

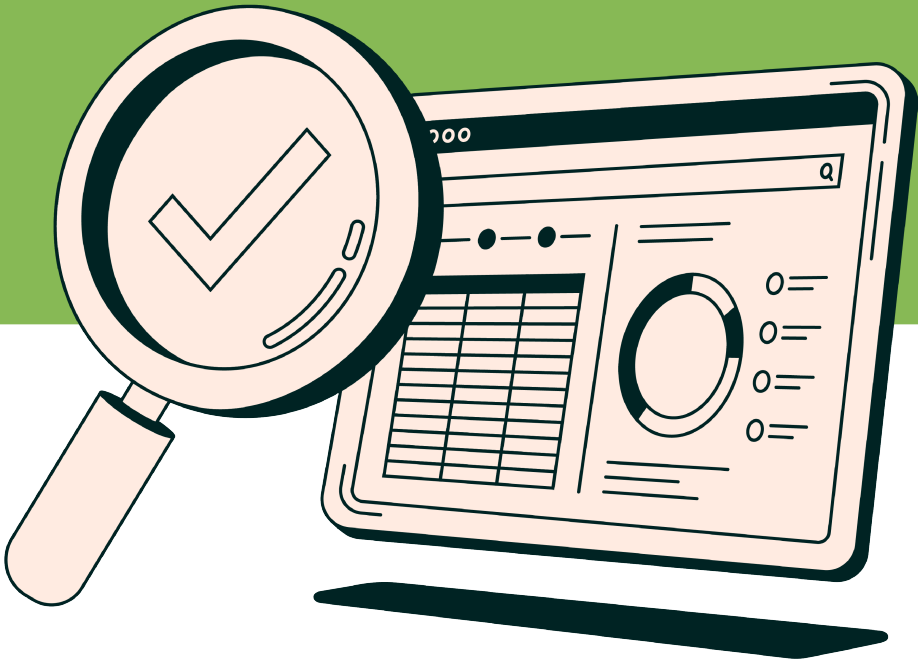
Streamlined Energy & Carbon Report

Colchester Institute

Report Period: August 2025 - July 2026

Report Date: 24-08-2026

Powered By:  **pulse**
net zero software



trident

This report has been produced by **Trident Utilities Ltd** using Pulse Net Zero accounting platform for **Colchester Institute**.

Company Overview

Colchester Institute Corporation was established under The Further and Higher Education Act 1992 to conduct Colchester Institute. Colchester Institute is an exempt charity for Part 3 of the Charities Act 2011 with the main college campus at Colchester Institute, Sheepen Road, Colchester, Essex, CO3 3LL and a secondary college campus at Church Lane, Braintree, Essex, CM7 5SN plus 4 additional outreach delivery sites.

Colchester Institute provides first class education, professional development and technical skills training to over 10,000 young people and adults every year. The College supports individuals to launch or develop their careers, and local businesses to access the skills and talent they need to thrive.

Reporting Period

August 2025 - July 2026

Net Zero Commitment Date

2045

Benchmark Year

The base year is August 2020 - July 2021 and the reported emissions during that period were 1,598 tonnes CO₂e.

The emissions for the current period show a significant reduction of 838 tonnes CO₂e when compared to the base year.

Qualification & Reporting Methodology

This report has been created following the Environmental Reporting Guidelines: including Streamlined Energy and Carbon Reporting (SECR) requirements issued by the UK Government in March 2019.

Emissions have been calculated following the GHG Reporting Protocol - Corporate Standard and using the UK Government Greenhouse Gas Reporting Conversion Factors relevant to the reporting period (2025 and 2026) where available. Where emissions without published conversion factors have been used, these have been determined by Pulse Net Zero in consultation with relevant stakeholders and any industry standards.

Intensity Measurement

The reported intensity metric is gross emissions in tonnes CO₂e per Employee as this best reflects business activity. The intensity measurement will be reported each year, with a comparison made against the previous year's performance. The intensity metric shows 32.0% decrease when comparing the current year with the previous year.

Reporting Boundary

The reporting boundary of the business has been used to determine the reporting boundary. Reporting is carried out at Colchester Institute Corporation level.

Operational Scope

Emissions from scope 1 and 2 have been measured in accordance with SECR requirements. The scope 3 emissions that have been included are:

- Fuel & Energy Related Activities
- Business Travel

Exclusion

There are no data exclusions in this reporting period.

Exclusion

The target is to reduce gross scope 1 and 2 emissions in tonnes of CO₂e per employee by 2-5% per year. The improvement in performance in the current period compared to the base year was 55% against a published near-term target of a 50% reduction by 2030.

Emissions Summary

Colchester Institute's SECR carbon emissions for the reporting year August 2025 - July 2026 amounted to 759.7 tonnes CO₂e using the Location based reporting methodology, with 294.0 tonnes CO₂e arising from electricity. Under the Market based reporting methodology the company's emissions from electricity are 0.0 tonnes CO₂e due to electricity being from renewable sources.

