

Streamlined Energy and Carbon Reporting 2023-24

At 31st August 2024, the Multi Academy Trust was responsible for 22 academies (an increase of 3 academies) and a central team and they accounted for all of the direct and energy indirect emissions related to the activities of the Diocese of Coventry Multi Academy Trust.

The academies use a combination of electricity and gas (one academy uses oil instead of gas) for heating and lighting.

The academy trust is also responsible for transport in the form of fuel used in personal cars for business use where the trust reimburse staff for business mileage claims. Two academies also use academy controlled minibuses.

The reporting year is September to August.

Energy Use and Greenhouse gas (GHG) emissions

Scope *	Energy source	2022-23			2023-24		
		Energy Use kWh	Emissions kgCO ₂ e	Emissions Intensity Ratio (kgCO ₂ e per pupil)	Energy Use kWh	Emissions kgCO ₂ e	Emissions Intensity Ratio (kgCO ₂ e per pupil)
2	Purchased electricity	1,767,606	341,820	72.88	1,637,327	316,626	59.34
1	Gas consumption	3,990,737	728,469	155.32	4,181,154	763,228	143.03
	Heating Oil consumption	N/A	19,005	4.05	N/A	21,683	4.06
	Owned transport (Minibuses)	N/A	2,223	0.47	N/A	2,545	0.47
3	Business travel in employee owned vehicles	N/A	6,301	1.34	N/A	6,120	1.15

*Scope 1 – direct energy and processes. Scope 2 – indirect impact from electricity. Scope 3 – other indirect emissions.

Methodologies

- The annual consumption of electricity and gas have been taken from the utility bills in kWh.
- The annual consumption of heating oil has been taken from the bills in litres.
- Diesel usage for minibuses has been taken from a combination of recorded mileage and fuel purchased using an estimate of 7.9 miles per litre.
- Petrol and diesel usage for personal cars for business use has been calculated using mileage claims to calculate the mileage, and the following assumptions (based on figures from the RAC Foundation <https://www.racfoundation.org/motoring-faqs/environment#a9>):
 - calculated assuming a 60/40 split of petrol/diesel use

- 5.6 litres per 100km for petrol vehicles
- 4.9 litres per 100km for diesel vehicles
- For all sources the carbon footprint has then been calculated using the Carbon Trust Carbon Footprint Calculator <https://www.carbontrust.com/resources/sme-carbon-footprint-calculator>
- Emissions intensity ratio of kgCO₂e per pupil for 2022-23 has been calculated using pupil numbers of 4690 from July 2023.
- Emissions intensity ratio of kgCO₂e per pupil for 2023-24 has been calculated using pupil numbers of 5336 from July 2024.

Energy Efficiency Actions

LED lighting has been installed in the 3 new schools in the first term after they joined the Trust.

Energy efficient heating has been fitted where any replacement heating has been required as part of minor projects. Part of the heating system at our secondary school has been reconfigured in such a way that the heating no longer has to be on to obtain hot water, which is expected to significantly reduce energy usage.

Smaller projects have included replacement windows and doors in one school which will lead to a reduction in heat losses in that area of the school.

We are working with Let's Go Zero, the national campaign uniting teachers, pupils, parents and their schools as they all work together to be zero carbon by 2030. After Let's Go Zero raised a concern around the timings on the heating system in one of our academies, we have updated settings on heating controls for almost all of our 22 schools and the impact is expected to be huge for our energy savings.

We are part of the Diocese of Coventry Net Zero Steering Group.