



Streamlined energy and carbon reporting 2022/23

UK Greenhouse gas emissions and energy use data for the period 1 September 2022 to 31 August 2023	Current Reporting Year 2022/23	Comparison reporting year 2021/22
Energy consumption used to calculate emissions (kWh)	9,323,302	8,864,322
Energy consumption break down (kWh) (optional): <ul style="list-style-type: none"> • gas • electricity • transport fuel 		
Scope 1 emissions in metric tonnes CO₂e		
Gas consumption	1,195.02	1,128.95
Owned transport – mini-buses	2.92	1.46
Total Scope 1	1,197.94	1,130.41
Scope 2 emissions in metric tonnes CO₂e		
Purchased electricity	571.96	515.02
Scope 3 emissions in metric tonnes CO₂e		
Business travel in employee-owned vehicles	2.92	2.59
Total gross emissions in metric tonnes CO ₂ e	1,772.82	1,648.02
Intensity ratio Tonnes CO ₂ e per pupil	0.263	0.271

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 for Company Reporting.

Intensity measurement

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

Measures taken to improve energy efficiency

The Laurus Trust is keen to ensure that whatever refurbishment work we undertake has some form of energy efficiency benefits and contributes in some way to achieving the UK's commitment to reducing its greenhouse gas emissions by at least 80% by 2050, relative to 1990 levels.

We have fortunately been able through Capital funding grants, to build four new schools, all of which have energy efficiencies with the use of solar wind catchers, LED lighting, lighting sensor controls, energy efficient heating and ventilation systems. We are currently in the process of building another school which is due to open in September 2024 with even more improved energy efficiencies and another school which will have all of the above, but with lots more solar panels and a green roof to open January 2025.

All our older schools have benefited from replacement double glazed windows, roof refurbishments and replacements with increased insulation, breathable buildings technology and solar panel installations. As part of the Trusts building development and refurbishment plan, we have within this last year 2022 – 2023 continued to upgrade lighting within our older school buildings to LED with sensor controls wherever refurbishment has taken place and sought ways to improving natural ventilation by increasing the number of opening roof lights and windows to these spaces. We have replaced external cladding for insulated panels and replaced roofs to increase insulation properties to reduce energy consumption.

We have recently refurbished one of our 6th forms and this now operates without using any gas supplies and instead uses modern energy efficient heating systems and other energy efficient products all operating via a BMS System.

All of our schools now operate heating and cooling services via a BMS system which enables more accurate control, more so in the new schools, of the amount of energy being used and when.

The Trust has a totally electric, therefore, zero emissions vehicle for staff to use to travel between its school sites

We are constantly looking at opportunities to obtain funding via grants and bids to enable us to look to reduce and if possible, de carbonise our older schools heating systems and replace with modern green technologies.

The Trust has ensured that at all our schools they install Electric vehicle charge points.