savings and carbon savings.

#### **PART 4: ADAPTATION**

##### **4(a) Has the body assessed current and future climate-related risks?**

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

No

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

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

The College Estates Strategy outlines the maintenance and repair priorities in respect of the College Estate. Climate change modelling indicates increased rainfall and potentially increased incidence of extreme weather as a the main likely impact on the College's locale. The Estates Strategy prioritises maintenance and repair work to ensure its buildings are watertight, addressing both rainwater and groundwater ingress. Insurance is also in place which should cover flood and weather damage to properties and associated business interruption costs.

##### **4(c) 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.

Several College programmes include climate change and its potential impacts as part of the curriculum offer. It is hoped that learners in science, hair and beauty, engineering and construction programmes in particular will leave the College with a strong awareness of climate change issues and the adaptation that may be required as a consequence. The Sustainable Development Committee will seek to address this further in the coming year.

4(d) 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")?					
<p>If the body is listed in the Programme as a 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 made' column for that objective.</p> <p>(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.</p>					
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			
Support a healthy and diverse natural environment with capacity to adapt.	N2	Natural Environment			
Sustain and enhance the benefits, goods and services that the natural environment provides.	N3	Natural Environment			
Understand the effects of climate change and their impacts on buildings and infrastructure networks.	B1	Buildings and infrastructure networks			

Provide the knowledge, skills and tools to manage climate change impacts on buildings and infrastructure.	B2	Buildings and infrastructure networks			
Increase the resilience of buildings and infrastructure networks to sustain and enhance the benefits and services provided.	B3	Buildings and infrastructure networks			
Understand the effects of climate change and their impacts on people, homes and communities.	S1	Society			
Increase the awareness of the impacts of climate change to enable people to adapt to future extreme weather events.	S2	Society			

Support our health services and emergency responders to enable them to respond effectively to the increased pressures associated with a changing climate.	S3	Society			
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**4(e) 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).

None at present, the College has had to make severe efficiency savings and cuts in recent year, it has not been able to priorities this. The Sustainable Development Committee will review whether this is a piece of work which should be prioritised in 2016/17.

**4(f) 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).

None - the College reviews the impact of all of its Estates Projects. It does not specifically model the potential impacts of climate change. The College does not have the expertise or resources to do this in a meaningful way.

**4(g) What are the body's top 5 priorities for the year ahead in relation to climate change adaptation?**

Provide a summary of the areas and activities of focus for the year ahead.



Repairs and maintenance to property per the Estates Strategy referred to previously.

**4(h) Supporting information and best practice**

Provide any other relevant supporting information and any examples of best practice by the body in relation to adaptation.

None

## **PART 5: PROCUREMENT**

### **5(a) 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 College has recently revised its Procurement Strategy and supporting policies and procedures. These include significant sections on sustainability. This is available in the procurement section of the College web site.

<http://www.glasgowkelvin.ac.uk/procurement/>

Procurement at the College is managed in partnership with APUC who use the Sustain framework to asses and evaluate suppliers, the College then seeks to utilise these frameworks and contracts wherever possible.

### **5(b) 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 re-tendering of the waste management contract had a specific requirement to provide data and assist the College in reducing waste, increasing recycling and educating learners and staff in the use of the facilities in the Colleges buildings in respect of waste management.  
Any tender opportunity above £50,000 includes a sustainability assessment as part of the evaluation criteria.

**5(c) Supporting information and best practice**

Provide any other relevant supporting information and any examples of best practice by the body in relation to procurement.



## **PART 6: VALIDATION AND DECLARATION**

### **6(a) Internal validation process**

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

All data is checked for reasonableness and accuracy where possible, eg energy bills are checked against physical meter readings. The College has undertaken no other verification work in respect of the data provided in this report.

### **6(b) Peer validation process**

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

None - the College does not have the capacity to support such a process at present.

### **6(c) External validation process**

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

None - the College does not have the resources or capacity to pay for audit activity or support an external review of the data contained in this report.

### **6(d) 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.

The information provided in this report has been compiled from bills, reports from suppliers and college management information systems. The College believes it has calculated the figures correctly within a reasonable margin of error. It has engaged with the Climate Change Reporting process pro-actively but it does not have the capacity to do any more than reasonableness checks on the data and calculations which support the figures in this report.

### **6e - Declaration**

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

<b>Name</b>	<b>Role in the body</b>	<b>Date</b>
James Gow	Vice Principal	2016-11-18

**RECOMMENDED – WIDER INFLUENCE**

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

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

(1) UK local and regional CO2 emissions: **subset dataset** (emissions within the scope of influence of local authorities):

(2) UK local and regional CO2 emissions: **full dataset**:

Select the default target dataset

Table 1a														
Source	Dataset	Sector	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Units	Comments
	DECC Sectors													
	Other Sectors													

Table 1b														
Source	Dataset	Sector	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Units	Comments
	DECC Sectors													
	Other Sectors													

Table 1c														
Source	Dataset	Sector	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Units	Comments
Other	DECC Sectors													
	Other Sectors													

**Q2a – Targets**

Please detail your wider influence targets

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

**Q2b) 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**

RPP Sector	Action Type	Description	Start year for policy / action implementation	Year that the policy / action will be fully implemented	Annual CO2 saving once fully implemented (tCO2)	Latest Year measured	Saving in latest year measured (tCO2)	Status	Metric / indicators for monitoring progress	Delivery Role	During project / policy design and implementation, has ISM or an equivalent behaviour change tool been used?	Please give further details of this behaviour change activity	Value of Investment (£)	Ongoing Costs (£/ year)	Primary Funding Source for Implementation of Policy / Action	Accountable body	Comments



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

**Q4) Partnership Working, Communication and Capacity Building.**  
Please detail your Climate Change Partnership, Communication or Capacity Building Initiatives below.

Key Action Title	Action Type	Organisation's project role	Lead Organisation (if not reporting organisation)	Private Partners	Public Partners	3rd Sector Partners	Outputs	Value to Organisation	Total Investment into Partnership	Comments

**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 Title	Key Action Description	Organisation's Project Role	Impacts	Comments

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