

**Greenhouse gas emissions and energy use data for the period 1 August 2023 to 31 July 2024 – UK**

Energy consumption used to calculate emissions (kWh)

	2019/20	2020/21	2021/22	2022/23	2023/24	
<b>Energy Consumption breakdown (kWh)</b>						
Gas (KWh)	3891406	4321688	3961376	3896233	3256151	
Electricity (KWh)	2818695	2780307	2885724	3110185	3081927	* ESPO Pure Green (2020)
Transport Fuel (Km)	74647	31310	57886	47477	36485	
Transport (Staff Vehicles) (Km)	50102	49744	57711	69832	129355	
<b>Scope 1 emissions in metric tonnes CO2</b>						
Gas Consumption	709.00	791.56	721	701.32	586.11	
Owned transport	14.05	13.95	10.6	19.59	36.29	
Total scope 1	<b>77.08</b>	<b>805.51</b>	<b>731.60</b>	<b>720.91</b>	<b>622.39</b>	
<b>Scope 2 emissions in metric tonnes CO2</b>						
Purchased electricity	657.15	0	0	0	0	*See below
<b>Scope 3 emissions in metric tonnes CO2</b>						
Business travel in employee owned vehicles	14.11	9.11	10.57	12.79	23.69	
<b>Total gross emissions in metric tonnes CO2</b>	<b>743.7</b>	<b>814.63</b>	<b>742.17</b>	<b>733.70</b>	<b>646.09</b>	
<b>Intensity Ratio</b>						
Tonnes CO2 per member of staff	<b>1.85</b>	<b>1.09</b>	<b>0.94</b>	<b>0.92</b>	<b>0.78</b>	

\*In 2020, West Nottinghamshire College switched to a 100% Green Electricity supply which is eligible to report zero emissions under the GHG protocol corporate standards (Scope 2)

**Quantification and Reporting Methodology**

We have followed the 2021 HM Government Environmental Reporting Guidelines. We have also used the GHG Reporting Protocol – Corporate Standard and have used the 2023 UK Government’s Conversion Factors.

**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**

Energy efficient LED lighting and increased insulation has been installed on several sites to reduce emissions. There has been a move to electric heating while refitting buildings which has seen positive results.