



EXECUTIVE SUMMARY

2024

Mandatory Carbon & Streamlined Energy
& Carbon Reporting



Executive Summary

What is SECR?

Streamlined Energy and Carbon Reporting (SECR) is a mandatory UK government framework that replaced the Carbon Reduction Commitment (CRC) Energy Efficiency Scheme in April 2019. It was introduced by the government to simplify carbon and greenhouse reporting and reduce the administrative burden for companies. Companies that meet the eligibility criteria for SECR must submit a report in their Directors' Report.

Qualification criteria:

- Quoted companies of any size that are required to prepare a Directors' Report
- UK registered, unquoted large companies as defined in the Companies Act 2006. This refers to companies that fulfil at least two of the following three conditions in the financial year for which they are reporting:
 - I. at least 250 employees.
 - II. an annual turnover of £36m or more; and/or
 - III. an annual balance sheet total greater than £18m.

To comply with SECR, a company needs to declare its carbon emissions from the previous 12 months against the Green House Gas Protocol and ISO 14064-1 methodology, Scope 1 & 2. Alongside this, a narrative description needs to be included which details measures taken by the business throughout the previous 12 months to improve the energy efficiency of its estate.

About Compliance365

Compliance365 is a specialist independent Carbon & Sustainability Company offering a range of energy consultancy services nationwide including legal compliance, energy efficiency and carbon reduction audits. Nottingham College appointed Compliance365 to perform their Streamlined Energy and Carbon Reporting assessment.

Scope

A SECR assessment comprises three Scopes;

Scope 1 (Direct emission, Mandatory): Activities owned or controlled by your organisation that release emissions straight into the atmosphere. They are direct emissions. Examples of scope 1 emissions include emissions from combustion in owned or controlled boilers, furnaces, vehicles; emissions from refrigerant (F gases) in owned or controlled equipment.

Scope 2 (Energy indirect Mandatory): Emissions being released into the atmosphere associated with your consumption of purchased electricity, heat, steam and cooling. These are indirect emissions that are a consequence of Nottingham Colleges activities, but which occur at sources you do not own or control. **Scope 3 (Other indirect, Discretionary*):** Emissions that are a consequence of your business activities which occur at sources which you do not own or control and which are not classed as scope 2 emissions. Examples of scope 3 emissions are business travel by means not owned or controlled by your organisation, waste disposal, or purchased materials or fuels. Carbon dioxide produced from the combustion of biomass / biofuels¹⁷ should be reported separately to emissions in scopes 1, 2, and 3¹⁸. Carbon dioxide produced from biomass / biofuels not as a result of the combustion of biomass / biofuels (e.g., industrial fermentation) should be reported within the scopes.

This report details how Nottingham College has complied with Scopes 1 and 2 of the methodology over the academic year August 2022 to July 2023.

Carbon Reduction Drive

Below details the measures Nottingham College have taken over the past 12 months to reduce their energy consumption and carbon emissions. There has been a focus on reducing their carbon footprint with the below presenting the achievements across the campuses.

Utilities

Nottingham College's contract for the procurement of electricity came to an end in March 2022, and there was a want to ensure a positive impact on their Carbon Footprint made when entering into a new agreement. The decision was made to enter a Green Electricity Contract with REGO certificates. The Renewable Energy Guarantees of Origin (REGO) scheme provides transparency to the consumers about the proportion of electricity that suppliers source from renewable generation. In Nottingham College's case this was stipulated to being 100%. It meant that going forward, Nottingham College could complete their SECR emissions utilising both the Location and Market based approach to take advantage of their REGO electricity procurement.



Energy Reduction Projects

During the last Academic Year, Nottingham College implemented a number of Energy Reduction Projects across their sites. These have been listed below and have resulted in a 29% reduction against last years reported figures:

- Upgrading to LED lighting in 25 Stoney Street
- Installed a PV Solar Array on 25 Stoney Street
- Replaced the existing air con within 16 Stoney Street and High Pavement with new efficient units
- Replaced 25% of lighting throughout High Pavement with new LED lamps
- Repaired the CHP and existing solar array on Basford Hall
- Commenced a Salix sponsored Decarbonisation Project on Adams Building and Highfields
- Reduce the operating fleet to 5 vehicles

Waste & Water Management

Nottingham College has focused on reducing the annual amount of waste sent to Landfill and their overall water usage. Throughout 2021 and 2022, they worked to ensure 100% of their water is either recovered or recycled. In April 2022, their reported recycling rate had improved to 55% with general waste falling to 45%. All general waste is fully recovered and sent to incineration where 1 tonne of refuse produces 550 KW of energy. The City Hub is connected to Nottingham's district heating system, which is fuelled by incinerated waste, including that recovered by the College.

Energy Compliance Legislation

Display Energy Certificates & TM44 Legislation

Due to being a College in the Public Sector, there are a number of Energy Compliance Legislations that need to be adhered to. Nottingham College commission and complete annual Display Energy Certificates and 5 yearly TM44 Reports to ensure compliance with the EPBD legislation.



Greenhouse Gas Emissions (GHG) Statement

The greenhouse gas emissions statement (GHG) below provides a summary of Nottingham College's Greenhouse Gas (carbon) emissions from 01 August 2023 to 31 July 2024. It gives a summary of emissions from fuel combustion and the operation of our facilities, which include our offices and company cars (Scope 1), and from our purchased electricity used during the year (Scope 2). We have adopted the operational control approach, as defined in The Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard (Revised Edition), 2004.

