

Streamlined Energy and Carbon Reporting 2020-21

The Multi Academy Trust is responsible for 19 academies (one academy more than last year) 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. 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	2019-20		2020-21	
			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 etc	2 (indirect impact from electricity)	389382	88.96	339135	69.48
Gas	Heating	1 (direct energy and processes)	517419	118.21	723911	148.31
Heating Oil	Heating	1 (direct energy and processes)	25176	5.75	19607	4.02
Diesel	Minibuses	1 (direct energy and processes)	1106	0.25	822	0.17
Petrol/Diesel	Personal cars for business use	1 (direct energy and processes)	8587	1.96	1946	0.40

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 2019-20 has been calculated using pupil numbers of 4377 from July 2020.
- Emissions intensity ratio of kgCO₂e per pupil for 2020-21 has been calculated using pupil numbers of 4881 from May 2021.

Please note:

Gas and electricity usage figures are likely to have been impacted due to partial opening of schools during lockdowns 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 during the pandemic for most of the reporting period.

Energy Efficiency Actions

LED lighting has been fitted throughout in the following academies:

- Harris CofE Academy
- St Nicolas CofE Academy

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

- St Bartholomew's CofE Academy (section 2 of roof)
- St Oswald's CoFE Academy
- St Laurences CofE Primary School
- Harris CofE Academy (Humanities block and old gym)

We have Heat Decarbonisation plans in place for the following academies:

- Harris CofE Academy
- St Nicolas CofE Academy

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