

# ShIPLEY College

## Streamlined Energy and Carbon Report 2019 - 2020



Date: **July 2021**  
Executive Owner: **Vice Principal Finance and Planning**  
Lead Reviewer: **Director of Physical Resources**  
Reviewers: **Sustainability At Shipley Group**  
Author: **Physical Resources Manager**

Reference: **SECR 001**  
Year: **2020**  
Owner: **Estates**

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## **Introduction.**

This first Streamlined Energy and Carbon Report (SECR) is Shipley Colleges response to The Companies (Directors Report) and Limited Liability Partnership (Energy and Carbon Report Regulations 2018) that encompass March 2019 Environmental Reporting Guidelines. These regulations require the College to provide a streamlined energy and carbon report that is designed to increase awareness of energy costs, provide data to support the adoption of energy efficiency measures and to help organisations to reduce their impact on climate change. The report will also provide greater transparency for stakeholders.

In line with the Guidance for SECR for College's, the figures contained in this report are calculated in accordance with UK Government GHG factors for company reporting. The College calculates its carbon footprint annually and reports the data to our Board of Governors as part of our performance monitoring of the Sustainability Action Plan (SAP). The data also provides key performance indicators (KPIs) within our termly Service review (Facilities Management) and Sustainability At Shipley Group meetings. These KPIs increase awareness of energy costs across the College and inform how the adoption of energy reduction measures has improved the efficiency and reduced the College impact on climate change. The report also provides greater transparency for stakeholders. The College has voluntarily created this SECR and supports the ESFAs desire for carbon reduction within the sector.

## **Measured Consumption.**

This first iteration of Shipley College SECR will use the data for the year 1<sup>st</sup> August 2019 to 31<sup>st</sup> July 2020 and also allows prior years equivalent figures to be disclosed for comparison. The emissions are reported from all leased and controlled assets for which Shipley College is responsible. Emissions have been calculated and reported in accordance with their individual scope and classification as advised by UK Government GHG (GreenHouse Gas) conversion factors for company reporting 2020, that result predominantly from the delivery of the College's core activities of teaching and learning.

Gas consumption is recorded in kWh, with onsite meter readings supplied to the companies and then readings are verified against the invoices. Our description of "verified" means that actual meter readings have been taken on or around the billing period, the readings are checked against bills and forecast consumptions. Any differences are highlighted and investigated by the Physical Resources Assistant.

Vehicle fuel is recorded from fuel receipts that are collated by the College Finance dept. The cost of fuel and volume in litres is recorded and checked against AA Monthly Fuel Report (average price). This calculates the approximate amount of fuel, in litres, that has been used. Consumption is checked against anticipated mileage of each vehicle. The appropriate fuel GHG factor is used to calculate the CO<sub>2</sub>e.

Purchased electricity is recorded in kWh from verified invoices ( as per the gas above).

## **Progress.**

We are extremely proud to have been the first college in the world to sign up to the SDG Accord which is the University and College Sectors collective response to the [UN 17 Sustainable Development Goals](#).

The College's first Carbon Management Plan (CMP) targeted a 32% reduction from our 2010 baseline. We achieved a mean figure of 28% reduction of carbon between 2010 and 2015. Our second internal CMP, using the 2015 baseline, was to achieve a further 15% reduction of carbon emissions by 2020. The College achieved a staggering 34% reduction against the 2015 baseline. Overall, this equates to a reduction of carbon of 160 tonnes over the 10 years.

The College has adopted the EAUC Sustainability Leadership Scorecard to monitor its sustainability performance.

The Sustainability Leadership Scorecard continues to be pivotal in embedding the 17 UN Sustainable Development Goals within the College and our local community. Our target score is 93% of 100. The Sustainability Action Plan (SAP) is being implemented and the updated score, and the one that was reported to the UN SDG goals in July 2021, is 81% out of 93% which shows the continued progress that is being made.

There is a learner ambassador/governor for the 20/21 academic year to attend the Sustainability at Shipley Group (SASG) meetings. We continue to partner and promote community food growing with Veg on the Edge. We compare estates data with the Association of Colleges Yorkshire & Humber Estates Group to share good practice metrics and good practice annually.

Here is a report on what we are currently doing. [SDG @ College](#)

Here is a link to the latest [Sustainability Leadership Scorecard: Institution Overview 20/21](#)

**Performance Data.**

The environmental impact data can be normalised by dividing the reported impact i.e. tonnes CO2e (tCO2e) and by appropriate metric e.g. units produced or staff number. The resulting normalised data is called an intensity ratio.

The intensity ratio facilitates:

- Comparison over time
- Comparison across different organisation sectors and products.

For consistency across the sector, college corporations are encouraged to use tCO2e per staff member. The same ratio should be used each year for comparability.

The intensity ratio has been calculated using a staff total from payroll data attributable to 295 employees (or 200 Full Time Equivalent (FTE)) that were employed by the College on 31 July 2020.

Shipley College Annual SECR disclosure		Academic year 2019 - 2020
<b>Base Year for emissions disclosure</b>	2018 - 2019	
<b>Reporting Organisation</b>	Shipley College	
<b>Person Responsible</b>	Melanie Erangey	
<b>Academic Reporting year</b>	2019 - 2020	
<b>Type of Reporting Organisation</b>	Individual College	
<b>Methodology used</b>	GHG protocols Corporate standards & SECR guidelines for College Corporations	
<b>Emissions factors used</b>	UK Government conversion factors for Company set	

<b>Included Scope 3 emissions</b>	Water (supply and waste treatment)				
<b>Scope 2 emissions</b>	Location Based Power, Market Based power				
<b>Exclusions</b>	None				
<b>Report Year Scope 1 emissions</b>	<b>Fuel Source</b>	<b>Volume</b>	<b>Unit</b>	<b>TCO<sub>2e</sub></b>	<b>Emissions change v Base Year</b>
<b>Heating</b>	Natural Gas	51,210.00	kWh	9.41	-5%
<b>Transport</b>	Diesel	19,505.27	kWh	4.77	-50%
<b>Scope 1 Sub-Total</b>				<b>14.19</b>	<b>-27%</b>
<b>Report Year Scope 2 emissions</b>					
<b>Location Based Power</b>	Electricity	294,239.00	kWh	75.21	-28%
<b>Scope 2 Sub-Total</b>				<b>75.21</b>	
<b>Report Year Scope 3 emissions</b>					
<b>Water (supply and waste treatment)</b>	Not Disclosed	7,392.00	M <sup>3</sup>		
<b>Gross TCO<sub>2e</sub> pre offset</b>				<b>89.39</b>	
<b>Offsets</b>					
<b>Market Based power</b>	Electricity	- 32,366.29	kWh	<b>- 8.27</b>	-28%
<b>Net TCO<sub>2e</sub></b>				<b>81.12</b>	
<b>Report Year</b>					
<b>Energy Intensity Ratios (S1&amp;2)</b>	<b>Quantity</b>	<b>kWh's / Unit</b>	<b>TCO<sub>2e</sub> / Unit</b>		
Floor area	7,707m <sup>2</sup>				
Staff FTE	200	1,824.77	0.40561		-23%
Student FTE	1,154	316.25	0.07030		-2%
Number of Staff	295	1,237.13	0.27499		-19%
<b>Transport Intensity Ratios (S1&amp;2)</b>	<b>Quantity</b>	<b>kWh's / Unit</b>	<b>TCO<sub>2e</sub> / Unit</b>		
Miles	-				
Per Vehicle	4	4,876.32	1.192845		-49%
<b>Context</b>					