

Energy and Carbon Report for Richmond upon Thames College



2019-2020

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Please find the Annual Streamlined Energy and Carbon Report for Richmond upon Thames College which is a snapshot of the college energy use for the period 2019-2020. In future years, the prior year equivalent figures will be disclosed for comparison.

This reflects the College's obligations under *The Companies (Director's Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018*, for which the regulations implement the government's policy on Streamlined Energy and Carbon Reporting (SECR).

The regulations are designed to increase awareness of energy costs within an organisation, provide them with data to inform adoption of energy efficiency measures and to help them reduce their impact on climate change.

Companies above a certain size need to post energy and carbon reports on their website by 31 March 2021. This is voluntary but essential for colleges. Producing a report this year will provide a baseline for future years, making it possible for the college to benchmark its climate change impact and help get ready for future capital funding to support decarbonisation.

Please see links for [ESFA's advice](#) and note on [SECR reporting](#) explains the requirement.

What does this report contain?

- Annual UK energy use (in kWh) as a minimum relating to gas, purchased electricity and transport fuel and associated greenhouse gas emissions (in tonnes of carbon dioxide equivalent (CO₂e))
- Methodology used to calculate the required information.
- Measures taken to improve energy efficiency in the period of the report.
- Bench marking and comparison over time or with other organisations.



Overview of the College Estate



Richmond upon Thames College is in the process of a full redevelopment of its campus with all existing buildings replaced by August 2022. Currently the campus consists of a new smart building completed in February 2020, Sports Centre (due to for redevelopment in 2021) and two STEM buildings to be replaced by a new STEM Centre with construction due to start in May 2021.

During the transition to an energy efficient campus the College continues to occupy and operate a mixture of new and legacy buildings which over the coming years with the completion of the redevelopment project will help realise the College's Environmental and Suitability goals and reduce our impact on climate change.

The College employs a total of 272 staff and a student cohort of 2,400 for 2020-2021.

The new campus will help establish RuTC as a college for careers with an outstanding reputation for services to students and employers. It will bring together education, enterprise and the local community to deliver innovative curricular that utilises the latest technologies. The redevelopment of the whole site is a partnership between Richmond upon Thames College Harlequins, Clarendon School, Richmond Council and Achieving for Children.





Annual Energy use

Greenhouse gas emissions and energy use data for the period 1 August 2019 to 31 July 2020

Greenhouse gas emissions and energy use data for the period 1 August 2019 to 31 July 2020	2019/20
Gas	2,952,358
Electricity	454,237
Transport fuel	9,552
Total energy consumption used to calculate emissions (kWh)	3,416,146

Scope 1 emissions in metric tonnes CO2e	
Gas consumption	542.85
Owned transport	1.05
Total scope 1	543.90

Scope 2 emissions in metric tonnes CO2e	
Purchased electricity	105.90

Scope 3 emissions in metric tonnes CO2e	
Business travel in employee owned vehicles	1.71

Total gross emissions in metric tonnes CO2e	651.51
Intensity ratio	

Tonnes CO2e per member of staff	2.37
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How we calculate our energy use

Energy Source	Consumption		Emissions Calculation	
			Conversion factor	
Gas – total kWh (kilowatt-hours) used for the year, taken from gas bills for each site	2,952,357.89	0.18387	(2020 fuels, natural gas conversion factor gross CV to kg Co2e)	542,850.04
Electricity – total kWh used for the year, taken from the electricity bills for each site	454,236.88	0.23314	(2020 UK electricity conversion factor to kgCO2e)	105,900.79
Transport – Mini-bus 1: 607 miles in the year. Mini-bus 2: 1122 miles in the year; Work Van: 1170 miles in the year	2,899.00 4,665.48	0.189	(2020 managed assets vehicles, vans class 2 – used in lieu of passenger vehicles conversion)	0.88
Transport – total mileage for petrol reimbursed from staff claims	5,234.20	0.28052	(2020 managed assets vehicles, average car conversion factor to kgCO2e)	1.47
TOTAL				648,753.18
Intensity ratio - Emissions data (tCO2e) compared with an appropriate business activity (staff numbers)				#DIV/0!
Number of staff		272		



Measures taken to improve energy efficiency

Buildings

The college estate is in a period of flux with the move to newly constructed BREEAM excellent main campus building and the subsequent relocation of equipment and resources, including occupation of older legacy buildings presents significant challenges in realising and reducing current energy consumption and carbon footprint within the college setting currently.

However, energy consumption is expected to reduce with the relocation from the old buildings to the new building and the reduction in size of the overall campus. It is expected that **Energy and Carbon** reporting across the next three years will show significant improvements across the college in particular energy and fuel consumption, environmental and sustainability.

Lights, Heating and Energy

The new college main building has been designed with energy saving in mind with all lights controlled by sensor and timers reducing energy waste including roof mounted solar panels.

The new main building also has an efficient air handling system managing heating and cooling across the building against set temperature parameters. Similar systems are included within the design of the new STEM and Sports Buildings.



Vehicles

The College has reduced its fleet of three minibuses to two with the expiry of its current lease agreement. A new lease agreement has been negotiated with the college taking ownership of two brand-new vehicles.

The use of minibuses for educational trips and general use has been reviewed to reduce where possible unnecessary trips and fuel costs by the college. Indirectly with the outbreak of the COVID-19 pandemic all college trips and use of minibuses were suspended between February 2020 to end of March 2021.

The College has within its fleet a small van with the lease expiring imminently. Investigations are continuing to assess whether there is still a demand and a requirement for a new lease or whether the college could further reduce its carbon footprint, consumption of fuel and cost savings from retiring this vehicle. Alternative considerations are in train to consider whether an electric or eco-friendly alternative is available. The College is also currently undertaking a review of its car parking management and travel plan.



Benchmarking and Comparison

The College commits to sharing emissions data with similar organisations and appropriate partners against financial indicators, such as staff numbers, energy costs etc... to allow comparison over time, this will reflect in the next report for 2020-2021

For further information please contact

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