

Lakes College West Cumbria Streamlined Energy Carbon Report

Greenhouse gas emissions and energy use data	2019/2020	2020/2021	2021/22
Energy consumption used to calculate emissions (kWh)	2,819,206	2,932,686	2766981
Energy consumption break down (kWh)			
Gas	1,935,102	2,097,057	1823727
Electricity	874,298	832,694	939911
Transport fuel	9806	2935	3343
Scope 1 emissions in metric tonnes CO2e			
Gas consumption	356	383.76	328.27
Owned transport	2.2	0.67	0.83
Total scope 1	358.2	384.4	329.1
Scope 2 emissions in metric tonnes CO2e			
Purchased electricity	210.4	176.53	181.4
Scope 3 emissions in metric tonnes CO2e			
Business travel in employee owned vehicles *	17.85	4.9	19.21
Total gross emissions in metric tonnes CO2e	586.45	565.83	529.71
Intensity ratio			
Tonnes CO2e per member of staff (staff/TCO2e)	228/ 2.57	227/2.49	240/2.2

* Business Travel in employee-owned vehicles is based on average car.

Lakes College has 4 buildings; Lakes College, British Energy Coast Construction Skills Centre, National College for Nuclear and The Civils Engineering Centre. The Civils Engineering Centre opened in November 2021 and so is not included in the 2019/20 and 2020/21 figures. The Civils engineering Centre is heated by a ground source heat pump and therefore does not use gas. The other three buildings covered above all have their own gas fuelled boilers and electricity purchased from the grid network. The College owns 2 vehicles, 1 mini bus and 1 van, both powered by regular diesel.

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 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

In 2021 we began work towards the ISO 14001 (which we achieved in February 2022). A Sustainability group was formed to drive the ISO 14001 agenda.

Mixed recycling bins continue to be in place across college with recycling promoted across all college buildings.

In 2020 all communal areas within the college had LED lighting in place and work continues on a rolling basis to replace lighting in offices with energy efficient LED lighting when the current bulbs fail.

A heat decarbonisation feasibility study to identify technologies that the college could implement to improve our energy efficiency further began in 2021 with results provided early 2022.