

5. GHG Assertion

5.1 Total Emissions

The total GHG emissions for Ying Wa Primary School based on the aforesaid physical and operational boundaries have been calculated and summarised in **Table 5.1**. (details refer to **Appendix B**).

Table 5.1 Total GHG emissions

Sources of emissions	Total (Tonnes of CO ₂ -e)	% Contributions
Scope 1 direct emissions		
Stationary combustion sources	NA	NA
Mobile combustion sources	NA	NA
Fugitive emissions	NA	NA
Scope 1 emissions total	NA	NA
Scope 2 energy indirect emissions		
Electricity purchased	692.73	94.97%
Towngas purchased	1.14	0.16%
Scope 2 emissions total	693.87	95.13%
Scope 3 other indirect emissions		
Disposal of paper waste	34.58	4.74%
Electricity for processing fresh water	0.65	0.09%
Electricity for processing sewage	0.31	0.04%
Travelling by flight	0	0%
Food consumption	0	0%
Scope 3 emissions total	35.54	4.87%
Total emissions (A)	729.41	100%

Table 5.2 Total GHG removals breakdown

Sources of removals	Total (Tonnes of CO ₂ -e)
Scope 1 direct removals^{Note1}	
Planting of additional trees	0.25
Scope 1 removals total (B)	0.25
Scope 3 other indirect removals^{Note2}	
Paper recycled	0
Renewable energy	0
Scope 3 removals total (C)	0

Net emissions (A)-(B)-(C): 729.15 tonnes of CO₂-e

Note 1: Greenhouse gas removals from planted trees of at least 5 meters in height in Scope 1

Note 2: Greenhouse gas removals from recycled paper and/or used renewable energy in Scope 3

During the baseline period, absolute carbon emissions of Ying Wa Primary School was evaluated as 729.15 tonnes CO₂-e. Electricity consumption is by far the biggest contributor to carbon emissions of school making up about 95.13%. The carbon emission contributions from Scopes 1, 2 and 3 are illustrated in Figure 5.1. Distribution of carbon emissions by various sources are illustrated in Figure 5.2.

Figure 5.1 Distribution of carbon emissions by scopes (2018/19)

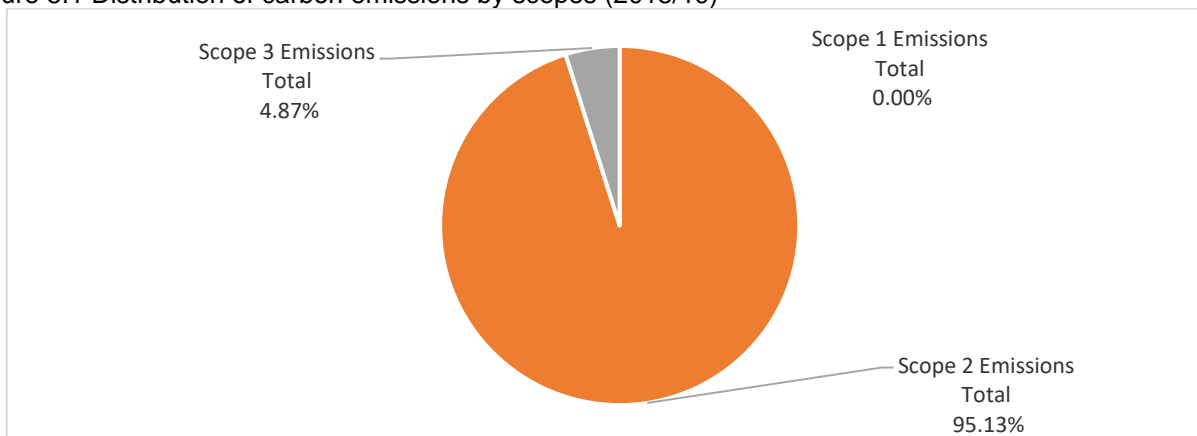


Figure 5.2 Distribution of carbon emissions by sources (2018/19)

