

## CARBON FOOTPRINT JUNE 2019 – MAY 2020

The College calculated its Carbon Footprint using the formulae published on the Education and Skills Funding Agency website. The College applied the known volume from its gas and electricity consumption for the period June 2019 to May 2020. It also used information on fuel consumption across its vehicle fleet for the same period.

The calculations converted the volume usage for each energy source into tonnes of carbon dioxide and the findings are reported on the table below.

Energy Source	Consumption	Emissions calculation
Gas – total kWh (kilowatt-hours) used for the year taken from gas bills for each meter on site	3,344,831 kWh (gross CV (calorific value))	3344831 kWh * 0.18387 (2020 fuels, natural gas conversion factor gross CV to kg Co2e)= 6156014 kgCO2e = <b>615 tCO2e</b>
Electricity – total kWh used for the year, taken from the electricity bills for each metre on site	985,241.7 kWh	985241 kWh * 0.23314 (2020 electricity conversion factor to kgCO2e) = 229699 kgCO2e = <b>229.7 tCO2e</b>
Transport Fleet Mini-bus (Diesel) 1968.45 miles in the year	1968.45 miles * 1.19466 (minibuses and vans conversion)= 2351.63 kWh	1968.45 miles = 2351.63 * 0.18900 (Minibuses and vans vehicles conversion)= 444.45 kgCO2e = <b>0.45 tCO2e</b>
Transport – total mileage for petrol.	332.82 miles * 1.16319 (kWh conversion factor to kWh)= 387.13 kWh	332.82 miles = 387.13 kWh * 0.28052 (average car conversion factor to kgCO2e)= 108.59 kgCO2e = <b>0.1 tCO2e</b>
<b>Total</b>		<b>845.25 tCO2e Anually</b>
Intensity ratio	Emissions data (tCO2e) compared with an appropriate business activity (pupil numbers as per Autumn census) are 3,000.	845.25 tCO2e/3,000 pupils = <b>0.28 tCO2e per pupil</b>

As part of its Sustainability Strategy, the College is working towards a year on year reduction in carbon emissions.