

Streamlined Energy and Carbon Reporting 2019-20

The Multi Academy Trust is responsible for 18 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 (DMAT).

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. Three academies also use academy controlled minibuses.

The reporting year is September to August.

Energy Use and Greenhouse gas (GHG) emissions

Energy source	Usage	Scope	Emissions kgCO₂e	Emissions intensity Ratio (kgCO₂e per pupil)
Electricity	Lighting etc	2 (indirect impact from electricity)	389382	88.96
Gas	Heating	1 (direct energy and processes)	517419	118.21
Heating Oil	Heating	1 (direct energy and processes)	25176	5.75
Diesel	Minibuses	1 (direct energy and processes)	1106	0.25
Petrol/Diesel	Personal cars for business use	1 (direct energy and processes)	8587	1.96

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 recorded mileage.
- 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 has been calculated using pupil numbers of 4377 from July 2020.

Please note:

Gas and electricity usage figures are likely to have been impacted due to partial opening of schools during the lockdown for COVID-19, as well as differences in heating regimes due to the requirements for increased ventilation from open doors etc.

Business use mileage has been considerably reduced this year due to COVID-19 restrictions because of staff working from home where possible from the last week of March up to and beyond the end of the reporting period.

Energy Efficiency Actions

Lighting tubes in need of repair or replacement have been replaced with LED and LED lighting has been used within new building projects. As a result, during 2019-20 we have fitted LED lighting in:

- Refurbished classrooms at Salford Priors, Queens CofE Academy and St Laurences CofE Primary School
- Refurbished toilets at Studley St Mary's CofE Academy
- Front entrance works at Stretton CofE Academy
- Exterior lighting at Leigh CofE Academy

We have Commissioned boiler surveys and as a result have complete boiler replacement works incorporating modern energy saving technologies in:

- Harris CofE Academy humanities building

We have carried out roof works incorporating energy efficient insulation at:

- Southam St James CofE Academy (partial roof works)
- St Bartholomew's CofE Academy (section 1 of roof)