Emissions Scope/Activity	Carbon Emissions (tonnes CO ₂ e)	Carbon Emissions (tonnes CO ₂ e)	PY - CY % Change
Scope 1 Direct Emissions	410.5	607.0	-32.4
Company Facilities - Gas	403.3	517.5	-22.1
Company Facilities - Fuels	7.2	8.3	-13.3
Company Facilities - Fugitive Emissions	0.0	81.1	-100.0
Scope 2 Energy Indirect Emissions	294.0	430.1	-31.7
Purchased Energy - Green Electricity - location based	294.0	430.1	-31.7
Generated Electricity - Green Electricity - location based	0.0	0.0	0.0
Scope 3 Other Indirect Emissions	55.2	65.4	-15.5
Transmission & Distribution - Electricity	30.0	41.7	-28.2
Business Travel - Cars	25.3	23.7	6.7
Intensity Metric: Per Employee	804.000	793.000	
Total Emissions	759.7	1,102.5	-31.1
Intensity Metric	0.945	1.390	
Purchased Electricity - Market Based	0.0	0.0	100.0
Total Emissions - Market-based	465.7	672.4	-30.7
Intensity Metric - Market-based	0.579	0.848	
Total SECR Energy,kWh	4,557,833.5	5,492,663.2	-17.0

Note: Figures above have been rounded, so there may be some small discrepancy in totals. The above figure represent, where available, the organisation's operational emissions, in addition to those mandated by SECR. Electricity emissions are given as 'Location-based' using the UK electricity conversion factor as published by the UK Government for the reporting period.

The update in SECR figures for the previous year is due to a change in methodology, whereby two sets of emissions factors have been applied to align the reporting period with the relevant calendar year, rather than applying a single set of emissions factors across the August-July reporting period.

SECR Emission by Scope (tonnes CO₂e)

Reporting Year



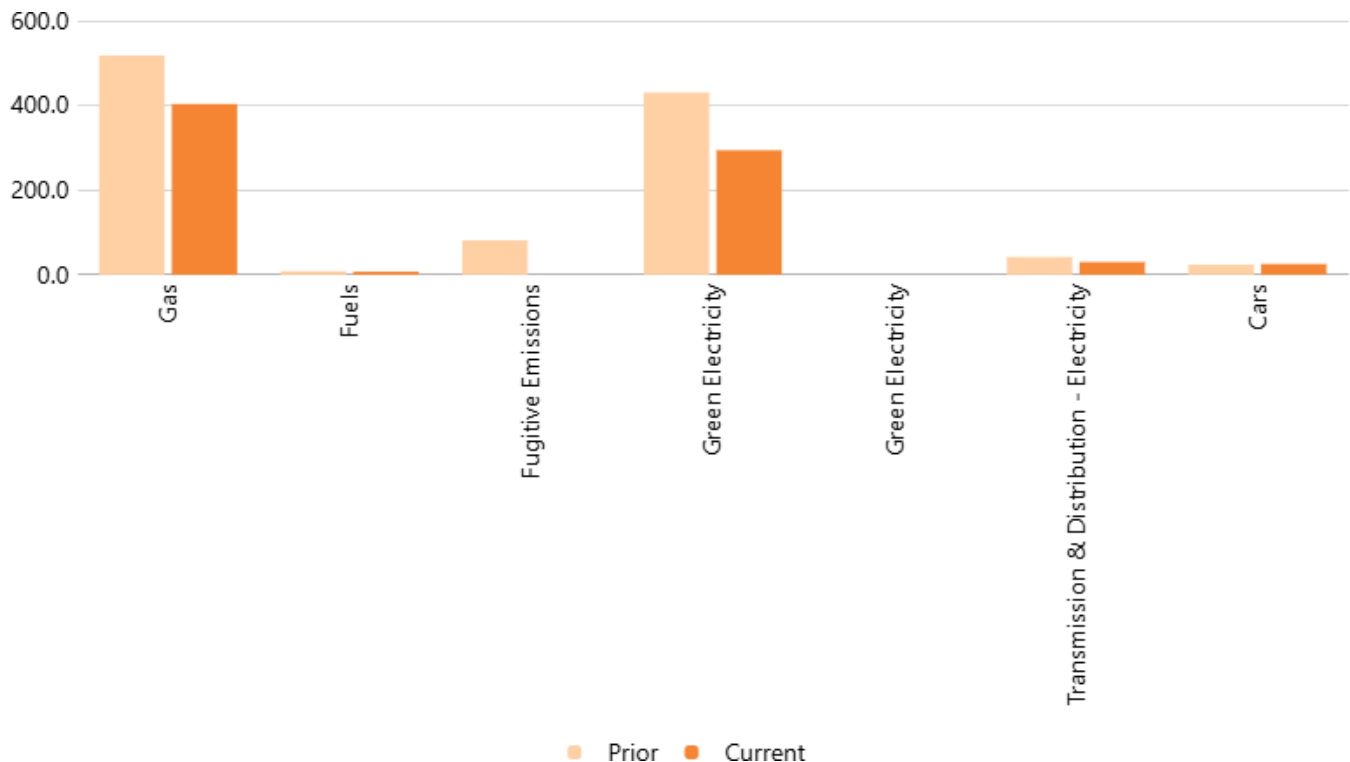
- Scope 1 - Direct Emissions
- Scope 2 - Energy Indirect Emissions
- Scope 3 - Other Indirect Emissions

