

# **BURTON AND SOUTH DERBYSHIRE COLLEGE**

## **Streamlined Energy and Carbon Report**

Date: March 2021

## **Introduction**

In line with the Guidance for Streamlined Energy and Carbon reporting, as set out in the College Accounts Direction, Burton and South Derbyshire College (BSDC) can report the figures as below, calculated and based on UK Government GHG factors for company reporting. (The corresponding period of report spans two calendar years; thus, the appropriate conversion factors have been used unless stated otherwise for the respective months Aug – Dec 19 and Jan – July 20).

The emissions reported correspond with the highlighted period of 1st August 2019-31st July 2020 from leased and controlled assets for which BSDC is responsible. Emissions have been calculated and reported in accordance with their individual scope and classification resulting predominantly from acting as supporting infrastructure for the delivery of the group's core activities of teaching and learning, with a small contribution which could be deemed applicable to commercial activity. In circumstances where recorded data is not available, a justifiable method of estimation has been applied based on the context of use and end user knowledge.

Calculations and output methodology has also been incorporated where BSDC is actively responsible for the consumption of the energy (and as such for the reporting of it). Transport fuel expressed as energy consumption and highlighted as kWh output refers to a calculated contribution from in house fleet vehicles, where known engine capacity, recorded mileage and estimated use has been used.

Scope 3 emissions (business travel) calculated in metric tons of CO<sub>2</sub>e have been based on an overall mileage figure taken from staff mileage claims paid within the qualifying period using the appropriate conversion figure for a large diesel engine car as directed in the 2020 guidelines only.

Future submissions will allow prior year equivalent figures to be disclosed for comparison but is not required in this, the first year of generation for the College as a reporting organisation.

## **Forward Plan**

BSDC have formed a 'Sustainability Group' who are devising a Sustainability Action Plan to reduce the College's carbon footprint and to ensure that we are doing all we can to reduce the College's environmental impact. Key areas of this plan include:

Exploration of LED lighting across the College to reduce energy consumption

Procurement strategies that reduce transport impact via locally sourced goods and produce

Automated 'Power Off' services for devices

Introduction of plant based foods to in our catering facilities replace carbon heavy meat products

Cycle to work scheme

Flexible working arrangements such as working from home

Flexible on-line learning options for our learners

<b>UK GREENHOUSE GAS EMISSIONS AND ENERGY DATA FOR THE PERIOD 1 SEPTEMBER 2019 TO 31 AUGUST 2020</b>	<b>2019/20</b>
<b>ENERGY CONSUMPTION USED TO CALCULATE EMISSIONS (kWh)</b>	<b>4,422,858</b>
<b>SCOPE 1- EMISSIONS IN METRIC TONNES CO<sub>2</sub>e</b>	
Gas consumption	<b>456.76</b>
Owned transport- Minibuses, Van, Hybrid Car	<b>3.87</b>
<b>TOTAL SCOPE 1</b>	<b>460.63</b>
<b>SCOPE 2- EMISSIONS IN METRIC TONNES CO<sub>2</sub>e</b>	
Purchased electricity	<b>436.35</b>
<b>SCOPE 3- EMISSIONS IN METRIC TONNES CO<sub>2</sub>e</b>	
Business travel in employee-owned vehicles	<b>12.49</b>
<b>TOTAL GROSS EMISSIONS IN METRIC TONNES CO<sub>2</sub>e</b>	<b>909.47</b>
<b>INTENSITY RATIO- TONNES CO<sub>2</sub>e PER STUDENT</b>	<b>0.21</b>

### **Quantification and Reporting Methodology**

We have followed the 2019 HM Government Environmental Reporting Guidelines. We have also used the GHG Reporting Protocol – Corporate Standard and have used the 2020 UK Government’s Conversion Factors for Company Reporting.

### **Intensity measurement**

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO<sub>2</sub>e per staff member, the recommended ratio for the sector.

### **Measures taken to improve energy efficiency**

We have installed smart meters across all sites and increased video conferencing technology for staff meetings, to reduce the need for travel between sites.