



Streamlined Energy and Carbon Reporting (SECR) Disclosures

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Reporting Period: 1 August 2024 to 31 July 2025

Overview

This report summarises NCG’s energy usage, associated emissions, energy efficiency actions and energy performance under the government policy Streamlined Energy & Carbon Reporting (SECR). This is implemented by the Companies (Directors’ Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018.

Under the legislation, NCG must disclose its energy consumption, emissions, intensity metrics and all energy efficiency improvements implemented for all UK operations.

Greenhouse Gas Emissions and Energy Use Data

The following charts and table show the consumption and associated emissions for the financial years ending July 2025 and July 2024 for all operations.

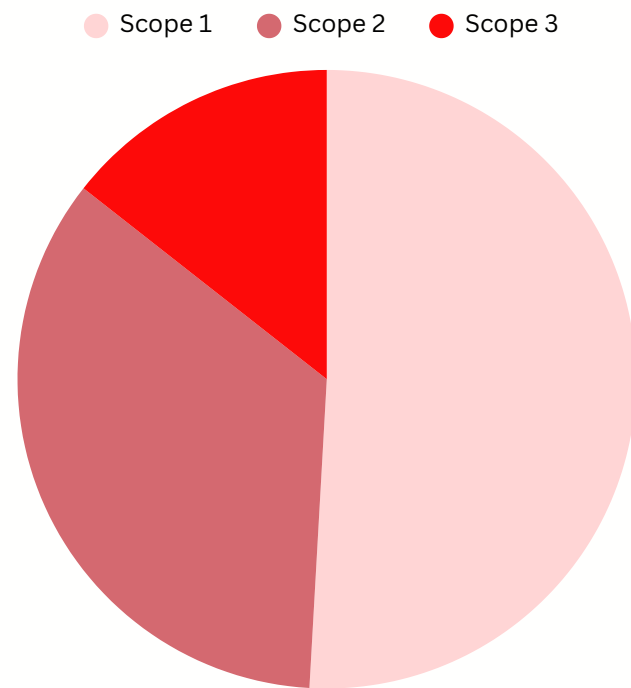


Figure 1: Scope 1, 2 and 3 emissions (tCO₂e) from 1 August 2024 to 31 July 2025

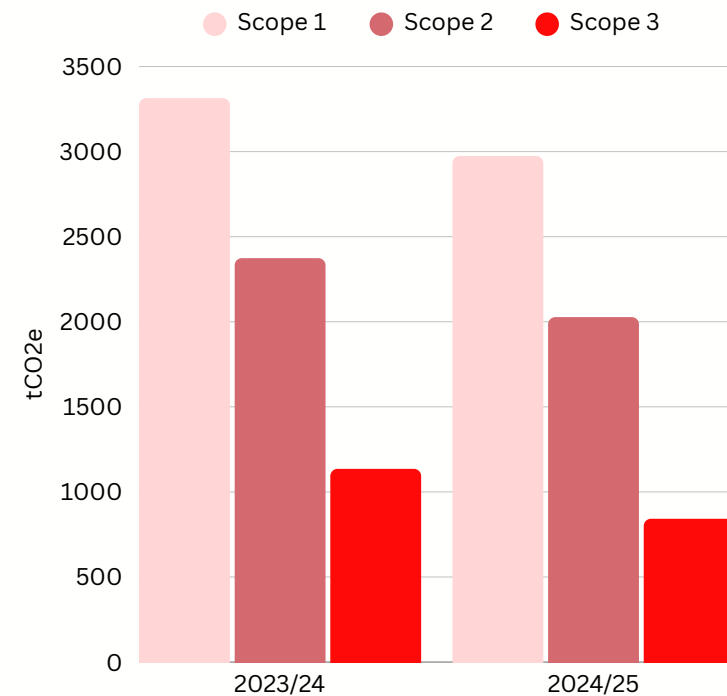


Figure 2: Scope 1, 2 and 3 emissions (tCO₂e): this reporting period vs. the previous reporting period.

