

ShIPLEY College



Streamlined Energy & Carbon Report 2023-24



The Streamlined Energy and Carbon Reporting Framework (SECR) was published by the Department for Business, Energy and Industrial Strategy (BEIS) that came into effect from 01st April 2019.

The city of Bradford is aiming to be a Net Zero Carbon region by 2038. As a Further Education (FE) College in the Bradford District, Shipley College recognises the role it has to play to ensure the city reaches this target. Shipley College is currently liaising with Bradford Council on the Bradford District Climate Action Plan and working with external and internal stakeholders on the Shipley College Climate Action Plan.

The College has voluntarily created the SECR report and supports the Government's desire to reduce Greenhouse Gas (GHG) emissions within the FE sector and beyond.

Progress to Date - SDG 13 Climate Action

Shipley College was the first College in the world to sign up to the SDG Accord. One of the seventeen SDGs concentrates solely on Climate Action and GHG emissions (SDG 13), which will be the focus of this report.

The College's first Carbon Management Plan (CMP) achieved a 28% reduction of carbon between 2010 and 2015. The second internal CMP, using the 2015 baseline, achieved a further 34% carbon reduction, equating to 160 tonnes of carbon saved between 2010 and 2020.

Shipley College has also won a range of sustainability awards over the last two years, which shows the colleges commitment to sustainability.

These include;

- Winners of the 2023/24 Green Gown Award for the Creating Impact category. We are proud to be the first West Yorkshire College to win an EAUC Green Gown Award.
- Finalists of the 2023/24 AOC Beacon Awards in Sustainability.
- Highly Commended Winners of the 2024/25 International Green Gown Award for the Creating Impact Category.

13 CLIMATE
ACTION



Baseline Period - Aug 2017 - July 2018
Reporting Period - Aug 2023 - July 2024

2017 - 2018 was chosen as the baseline year as the College had finished it's Carbon Management Plan in July 2015 and the College wanted to use data from a year before the Government COVID lockdown period.

Display Energy Certificate rating for Shipley College 2023/24

| Site/Building | Floor area of Site M2 | Display Energy Certificate Rating (23-24) |
|--------------------------|-----------------------|---|
| Exhibition Building | 3,417 | B |
| Salt Building | 2,047 | C |
| Mill Building | 1,243 | B |
| Jonathan Silver Building | 1,000 | B |

Emissions are defined under three different Scopes by the GHG Protocol

| Scope | Definitions |
|--|--|
| Scope 1 - Direct GHG emissions | Emissions from activities owned or controlled by the corporation that releases emissions into the atmosphere e.g. gas boiler emissions and owned vehicle fuel |
| Scope 2 - Energy indirect GHG emissions | Emissions from own consumption of purchased electricity, heat, steam and cooling. These are a consequence of the corporations activities but are from sources not controlled e.g. electricity. |
| Scope 3 - All other indirect GHG emissions | Emissions because of the corporation's actions where the source is not owned or controlled e.g. business travel in staff cars, water and procurement. |

For the purpose of this SECR report, Shipley College will be calculating it's scope 1 and scope 2 GHG emissions.

Shipley College has used the SECR tool created by the Environment Alliance for Universities and Colleges (EAUC) and Hillside Environmental Services. The SECR tool is compliant with EFSA Guidance and uses the Government's Conversion Factors for GHGs.

Greenhouse Gas (GHG) Emissions for the Reporting Year

| Energy Consumption used to calculate emissions | Base Year August 2017 - July 2018 | Reporting Year August 2023 - July 2024 |
|---|---|--|
| Gas (kWh) - Scope 1 | 728,340 | 491,965 |
| Electricity (kWh) - Scope 2 | 388,120 135,842 comes from renewable sources | 381,904 80,200 comes from renewable sources |
| Owned Fleet Fuel - Volume used (Litres) - Scope 1 | 3,152 | 1,369 |

The baseline year electricity is supplied by EDF and British Gas. The average % of renewable energy used during this year is 35%. The reporting year electricity is supplied by EDF. The average % of renewable energy used during this year is 21%. Shipley College has no influence over the amount (%) of renewable energy supplied by the utility companies.

