

Streamlined Energy and Carbon Reporting 2022-23

At 31st August 2023, the Multi Academy Trust was responsible for 19 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

Energy source	Usage	Scope*	2021-22		2022-23	
			Emissions kgCO ₂ e	Emissions intensity Ratio (kgCO ₂ e per pupil)	Emissions kgCO ₂ e	Emissions intensity Ratio (kgCO ₂ e per pupil)
Electricity	Lighting and power	2	333893	70.85	341820	72.88
Gas	Heating	1	818777	173.73	728469	155.32
Heating Oil	Heating	1	12011	2.55	19005	4.05
Diesel	Minibuses	1	2212	0.47	2223	0.47
Petrol / Diesel	Personal cars for business use	1	2928	0.62	6301	1.34

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

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 2021-22 has been calculated using pupil numbers of 4713 from September 2022.

- Emissions intensity ratio of kgCO₂e per pupil for 2022-23 has been calculated using pupil numbers of 4690 from July 2023.
- Note that in 2021-22 gas and electricity usage figures are likely to have been impacted due to changes in heating regimes as a result of COVID-19; business use mileage was still settling down as we got used to post COVID-19 conditions and minibus travel was increasing towards pre COVID-19 levels.

Energy Efficiency Actions

LED lighting has been installed across the whole academy Trust estate.

Energy efficient heating has been fitted where any replacement heating has been required as part of minor projects.

Roof works incorporating energy efficient insulation and modern energy saving technologies have been completed at:

- St Michael's CofE Academy
- Southam St James CofE Academy

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