Following the completion of our baseline year in 2019, this report will include three sets of results which when compared, show a reduction in tonnes of CO₂ emissions per m². Going forward, we will continue to make a year-on-year comparison, highlighting savings seen, along with identifying and explaining any increases. This has also formed a strong base for our NetZero Roadmap and allows us to monitor our progress against our targets. To accurately report on the REGO certified electricity tariff, the emissions below have been calculated utilising both the location and market-based approaches.

The Location Based Approach ensures emissions reflect the average emissions intensity of the grids on which energy consumption occurs. It utilises an average conversion factor which accounts for the range of emissions produced by the make-up of the grid e.g., that 50% of the electricity is produced through renewables, factoring in the residual mix.

The Market Based Approach ensures emissions reflect the make-up of the energy consumed from the grid as reported by the company and provided by the utility provider. The method accounts for energy attribute certificates such as REGO's which certifies that the electricity consumed is generated through renewables therefore resulting in reduced if not no carbon emissions. A mix of both the Market Based and Location Based approach can be used where REGO certificates are not available for all Scope 2 emissions across the estate.

Due to a lack of available data at the time of reporting, FGas emissions have been based on those reported as part of Nottingham College's 2022 – 2023 statement.



College

Assessment parameters

Baseline year	2019
Consolidation approach	Operational control
Boundary summary	All facilities under operational control were included in this report
Consistency with the financial statements	The use of the operational control approach causes a variation in those assets listed in our financial statements, including 11 UK College buildings which were under our operational control, appear in our emissions table. 9 of the above buildings are Academic with the remainder being Non Academic.
Emission factor data source	Defra (July 2023)
Assessment methodology	The Greenhouse Gas Protocol and ISO 14064-1 (2006)
Materiality threshold	Materiality was set at group level at 5%, with all facilities estimated to contribute >1% of total emissions included.
Intensity ratio	Gross Internal Area (M ²)

Location Based Approach

Years	Nottingham College 2023 - 2024		Nottingham College 2022 - 2023		Nottingham College 2021 - 2022		Nottingham College 2020 - 2021		Nottingham College 2019 - 2020	
	tCO2e	tCO2e/M ²								
Scope 1										
Fuel*	838.81	0.01	1204.05	0.02	970.10	0.01	1,039.70	0.01	1,620.60	0.02
Fgas	62.43	0.00	62.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	901.24	0.01	1266.49	0.02	970.10	0.01	1,039.70	0.01	1,620.60	0.02
Scope 2										
Electricity	889.27	0.01	905.35	0.01	946.22	0.01	1,144.62	0.01	1,617.96	0.02
Stat Total	1790.51	0.02	2171.83	0.03	1916.29	0.03	2,184.32	0.02	3,238.56	0.03
Group Metrics										
M ²		75645.00		75255.00		75255.00		109,428.00		103,813.00
Intensity Ratio tCO2e/M ²		0.02		0.03		0.03		0.02		0.03



Market Based Approach

Years	Nottingham College 2023 - 2024		Nottingham College 2022 - 2023		Nottingham College 2021 - 2022		Nottingham College 2020 - 2021		Nottingham College 2019 - 2020	
	tCO2e	tCO2e/M ²								
Scope 1										
Fuel*	838.81	0.01	1204.05	0.02	970.10	0.01	1,039.70	0.01	1,620.60	0.02
Fgas	62.43	0.00	62.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	901.24	0.01	1266.49	0.02	970.10	0.01	1,039.70	0.01	1,620.60	0.02
Scope 2										
Electricity	0.00	0.00	0.00	0.00	946.22	0.01	1,144.62	0.01	1,617.96	0.02
Stat Total	901.24	0.00	1266.49	0.02	1916.29	0.03	2,184.32	0.02	3,238.56	0.03
Group Metrics										
M ²		75645.00		75255.00		75255.00		109,428.00		103,813.00
Intensity Ratio										
tCO2e/M ²		0.01		0.02		0.03		0.02		0.03



Data and Assumptions

This document has been prepared using data and documents provided by Nottingham College relating to its activities that cause greenhouse gas emissions (GHGs). The contents and accuracy of this report are dependent on Nottingham College supplying data (as part of its 2023 - 2024 carbon footprint) as accurately as possible.

Where data was not provided, we have made estimates and assumptions where needed. Certain figures may have been based on reports supplied by third party sources and the accuracy of this information is limited to the accuracy of these reports and sources. Assumptions may have been made in calculating some of the elements of the enclosed materials. For details of any assumptions and calculations made, please contact the authors of this report.

Statement of Responsibility

This report is a draft compilation for review and approval by Nottingham College. In receiving this, you should satisfy yourself that all assets/facilities under the operational control of Nottingham College during FY 23-24 have been included in your data submission to us, including all greenhouse gas sources and that this data is accurate to the best of your knowledge.

This report is confidential to Nottingham College and prepared solely for the purpose(s) set out in our written quote dated 30th of May 2024. You should not refer to or use our name or the report for any other purpose, disclose them or refer to them in any prospectus or other document, or make them available or communicate them to any other party. No other party is entitled to rely on our report for any purpose whatsoever and we accept no duty of care or liability to any other party who is shown or gains access to this report.

