

Energy and Carbon Reporting - 2019/2020

The Corporation has 3 sites, all with their own boilers which are gas fuelled and electricity is purchased. The data provided in this report relates to the Seevic Campus (based in Benfleet) and the Palmers Campus (based in Grays). The third campus based on Canvey Island has no data to report at this time as this site only became operational in 2020-2021.

The Corporation owns 4 diesel-powered mini-buses and has 500+ members of staff who could claim business mileage.

This methodology follows the GHG Reporting Protocol and uses the Government conversion factors for reporting. The conversion factors are updated annually and are generally released each year in June. The Corporation has used 2020 conversion factors for the 2019 to 2020 financial year.

Greenhouse gas emissions and energy use data for the period 1 August 2019 to 31 July 2020	2019-2020
Energy consumption used to calculate emissions (kWh)	4,291,338
Energy consumption break down (kWh):	
Gas	2,218,107
Electricity	1,992,426
Transport fuel	9,971
Scope 1 emissions in metric tonnes CO2e	
Gas consumption	407.84
Owned transport	2.54
Total scope 1	410.38
Scope 2 emissions in metric tonnes CO2e	
Purchased electricity	464.51
Scope 3 emissions in metric tonnes CO2e	
Business travel in employee owned vehicles	17.08
Total gross emissions in metric tonnes CO2e	891.97
Intensity ratio	
Tonnes CO2e per member of staff	1.61
Tonnes CO2e per student	0.26

Quantification and Reporting Methodology

We have followed the 2019 HM Government Environmental Reporting Guidelines. We have also used the GHG Reporting Protocol – Corporate Standard and have used the 2020 UK Government’s Conversion Factors for Company Reporting.

Intensity measurement

The chosen intensity measurement ratio is total gross emissions in metric tonnes CO2e per staff member, the recommended ratio for the sector.

Measures taken to improve energy efficiency

We have installed half hourly reading smart meters across all sites and increased video conferencing technology for staff meetings, to reduce the need for travel between sites. In addition, our blended learning approach has reduced student travel to and from each campus.

Thermal efficiency has been improved with new cladding and double glazing at the Seevic Campus.