

Streamlined Energy & Carbon Reporting

Slough & East Berkshire Church of England MAT

Prepared for the Trustees



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Slough & East Berkshire Church of England MAT
For inclusion in the Trustees' report for the year ended 31 August 2020

Streamlined Energy and Carbon Reporting (SECR)

UK energy use and associated greenhouse gas emissions

The Slough & East Berkshire C of E MAT is pleased to report its current UK based annual energy usage and associated annual greenhouse gas emissions 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 within the UK only for all assets that come under an operational control boundary. 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 2020 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 data were all compiled from invoice records. Mileage claims were used to calculate energy use and emissions associated with grey fleet; and total cost figures were used for scope 1 transport using an average £/litre throughout the reporting year. On site renewable solar photovoltaic electricity figures are reported as the total generated without excluding any exported to the grid. 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 combustion of fuels and the operation of facilities (scope 1), purchased electricity (scope 2) and in-direct emissions that occur as a consequence of company activities (scope 3).

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

Energy type	2019/20
Mandatory energy:	
Gas	1,926,161
Purchased electricity from the grid	929,908
Transport fuel	31,102
Total mandatory energy	2,887,171
Voluntary energy:	
Consumed electricity from on-site renewable sources	187,877
Total voluntary energy	187,877
Total mandatory & voluntary energy	3,075,048

Intensity ratio

The primary intensity ratio is total gross emissions in metric tonnes CO₂e (mandatory emissions) per pupil, which is the recommended ratio for the sector for consistency and comparability. Pupil numbers are based on the Autumn 2019 Census.

A secondary intensity ratio based on floor area (Gross Internal Area) is also provided to reflect the energy efficiency of the buildings, which are the source of the majority of emissions.

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

Emission source	2019/20
Mandatory emissions:	
<u>Scope 1</u>	
Natural gas	354.2
Transport - Company owned vehicles (mini-buses)	5.7
<u>Scope 2</u>	
Purchased electricity (location-based)	216.8
<u>Scope 3</u>	
Transport – Business travel in employee owned vehicles	1.9
Total gross mandatory emissions	578.6
<u>Intensity ratios (mandatory emissions only)</u>	
Tonnes of CO ₂ e per pupil	0.19
Tonnes of CO ₂ e per square meter floor area	0.025

Energy efficiency action during current financial year

It is worth noting that energy consumption is expected to be below typical this year due to the reduced occupancy across all sites following COVID-19 restrictions from 23rd March 2020. Despite this temporary reduction in energy use, the Trust is committed to reducing longer term emissions and this year has seen the implementation of energy efficiency measures. It was identified that the heating system in the Art Block of Slough & Eton Business & Enterprise Academy was not efficient so the Trust have invested in the installation of a new boiler in this area to improve the energy consumption.

Looking forward to 20/21, the Trust will be installing LED lighting at both Eton Porny and the Lynch Hill School Primary Academy.