Greenhouse gas emissions and energy use data for the period 1 August 2024 to 31 July 2025- UK	Unit	Current reporting year 2024 to 2025	Comparison reporting year 2023 to 2024
Energy/ Other consumption break down used to calculate emissions			
Gas	kWh	15,265,260	17,104,366
Electricity	kWh	11,454,376	11,465,080
Fleet Vehicles	L	5,194	6,073
Other Fuel	L	6,420	14,829
Fugitive Emissions	kg	77	68
Scope 1 emissions in metric tonnes CO₂e			
Gas	tCO ₂ e	2,792.02	3,128.39
Fleet Vehicles	tCO ₂ e	13.19	15.26
Other Fuel	tCO ₂ e	20.36	38.80
Fugitive Emissions	tCO ₂ e	148.53	131.60
Total scope 1	tCO₂e	2,974.19	3,314.05
Scope 2 emissions in metric tonnes CO₂e			
Purchased electricity	tCO ₂ e	2,027.42	2,373.84
Total scope 2	tCO₂e	2,027.42	2,373.84
Scope 3 emissions in metric tonnes CO₂e			
Water supply	tCO ₂ e	13.95	8.63
Water treatment	tCO ₂ e	12.46	10.26
Waste	tCO ₂ e	19.62	20.59
Electricity (Transmission and Distribution)	tCO ₂ e	212.25	209.81
Grey Fleet	tCO ₂ e	14.69	17.70
Business Travel	tCO ₂ e	569.09	868.37
Total scope 3	tCO₂e	842.05	1,135.35
Total gross emissions in metric tonnes CO₂e			
Total scope 1, 2 & 3	tCO₂e	5,843.67	6,823.25
Intensity Ratio			
Intensity ratio 1	Staff Numbers	2,732	2,598
Tonnes CO ₂ e per member of staff	tCO ₂ e/ Staff	2.14	2.63
Intensity ratio 2	GIA	176,998	197,043
kg CO ₂ e per m ²	kgCO ₂ e/m ²	33.02	34.63

Scope and Boundary

Scope 1 and 2:

All Scope 1 and 2 emissions directly purchased are included within the reporting boundary. Emissions outside direct purchase, such as where a landlord purchases gas on the College's behalf and incorporates the unmetered charge into the rental fees, are excluded from Scope 1 and 2 reporting.

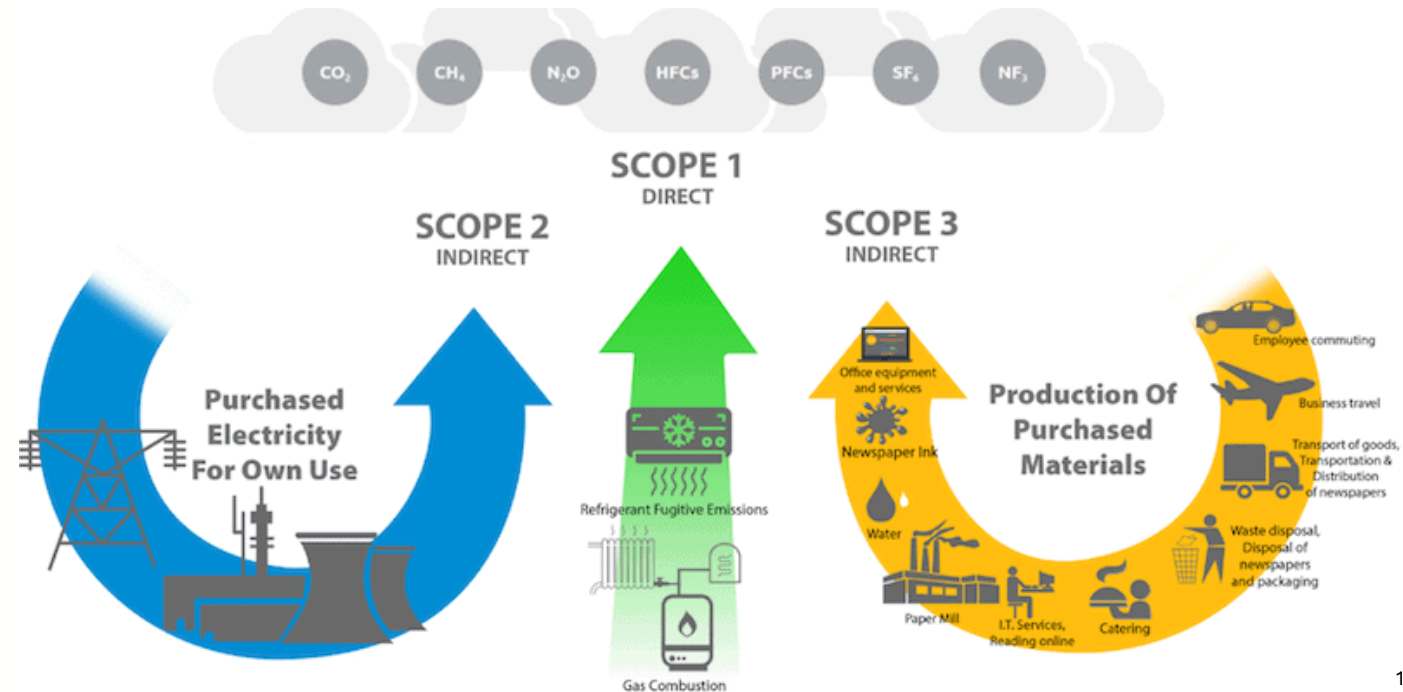
Scope 3:

