

**Greenhouse gas emissions and energy use data for the period 1 August 2020 to 31 July 2021/2022**

Energy consumption used to calculate emissions (kWh)	11,652,819
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**Energy consumption breakdown (kWh) (optional):**

Gas	7,686,267
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Electricity	3,966,552
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**Scope 1 emissions in metric tonnes CO<sub>2</sub>e**

Gas consumption	1,411
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**Scope 2 emissions in metric tonnes CO<sub>2</sub>e**

Electricity consumption	758
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**Scope 3 emissions in metric tonnes CO<sub>2</sub>e**

Business travel in employee owned vehicles	88
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<b>Total gross emissions in metric tonnes CO<sub>2</sub>e</b> (see breakdown below)	2,184
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**Intensity ratio**

Tonnes CO <sub>2</sub> e per member of staff (based on 547 FTE @31/03/2023)	3.99
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Blackburn College has 1 main site with multiple buildings and 1 remote location on the outskirts of Blackburn. All buildings have their own gas fuelled boilers and electricity is purchased from the grid network. The College owns 5 vehicles that are registered and insured for road use; 2 diesel-powered mini-buses, 1 diesel transit van and 2 hybrid cars. College has approximately 50 members of staff who claim business mileage.

## Quantification and Reporting Methodology

We have followed the ESFA Streamlined Energy and Carbon Reporting (SECR) 2020 Guidance. We have also used the GHG Reporting Protocol – Corporate Standard and have used the 2022 UK Government’s Conversion Factors for Company Reporting.

### Intensity measurement

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO2e per staff member, the recommended ratio for the sector.

### Measures taken to improve energy efficiency

We have upgraded the lighting to a significant proportion of the estate including external campus lights and LED signage. All heating outlets are controlled by thermostatic valves, which are subsequently controlled by a BMS system. This system controls the mechanical and electrical heating and cooling of each building. We have installed a solar array on a number of buildings, procured efficient IT and actively promote the car-share scheme.

Scope*	Definition	Unit	Source Information	Total	GHG Factor 2022	TCO2e
1	Gas consumption	kWh	Verified Invoices	7,686,267 kwh	0.18362	1,411
2	Electricity consumption	kWh	Verified Invoices	3,966,552 kwh	0.21233 Gen	758
3	College owned vehicles	Tonne.km	Monthly Fuel Receipts	1,178 litres	2.32 for average (up to 3.5 tonnes)	3
3	Business mileage	Miles	Finance travel claims paid	44,628 miles	0.27039 for medium car	12
<b>Total</b>					<b>2,184 Tonnes of CO2e</b>	