

Energy and Carbon Report for City of Bristol College



2020-2021

Overview of the College Estate



City of Bristol College is a large multi-site College based in the West of England with centres spread across the unitary authorities of Bristol and South Gloucestershire. City of Bristol College has a range of buildings dating from the late 1800's to our most recent building, the Advanced Construction Skills Centre, which was completed in May 2021 and

opened to the first cohort of students in September 2021.

During the 2021/22 academic year, the College will be selling one of its two Victorian buildings at the Ashley Down Centre, and partially renovating the remaining building. This will include the removal of natural gas in the commercial kitchen and the renovation of the existing windows.

Each of the buildings in the estate offer their own challenges regarding energy usage with our remaining Victorian building being grade II listed, limiting the capabilities of any external works. The design of the South Bristol Skills Academy means we have a vast atrium to heat.

The new Advanced Construction Skills Centre, based at South Bristol Skills Academy, will support City of Bristol College to establish its position as a leader in construction training in the south Bristol, one of the most deprived areas of the West of England. The building nearly doubles the number of photovoltaic solar panels across the estate.


We are one of the city's larger employers with around 900 staff across teaching and professional support. We currently educate and train around 11,000 students each year across a wide range of courses.

One of the three key themes which underpins everything we do is Sustainability & Climate Action. Our action plan sets out how we support Bristol's climate change ambitions and, through doing so, contribute to local, regional, national and international targets through our estate.

During 2021, City of Bristol College formed the Sustainability and Climate Change Action Group to create and maintain an action plan for the College to work toward net zero emissions, also working with partners across the city region. Members of the group work and study in all areas of the College, and have been active in supporting the College's goals.

City of Bristol College commits to sharing emissions data with similar organisations and appropriate partner against the financial indicators, such as staff number, energy costs etc, to allow comparison over time, this will be reflected in the next report for 2021-2022.

How we calculate our energy use:

City of Bristol College		Annual SECR disclosure		Academic year 2020 - 2021	
Base Year for emissions disclosure	2020 - 2021				
Reporting Organisation	City of Bristol College				
Person Responsible	Chris Gwynne				
Academic Reporting year	2020 - 2021				
Type of Reporting Organisation	College Corporation				
Methodology used	GHG protocols Corporate standards & SECR guidelines for College Corporations				
Emissions factors used	UK Government conversion factors for Company set				
Included Scope 3 emissions	, Waste (Landfill), WEEE, Grey Fleet (miles),				
Scope 2 emissions	Location Based Power,				
Exclusions	None				
Report Year Scope 1 emissions	Fuel Source	Volume	Unit	TCO ₂ e	Emissions change v Base Year
Heating	Natural Gas	5,407,642.00	kWh	994.30	0%
		-		-	
Transport	Diesel	27,803.80	kWh	6.69	0%
		-		-	
		-		-	
Fugitive Emissions	Various	436.25	Kgs	860.77	0%
Scope 1 Sub-Total				1,861.77	0%
Report Year Scope 2 emissions					
Location Based Power	Electricity	3,569,004.00	kWh	832.08	0%
Self Generated Renewable Power	Electricity	-	42,099.00 kWh	9.81	0%
Scope 2 Sub-Total				841.89	0%
Report Year Scope 3 emissions					
		-		-	
Waste (Landfill)	Not Disclosed	9.78	Tonnes	4.48	0%
WEEE	Not Disclosed	0.35	Tonnes	0.01	0%
Grey Fleet (miles)	Diesel and Petrol	34,173.00	Miles	9.59	0%
		-		-	
		-		-	
		-		-	
		-		-	
Gross TCO ₂ e pre offset				2,717.73	0%
Offsets					
		-		-	
		-		-	
		-		-	
Net TCO ₂ e				2,717.73	0%
Report Year Energy Intensity Ratios (S1&2)	Quantity	Report Year			
		kWh's / Unit	TCO ₂ e / Unit		
Floor area	56,109	160.48	0.04844		0%
Staff FTE	784	11,485.27	3.46650		0%
Student FTE	6,068	1,483.92	0.44788		0%
Number of Staff	1,101	8,178.43	2.46842		0%
Transport Intensity Ratios (S1&2)	Quantity	kWh's / Unit	TCO ₂ e / Unit		
Miles	-				
Per Vehicle	8	3,475.48	0.836095		0%