Like 2023/24, Scope 3 emissions reported in 2024/25 are:

- Water supply
- Wastewater
- Waste
- Electricity (transmission and distribution)
- Grey Fleet
- Business Travel

Business travel emissions are included where data is available and cover hotel stays, air travel, car rental and rail journeys undertaken for NCG activities.

These categories are chosen as the primary data required for an accurate SECR submission is available.



1

Intensity Measurement

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO₂e per staff member (FTE), as recommended for the sector², enabling comparison with similar organisations. A second intensity ratio, total gross emissions in kg CO₂e per square meter of floor area, was also selected as it aligns more closely with the College's emissions profile and may provide a more relevant measure for future comparison.

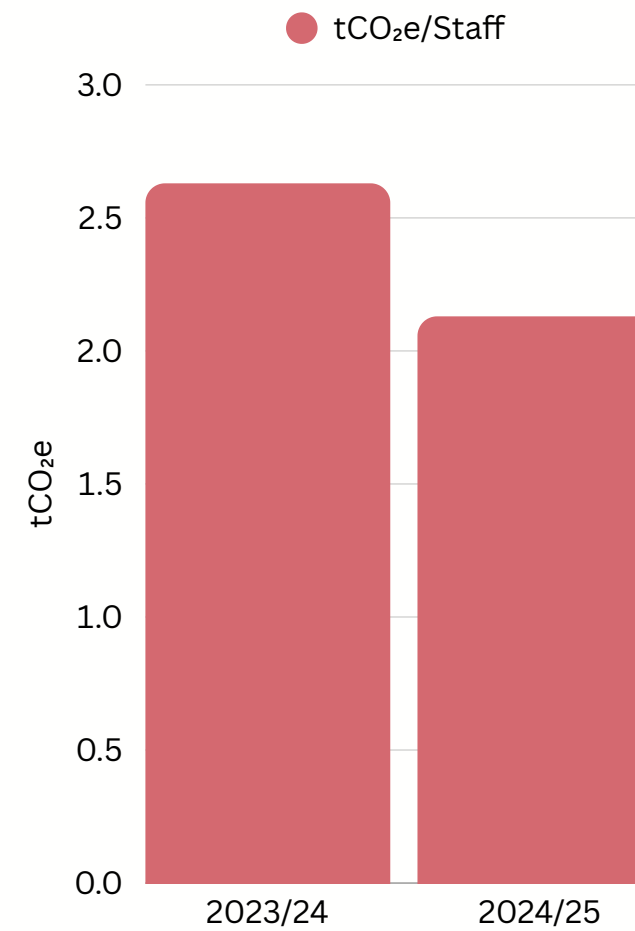


Figure 3: Comparison of the tCO₂e/Staff intensity measurement ratio this reporting period vs. the previous reporting period.

