

**Blackburn College**  
**Carbon Emissions 01/08/2020 to 31/07/2021**

**Greenhouse gas emissions and energy use data for the period 1 August 2020 to 31 July 2021** **2020/21**

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Energy consumption used to calculate emissions (kWh)	9,596,345
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**Energy consumption break down (kWh) (optional):**

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Gas	5,882,679
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Electricity	3,713,666
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**Scope 1 emissions in metric tonnes CO2e**

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Gas consumption	1077
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**Scope 2 emissions in metric tonnes CO2e**

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Purchased electricity	788
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**Scope 3 emissions in metric tonnes CO2e**

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Business travel in employee owned vehicles	4
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<b>Total gross emissions in metric tonnes CO2e</b>	<b>1869</b>
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**Intensity ratio**

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Tonnes CO2e per member of staff (based on 583 FTE)	<b>3.2</b>
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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 6 vehicles that are registered and insured for road use; 2 diesel-powered mini-buses, 1 diesel van and 3 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 2021 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 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 2021	TCO <sub>2</sub> e
1	Purchased Gas	kWh	Verified Invoices	5,882,679 kwh	0.18316	1,077
1	College owned vehicles	Consumed Litre	Monthly Fuel Receipts	629 litres	2.70553 diesel	2
2	Purchased Electricity	kWh	Verified Invoices	3,713,666 kwh	0.21233 Gen	788
3	Business mileage	Miles	Finance travel claims paid	16,550 miles	0.26549 for diesel	4
				<b>Total</b>	<b>1,871 Tonnes of CO<sub>2</sub>e</b>	

