



**Riverside
College**
Widnes & Runcorn

Riverside College

Streamlined Energy & Carbon Report 2024-2025

Kingsway & Cronton Sixth Form Campuses

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Executive Summary

What is Streamlined Energy and Carbon Reporting?

The 2018 Streamlined Energy and Carbon Reporting (SECR) Regulations are designed to increase awareness of energy costs within organisations, provide them with data to inform adoption of energy efficiency measures and to help them to reduce their impact on climate change. They also seek to provide greater transparency for stakeholders. Within the scope of SECR reporting is the disclosure of energy use for heating, power and transport, as well as associated information on intensity ratios against previous (base) years. The Department for Business, Energy and Industrial Strategy have confirmed that Colleges are within the scope of legislation that mandates SECR reporting.

This report has been produced to meet SECR requirements for Riverside College for the period from 1st August 2024- 31st July 2025. This will cover both campuses of the College (Kingsway Campus and Cronton Campus).

2024-25 Energy and Carbon Information

The below is a summary of the findings of this report in terms of energy consumption and associated equivalent emissions. Emissions are given in terms of CO₂e, which uses the global warming potential (GWP) of Carbon Dioxide as a unit to express the emissions of any greenhouse gas.

Site	Fuel	Consumption	kgCO ₂ e	TCO ₂ e
Kingsway Campus	Gas (kWh) (Scope 1)	859,532	157,210	157.21
Kingsway Campus	Electricity (kWh) (Scope 2)	670,206	138,780	138.77
Cronton Sixth Form Campus	Gas (kWh) (Scope 1)	283,112	51,780	51.78
Cronton Sixth Form Campus	Electricity (kWh) (Scope 2)	840,000	173,920	173.92
FGAS Emissions	R32 (kg)	-	-	-
Own fleet	Petrol (Litres)	1,579	3,280	3.28
Own fleet	Diesel (Litres)	1,579	4,000	4.00
Grey Fleet	Mileage	30,980	8,320	8.32
Total			537,168	537.28

To maintain consistency across the sector and between reporting years, Colleges are encouraged to adopt an intensity ratio of tonnes of CO₂e per pupil. For the current student population at Riverside College of 6,226, the resulting value is 0.086 TCO₂e/Pupil, compared to a previous year intensity ratio of 0.117TCO₂e/pupil, and a base year intensity ratio of 0.14 TCO₂e/pupil.

The Responsibilities of the College

Based on the SECR requirements, Riverside College qualifies as a reporting body and must disclose the energy consumption figures and carbon footprints, as well as commentary on them, further analysis and intensity ratios, and a narrative regarding planned energy efficiency measures. These are covered in the following sections.

SECR Eligibility

The College

As previously discussed, Riverside College is situated across two campuses in Widnes (Kingsway Campus), and Runcorn (Cronton Sixth Form Campus). Based on the College's number of employees and financial figures, it qualifies as a reporting organisation under the scope of requirements of Streamlined Energy & Carbon Reporting.

SECR Requirements

The updated regulations published in 2018 introduced further disclosure requirements, broadening the scope of eligible organisations. The following requirements determine whether a given organisation is defined as 'large' under SECR guidelines, and therefore required to report emissions:

- Turnover: £36 million or more
- Balance sheet total: £18 million or more
- Number of employees: 250 or more

It has been confirmed by the Education Skills Funding Agency (ESFA) that Colleges meeting the above criteria will fall within the scope of the SECR regulations.

Under SECR guidelines, eligible organisations are required to disclose the following:

- Energy consumption by the organisation's operation in the UK:
 - Electrical consumption, including for the purpose of transport (kWh)
 - Gas consumption, including all stationary and mobile activities.
 - Energy consumption for the purposes of transportation (own fleet, grey fleet, hired vehicles, business trips, on-site transport.)
- The greenhouse gas emissions associated with the above
 - An intensity ratio for in-sector comparison
 - Previous (base) year's figures for energy consumption and GHG emissions.
 - Energy efficiency measures enacted.
 - Calculation methodologies to support the energy and emissions disclosures.