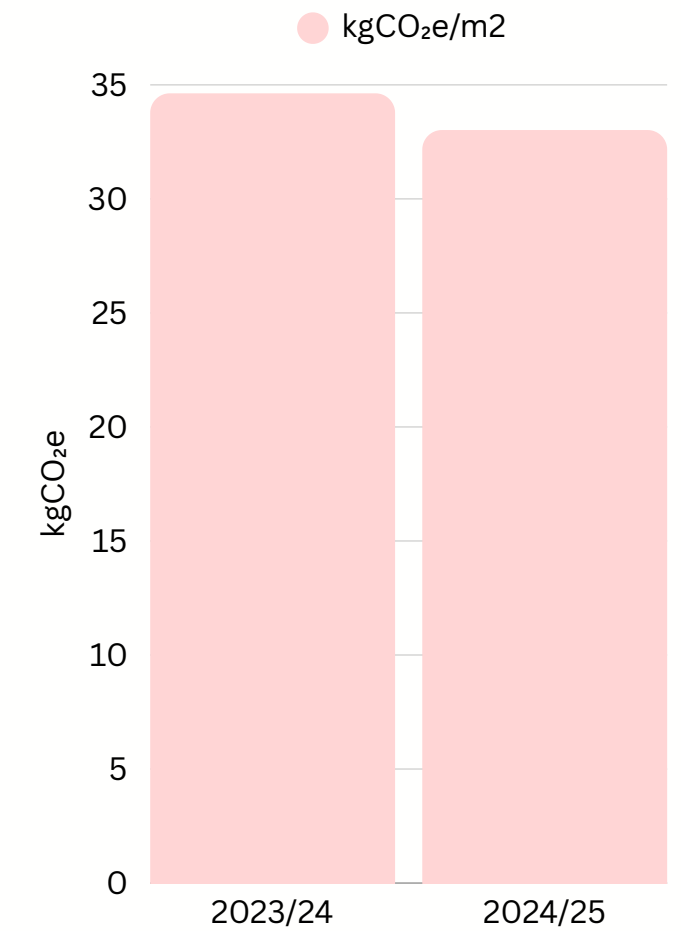


Figure 4: Comparison of the kgCO₂e/m² intensity measurement ratio this reporting period vs. the previous reporting period.

¹<https://www.compareyourfootprint.com/difference-scope-1-2-3-emissions/>

²<https://www.gov.uk/government/publications/college-corporation-financial-management-good-practice-guides/streamlined-energy-and-carbon-reporting-for-college-corporations>

Quantification and Reporting Methodology

The submission follows the 2019 HM Government Environmental Reporting Guidelines for calculating emissions. Additionally, the Greenhouse Gas (GHG) Reporting Protocol – Corporate Standard has been applied, using the UK Government’s 2025 Conversion Factors for Company Reporting as follows:

Category	Emission	kgCO ₂ e	Unit
S1- Gas	Gas	0.1829	kWh
S1- Fugitive	R401A	1924	kg
S1- Other Heating Fuel	Fuel Oil	3.17492	Litres
S1- Other Heating Fuel	Petrol (100% mineral petrol)	2.33984	Litres
S1- Fleet Vehicles	Diesel (average biofuel blend)	2.57082	Litres
S1- Fleet Vehicles	Urea (Ad Blue)	0.238	Litres
S1- Fleet Vehicles	Petrol (average biofuel blend)	2.06916	Litres
S2- Grid Electricity	Grid Electricity	0.17700	kWh
S3- Grey Fleet	Diesel Average Car	0.27849	miles
S3- Grey Fleet	Petrol Average Car	0.26187	miles
S3- Grey Fleet	Electric Average Car	0	miles
S3- Water Supply	Water Supply	0.19130	Cubic M
S3- Water Waste	Water Waste	0.17088	Cubic M
S3- Electricity T&D	Electricity T&D	0.01853	kWh
S3- Waste	Non- Hazardous Industrial (EfW)	4.68568	tonnes
S3- Business Travel	Hotel Stays (UK)	10.4	Room per night
S3- Business Travel	Hotel Stays (London)	11.5	Room per night
S3- Business Travel	Domestic, to/from UK (Average passenger)	0.22928	km
S3- Business Travel	Short-haul, to/from UK (Average passenger)	0.12786	km
S3- Business Travel	Long-haul, to/from UK (Average passenger)	0.15282	km
S3- Business Travel	Lower medium Car (Unknown fuel)	0.15473	km
S3- Business Travel	Supermini Car (Unknown fuel)	0.14194	km
S3- Business Travel	Executive Car (Unknown fuel)	0.17846	km
S3- Business Travel	Luxury Car (Unknown fuel)	0.25196	km
S3- Business Travel	National rail	0.03546	km
S3- Business Travel	London Underground	0.0278	km

