

## **Streamlined Energy and Carbon Reporting 2021-22**

The Multi Academy Trust is responsible for 19 academies and a central team and they account 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.

Our 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	2020-21		2021-22	
			Emissions kgCO <sub>2</sub> e	Emissions intensity Ratio (kgCO <sub>2</sub> e per pupil)	Emissions kgCO <sub>2</sub> e	Emissions intensity Ratio (kgCO <sub>2</sub> e per pupil)
Electricity	Lighting etc	2 (indirect impact from electricity)	339135	69.48	333893	70.85
Gas	Heating	1 (direct energy and processes)	723911	148.31	818777	173.73
Heating Oil	Heating	1 (direct energy and processes)	19607	4.02	12011	2.55
Diesel	Minibuses	1 (direct energy and processes)	822	0.17	2212	0.47
Petrol/Diesel	Personal cars for business use	1 (direct energy and processes)	1946	0.40	2928	0.62

### **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-fags/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 kgCO<sub>2</sub>e per pupil for 2020-21 has been calculated using pupil numbers of 4881 from May 2021.
- Emissions intensity ratio of kgCO<sub>2</sub>e per pupil for 2021-22 has been calculated using pupil numbers of 4713 from September 2022.

Please note:

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 is still settling down as we get used to post COVID-19 conditions.

Post COVID-19, minibus travel is increasing towards pre COVID-19 levels.

### Energy Efficiency Actions

LED lighting and energy efficient heating have been fitted where any replacement lighting or heating has been required as part of minor projects.

We have carried out roof works incorporating energy efficient insulation and modern energy saving technologies at:

- Stretton CoFE Academy (partial roof replacement)
- St Nicolas CoFE Academy (full flat roof replacement)

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