With over 500 staff and a balance sheet that exceeds the £18m threshold Riverside falls within the boundaries defined for SECR reporting.

Energy Consumption & Greenhouse Gas Emissions

The following subsections detail the energy consumption and emissions profile of the College for the academic year 2024/25, as well as the chosen intensity ratios. Detailed calculations are available in Appendix 1.

Emissions have been calculated using UK Government GHG Conversion Factors (2024).

- Gas kWh to kgCO₂e: 0.18290
- Electricity kWh to kgCO₂e: 0.20705
- Diesel consumption kWh to kgCO₂e: 0.23902 (x10.6 conversion for litres to kgCO₂e)
- Petrol consumption kWh to kgCO₂e: 0.22013 (x9.44 conversion for litres to kgCO₂e)

Scope 1 Energy & Emissions

Scope 1 emissions arise directly from fuel combustion on site for heating or using organisation-owned vehicles or processes. The College fleet is comprised of several vehicles, and natural gas is used for heating at both sites. In previous years, a diesel generator was used at the Cronton Campus. This was decommissioned during the 2023-24 academic year, and the impact of this can be seen reflected in overall energy consumption. Scope 1 petrol and diesel consumption can therefore be for own fleet only. For this fuel consumption, fuel spend using the college fuel card was provided, which was converted to litres for each month based on average costs from the Office for National Statistics weekly road fuel prices publication, from which kWh consumption and emissions can be calculated. It should also be noted that the FGAS records provided by the college indicate no escape of refrigerant gasses, resulting in a zero figure for this aspect of emissions. It is important to note that one recharge was noted during the reporting period, however this related to a unit which was moved and as such was drained and recharged in the new location, so no refrigerant was lost to the atmosphere.

Site	Fuel Type	Consumption	kgCO ₂ e	TCO ₂ e
Kingsway Campus	Gas (kWh)	859,532	157,210	157.21
Cronton Sixth Form	Gas (kWh)	283,112	51,780	51.78
Own fleet	Diesel (Litres)	1,579	4,000	4.00
Own Fleet	Petrol (Litres)	1,579	3,280	3.28
FGAS Emissions	N/A	-	-	-
Total			216,270	216.27

Scope 2 Energy & Emissions

Scope 2 emissions arise from the consumption of grid electricity at a given site, or where applicable, the purchase of heat, steam, or cooling such as that from a heat network. In the case of Riverside College, all Scope 2 emissions are associated with grid electricity consumption. It is important to note that, due to an issue with the Cronton Campus grid electricity meter, estimated data was provided by the College for grid electricity consumption at the Cronton Campus.

Site	Energy Type	Consumption	kgCO ₂ e	TCO ₂ e
Kingsway Campus	Electricity (kWh)	670,206	138,780	138.77
Cronton Sixth Form	Electricity (kWh)	840,000	173,920	173.92
Total	Electricity (kWh)	1,510,206	312,690	312.69

Scope 3 Emissions

Scope 3 emissions comprise any other voluntarily disclosed emissions which fall outside the direct control of the organisation. This can include purchased goods, supply chain transport emissions, distribution and employee business travel. In the case of Riverside College, grey fleet fuel card mileage and spend has been provided. Mileage can be converted directly to an emissions estimate using the appropriate emissions conversion factor. Please note that the conversion factor applied in this case was for an “Unknown” vehicle as the type of fuel/vehicle for each claim was not provided.

Site	Energy Type	Consumption	kgCO ₂ e	TCO ₂ e
Both	Mileage (Unknown Vehicle Type)	30,980	8,320	8.32

During 2022, Riverside College commissioned a full organisation carbon foot printing exercise, performed by Hillside Environmental Services. As a part of this exercise, various Scope 3 emissions were voluntarily disclosed, including those arising from water consumption and treatment, waste disposal, grey fleet emissions, consumption of various curriculum materials, and student & staff commutes.