Data has been gathered from a variety of sources:

Data	Source
Gas	Utility bills
Fleet Vehicles	Estates Held Information
Transport Fuel	Estates Held Information
Fugitive Emissions	Estates Held Information
Purchased electricity	Utility bills
Water (Supply)	Utility bills
Water (Sewerage)	Utility bills
Waste	ISS
Electricity Transmission & Distribution	Utility bills
Grey Fleet	Estates Held Information
Business Travel	Click Travel

Measures Taken to Improve Energy Efficiency

Kidderminster College Energy Efficiency Project:

Completion of the Kidderminster Energy Efficiency Project which includes:

- Installation of reduced capacity, high efficiency boilers
- Upgrade of heat emitters to allow operation at a lower flow and return temperatures
- Installation BMS control system and thermostatic radiator valves
- Ventilation reheat coils replaced direct expansion fed units
- Installation of 23.32 kWp Solar System
- LED Lighting Upgrade and Controls

A reduction of over 80,000 kWh (~£8,000) recorded during January to March 2025.

District Heating Connection:

NCG has entered into a 40-year supply agreement with Regenerate Partnership (comprising Bring and Newcastle City Council), who own and operate the Helix District Energy Network. Work is currently underway to extend the existing network, with an energy-on date scheduled for May 2026. This will provide heat to the following seven NCG buildings on the Rye Hill Campus:

- Lifestyle Academy
- Rye Hill House
- Performance Academy
- Sixth Form
- Rye Hill Sports Centre
- Mandela
- Parsons

A key next step includes initiating the investigation and development of secondary system upgrade works to improve efficiency and reduce return temperatures following connection to the Helix District Energy Network.

Fluorescent to LED Lighting Upgrade:

Completion of a campus wide LED roll out scheme providing significant energy (~60%) carbon and maintenance savings as well as wider benefits including increasing productivity and focus at the following buildings:

- Rye Hill Campus
 - o Sports Centre
 - o HQ/Rye Hill House
 - o 6th Form College
 - o Mandela
 - o Parsons Tower
 - o Armstrong House
 - o Performance Academy
 - o Lifestyle Academy
 - o Library
 - o Nursery
 - o Trevelyan Building
 - o Rutherford
- Carlisle College Campus
 - o Victoria Place
 - o Carlisle College of the Arts
- Satellite Site
 - o Aviation Academy
 - o Energy Academy

In addition to the completed upgrades outlined above, NCG are initiating the development of a fluorescent lighting replacement and lighting control system upgrade at West Lancashire College.

Commencement of 4no. Solar PPA schemes Carlisle and West Lancashire Colleges:

Commencement 379kWp total solar schemes at:

- West Lancashire College: 190,582kWh/yr expected generation
- Carlisle Art Block: 52,084 kWh/yr expected generation
- Carlisle A Block: 44,558 kWh/yr expected generation
- Carlisle D Block: 41,756 kWh/yr expected generation

InMetriks (Carbon Architecture) Trial Completion:

In December 2024, Southwark Campus Building Management System (BMS) data points were successfully integrated with InMetriks. A suite of analytics rules was configured to process the incoming data from mechanical and electrical systems. This led to several optimisation opportunities being identified, including:

- Correction of faulty control logic enabling demand lead control
- Correction of actuator control logic
- Identification of a faulty bypass valve
- Re-establishment of night setback controls

The system is now fully operational and continues to identify further energy efficiency opportunities. The success of the trial has enabled the programme to be extended to two additional sites, scheduled for late 2025:

- 6th Form Building
- Parsons

Development of Campus Solar PV Opportunities:

NCG are actively investigating additional renewable energy opportunities on the Rye Hill Campus, specifically through the potential deployment of solar PV systems at the following buildings:

- Parsons Tower: 59,649 kWh/yr expected generation
- Performance Academy: 173,242 kWh/yr expected generation
- Lifestyle Academy: 110,263 kWh/yr expected generation
- Sixth Form College: 92,685 kWh/yr expected generation