Prior Year



- Scope 1 - Direct Emissions
- Scope 2 - Energy Indirect Emissions
- Scope 3 - Other Indirect Emissions

SECR Emission by Activity (tonnes CO₂e)



Reasons for Change in Emissions

Carbon emissions for the reporting year decreased by 31.1% from 1,102.5 tonnes in 2024/25 to 759.7 tonnes CO₂e in 2025/26. Scope 1 emissions fell by 31.6% when comparing the current reporting year with the previous year due to reduced natural gas use and no fugitive emissions. Scope 2 also decreased by 31.7%. Scope 3 emissions reduced by 15.5% with lower transmission and distribution losses offsetting a small increase in business travel.

Data Quality

The data used to generate this report has been collected from various sources from within the company and its stakeholders. This includes energy data provided by the utility providers, fuel cards, F-Gas register, expense claims and solar generation. Emissions have been converted to Carbon Dioxide Equivalent (CO₂e) using the published UK Government Conversion Factors for the relevant 12-month Reporting Period.

SECR Energy & Carbon Emissions (kWh & tonnes CO₂e)

Group	Unit	25-26	24-25	PY - CY % Change
Energy Consumption	kWh	4,557,833.5	5,492,663.2	-17.0
Scope 1 - Direct Emissions	tonnes CO ₂ e	410.5	607.0	-32.4
Scope 2 - Energy Indirect Emissions	tonnes CO ₂ e	0.0	0.0	0.0
Scope 2 - Energy Indirect Emissions (Location Based)	tonnes CO ₂ e	294.0	430.1	-31.7
Scope 3 - Other Indirect Emissions	tonnes CO ₂ e	55.2	65.4	-15.5
Total Emissions - Location based	tonnes CO ₂ e	759.7	1,102.5	-31.1
Relative Emissions - Location based - Per Employee	tonnes CO ₂ e	0.945	1.390	-32.040
Total Emissions - Market based	tonnes CO ₂ e	465.7	672.4	-30.7
Relative Emissions - Market based - Per Employee	tonnes CO ₂ e	0.579	0.848	-31.690

Intensity Measurement

Intensity metrics have been used to normalise the emissions and to measure year on year progress. The intensity metric in the current reporting year is 0.945tonnes CO₂e/Per Employee which is a 32.0% decrease from the previous year.



Energy Efficiency Projects

In the reporting period 1st August 2025 – 31st July 2026 Colchester Institute has made significant efforts to minimise energy consumption and improve sustainability awareness by undertaking the following projects:

- Commenced gas divestment project within CH&FS building, completing phase 1 Patisserie Training Kitchen modernisation - replacing gas cooking equipment with electric induction hobs.
- Replaced ageing freezers and refrigerators with high efficiency units in Patisserie Training Kitchen
- Commissioned phase 2 scheme to remove all gas cookers from Balcerne Training Kitchen
- Refurbishment of Balcerne Restaurant including complete removal of ageing lighting and widescreen display equipment, upgrading to high efficiency LED systems.
- Replaced 20 inefficient projectors with more efficient Samsung interactive screens
- Replaced a diesel van with a new Toyota electric panel van supporting college operations.
- Further LED lighting replacements across Colchester Campus
- Commenced large scale capital refurbishment of Block L, converting a 1960's steel framed building into a sustainable construction centre. All gas heating removed and replaced with Samsung Air Source Heat Pumps. Upgraded Solare PV panel array and incorporated new rainwater harvesting systems. Replacement of single glazing to improve heat retention.
- Commenced Electric and Hybrid Vehicle training Centre new build development, to include solar PV, electric heating and high thermal envelope
- Commissioned Braintree green infrastructure project to include new 109 panel array, coupled with 4 twin EV charge points
- Upgraded Digital Media labs removed older apple mac devices and replacing them with higher efficiency PC's
- Replacement BMS system supporting better controls in blocks W and S
- Commenced identification of scope 3 carbon emissions to inform baseline reporting

Carbon Removals and Offsets

Electricity purchased on a green contract, certified by REGOs, has been considered in this report. Additionally, on-site generation through solar PV panels installed on five of the campus buildings has also been included in this report.

Signature

Signed on behalf of **Colchester Institute**



Gary Horne MBE

Deputy Chief

Executive

01 October 2026