Intensity Ratio

Based on the organisation type, the College has adopted a carbon footprint intensity ratio based on student population. The calculated intensity ratio for 2024/25 demonstrates a significant improvement in emissions for the College, despite the total student cohort growing slightly.

Student Population	Total Emissions/TCO ₂ e	Calculated Intensity Ratio (TCO ₂ e/Student)
6,226	537.28	0.086

Energy Efficiency Measures 2024/25

Since the previous SECR report, the following energy efficiency measures have been adopted.

- The art area (6no classrooms and 1no staffroom) has been fully refurbished and is now fully heated by a system of AHUs and a/c units which has been disconnected from the wet system. As such this space is now fully electrified.

Reporting History

Three previous SECR exercises have been completed for Riverside College, in the academic years 2020-2021, 2021-2022, 2022-2023 and 2023-2024. Displayed below is a comparison of the previous report findings alongside this year's findings. A significant decrease in overall carbon emissions has been noted compared to previous years, which has resulted from a marked decrease in all aspects of energy consumption across the two sites.

	Base year: AY 2020	Previous reporting year: AY 2022	Previous reporting year: AY 2023	Previous reporting year: AY 2024	Current Reporting Year: AY 2025
(Scope 1) /TCO _{2e}	290.26	301.8	298.75	328.40	216.27
(Scope 2) /TCO _{2e}	315.81	311.09	271.47	326.44	312.69
Total gross TCO_{2e} (S1&2)	606.07	618.67	570.22	654.84	528.96
Scope 3 Emissions/TCO _{2e}	7.88	5.78	2.75	8.21	8.32
Energy consumption used to calculate the above emissions (kWh)	2,903,499	3,038,356	2,923,521	3,282,338	2,684,485

AY – Denotes Academic year (September to August)

Appendix 1- Energy & Greenhouse Gas Calculation Methodology

Data was retrieved as follows:

- Energy data for natural gas and electrical consumption was provided by the College, as monthly metered consumption totals for each of the two sites in kWh.
- Diesel and petrol consumption for the College own fleet was provided in the form of fuel card spend. This was converted to litres of consumption based on average fuel price for the months in question, which was then converted to an emissions profile using conversion factors as stated below.
- Grey fleet petrol consumption was provided based on mileage claims, which were converted directly to emissions figures based on the appropriate emissions conversion factor.
- FGAS records were provided, which demonstrated that no refrigerant was lost to the atmosphere during the reporting period. As such, the associated emissions are zero.

To develop the carbon footprint profile for each aspect of college energy consumption, the UK Government carbon factors were used for the years 2024-25.

Site	Fuel	Consumption	Conversion	kgCO ₂ e	TCO ₂ e
Kingsway	Gas (kWh)	kWh	0.18290	157,210	157.21
Cronton	Gas (kWh)	kWh	0.18290	51,780	51.78
Kingsway	Grid Electricity (kWh)	kWh	0.20705	138,780	138.77
Cronton	Grid Electricity (kWh)	kWh	0.20705	173,920	173.92
Kingsway	Own fleet	Petrol (Litres)	0.22013	4,000	4.00
Cronton	Own fleet	Diesel (Litres)	0.23902	3,280	3.28
College	Grey Fleet Mileage	Miles	0.2686	8,320	8.32

Appendix 2- Assessment Parameters

Baseline year	2019/20
Reporting Organisation	Riverside College
Person Responsible	Simon Smith
Reporting Period Covered	Annual full year from 1 st Aug 2024
Organisation boundaries	Facilities and operations over which Riverside College has operational control/influence
Methodology used	GHG protocols corporate standards for SECR Reporting guidelines
Emissions factors used	UK Government conversion factors for Company set
Exclusions	Water, waste
Included Scope 3 emissions	Grey fleet
Scope 2 emissions	Combined location & market-based emissions factors
Sequestration	None