

Streamlined Energy & Carbon Reporting for Slough & East Berkshire Multi Academy Trust

Prepared for the Trustees



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Slough & East Berkshire Multi Academy Trust

For inclusion in the Trustees' report for the year ended 31 August 2021

Streamlined Energy and Carbon Reporting (SECR)

UK energy use and associated greenhouse gas emissions

Annual energy usage and associated annual greenhouse gas (“GHG”) emissions are reported pursuant to the Companies (Directors’ Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018 (“the 2018 Regulations”) that came into force 1 April 2019.

Organisational boundary

In accordance with the 2018 Regulations, the energy use and associated greenhouse gas emissions are for those assets owned or operated within the UK only. This includes all 5 schools controlled during the reporting period along with minibuses and personal vehicles used for business mileage (“grey fleet”).

Reporting period

The annual reporting period is 1 September to 31 August each year and the energy and carbon emissions are aligned to this period.

Quantification and reporting methodology

The 2019 UK Government Environmental Reporting Guidelines and the GHG Protocol Corporate Accounting and Reporting Standard (revised edition) were followed. The 2021 UK Government GHG Conversion Factors for Company Reporting were used in emission calculations. The report has been reviewed independently by Briar Consulting Engineers Limited.

The electricity and gas consumption were compiled from invoice records. Gaps in the data were estimated using either the pro-rata or direct comparison method to ensure annual consumption falls within a reasonable range. No mileage was reported for the minibus or business travel in employee-owned vehicles. On site renewable solar photovoltaic electricity is generated but exported energy is not measured and has not been excluded. Generally gross calorific values were used except for grey fleet mileage energy calculations as per Government GHG Conversion Factors.

The associated emissions are divided into mandatory and voluntary emissions according to the 2018 Regulations, then further divided into the direct combustion of fuels and the operation of facilities (scope 1), indirect emissions from purchased electricity (scope 2) and further indirect emissions that occur as a consequence of Trust activities (scope 3).

Breakdown of energy consumption used to calculate emissions (kWh):

Energy type	2019/20	2020/21
Mandatory requirements:		
Gas	1,926,161	2,192,582
Purchased electricity from the grid	929,908	1,155,810
Transport fuel	31,102	0
Total energy (mandatory)	2,887,171	3,348,392
Voluntary requirements:		
Generated electricity from on-site renewable sources	187,877	167,317
Total energy (voluntary)	187,877	167,317
Total energy (mandatory & voluntary)	3,075,048	3,515,709

Breakdown of emissions associated with the reported energy use (tCO₂e):

Emission source	2019/20	2020/21
Mandatory requirements:		
<u>Scope 1</u>		
Natural gas	354.2	401.6
Transport - Company owned vehicles (mini-buses)	5.7	0.0
<u>Scope 2</u>		
Purchased electricity (location-based)	216.8	245.4
<u>Scope 3</u>		
Transport – Business travel in employee-owned vehicles	1.9	0.0
Total gross emissions (mandatory)	578.6	647.0
<u>Intensity ratios (mandatory emissions only)</u>		
Tonnes of CO ₂ e per pupil	0.193	0.207
Tonnes of CO ₂ e per square meter floor area	0.025	0.028
Voluntary requirements:		
<u>Scope 1</u>		
Generated electricity from on-site renewable sources	0.0	0.0
Total gross emissions (voluntary)	0.0	0.0
Total gross emissions (mandatory & voluntary)	578.6	647.0

Intensity ratio

Two intensity ratios are reported showing emissions (tCO₂e) per pupil and per square meter floor area. Emissions per pupil is the recommended ratio for the sector for consistency and comparability and pupil numbers are based on the Autumn census of the respective year. Emissions per square meter floor area is reported to reflect the energy efficiency of the buildings, which are the source of the majority of emissions.

Energy efficiency action during current financial year

This year has seen the completion of energy efficient LED lighting installations across all schools in the Trust, with Lynch Hill School Primary Academy and Eton Porny CE First School the final schools of the project to be completed.

Furthermore, improvements to the thermal performance of Lynch Hill School Primary Academy have been made with the replacement of the old windows throughout the school, resulting in improved insulation and air tightness.