Scope 1 emissions in metric tonnes CO2e

| | Base Year August 2017 - July 2018 | Reporting Year August 2023 - July 2024 | Emissions change (%) |
|--|--------------------------------------|---|----------------------|
| Gas Consumption | 134.13 | 89.98 | -33% |
| Owned Fleet | 8.19 | 3.47 | -58% |
| Total Scope 1 - Gas and Owned Fleet fuel (Net) | 142.32 | 93.45 | -34% |

Scope 2 emissions in metric tonnes CO2e

| | Base Year August 2017 - July 2018 | Reporting Year August 2023 - July 2024 | Emissions change (%) |
|--|---|--|-------------------------|
| Purchased Electricity (Pre offset) | 136.45 | 79.08 | -42% |
| Total Scope 2 - Purchased Electricity (Net) | 136.45 - 47.76 (35% renewable electricity) = 88.69 | 79.08 - 16.61 (21% renewable electricity) = 62.47 | -30% |

Scopes 1 and 2 emissions in metric tonnes CO2e

The renewable electricity metric tonnes CO2e value has been used for the below calculations.

| | Base Year August 2017 - July 2018 | Reporting Year August 2023 - July 2024 | Emissions change (%) |
|---|--------------------------------------|--|-------------------------|
| Total Scopes (S) 1 & 2 (Net) | 231 | 156 | -32% |

Reporting Year Greenhouse Gas (GHG) Ratios

| GHG ratios (S 1 & 2) | Quantity | S 1 & 2 Unit | TCO2e/unit |
|-----------------------|----------|--------------|------------|
| Floor Area m2 | 7,707 | 115.27 | 0.02 |
| Staff FTE | 193 | 4,603.03 | 0.81 |
| Staff Total Headcount | 307 | 2,893.76 | 0.51 |
| Student FTE | 1308 | 679.19 | 0.12 |

Climate Action - Completed Measures

1. Finalised **LED and PIRs (light sensors) installation** projects at Shipley College to reduce electricity usage - completed 2023-2024
2. New and efficient **Building Management System** installed throughout the estate - completed 2023- 2024
3. **Shipley College Travel Plan** written and promoted to staff, students and visitors and is available to view on the college website. Public transport will be encouraged to reduce GHG emissions - completed 2023-2024
4. **Staff development train tickets are now purchased through Trainhugger**. When tickets are purchased, the company will work on tree planting and restoration projects across the UK - completed 2023 - 2024
5. **Food waste and Vegware containers are now collected through a separate waste stream**. This will reduce the amount of waste sent to landfill and will be in line with the Environmental Act 2021 and the Simpler Recycling requirements - completed 2023-2024
6. Hillside Environmental services completed a **GHG emissions report** in 2023. This outlined the S1, S2 and S3 emissions of the college and highlighted key actions to take in the future, which is now part of the current Infrastructure Strategy - completed 2023 - 2024
7. Promotion of biodiversity related sustainability projects - Shipley College is part of the **Hedgehog Friendly Campus Scheme** and has completed a range of initiatives to win the **Bronze Award** - completed 2023 - 2024
8. Shipley College - **Triple glazed windows** have been installed in the Salt Building glass corridors to improve heating efficiency - completed 2023 - 2024
9. **Shipley College reusable takeaway cups** are now being sold at the catering outlets to reduce the amount of single use cups being bought. Staff, students and visitors are also able to bring their own takeaway cups and receive a discount on their hot drink purchases - completed 2023 - 2024



Climate Action - Ongoing and Future Measures

1. **Active Travel promotion** - A new 20 bike shelter was built at the Exhibition building in summer 2023. The College is continuing to promote active travel to staff, students and visitors - 2023-2026
2. **Waste audit of the Mill Building** - Sustainability and Facilities Coordinator and Premises Manager to complete a waste audit at the Mill Building, Shipley College. This is to review the capacity for an external dry-mixed recycling bin and an internal bin bank - 2024 - 2025
3. **Climate related CPD and training to be promoted to Shipley College staff.** Volunteered staff will be trained on the science behind climate change and how they can reduce their carbon footprint and influence others to reduce their carbon emissions - 2023-2026
4. Further work will be undertaken to **scope the possibility of replacing gas boilers with air source heat pumps** and **adding solar PV to certain areas of the campus** - 2023-2028
5. **Carbon Literacy activities** are now rolled out in PSHE for full time students. This includes 2-3 weeks of sustainability theory sessions and practical sessions - 2023-2026
6. The Sustainability and Facilities Coordinator will be liaising with **Bradford Council to implement the Bradford District Climate Action Plan.** Shipley College will be liaising with other stakeholders to influence what will go into the district's CAP - 2024 - 2026
7. The Sustainability and Facilities Coordinator will be working with Climate Ambassadors and members of the Shipley College Sustainability Group to work on the **Shipley College Climate Action Plan.** The four areas to be included in the college's CAP are; Decarbonisation, Biodiversity, Adaptation & Resilience and Climate Education and Green Skills/Careers - 2024 - 2026
8. The Skills Coaches and the Sustainability and Facilities Coordinator will be working together to **engage students with climate related external organisations.** Members of these organisations will work with students throughout the curriculum, in PSHE and Advanced Skills - 2024 - 2025

