

The background is a vibrant yellow. It is decorated with several abstract geometric shapes in shades of blue, teal, and white. These include circles, semi-circles, and rounded rectangular shapes, some of which are partially cut off by the edges of the page. The shapes are arranged in a dynamic, non-repeating pattern.

Appendix A8.1 Embodied Carbon

Contents

Appendix A8.1: Construction Phase Embodied Carbon 1

Appendix A8.1: Construction Phase Embodied Carbon

This appendix provides the key parameters and GHG outputs associated with embodied carbon emissions during the construction phase are shown in Table 8.1. The most significant contributor to the embodied carbon emissions is GGBS which accounts for 52% of total embodied carbon emissions followed by asphalt at 36% as listed in Table 0.1.

Table 8.1: Embodied Carbon Emissions During Construction of the Proposed Scheme

Embodied Carbon Material	Tonnes CO _{2eq} / Total	% Contribution
Asphalt	1,246	36%
Aggregates	113	3%
GGBS	1,782	52%
Concrete	194	6%
Other	14	0%
Transport of Materials	97	3%
Total	3,446	100%

The key parameters and associated GHG outputs associated with embodied carbon emissions during the maintenance phase are shown in Table 8.2. The most significant contributor to the embodied carbon emissions is asphalt which accounts for 99% of total embodied carbon emissions.

Table 8.2: Embodied Carbon Emissions During Maintenance of the Proposed Scheme

Embodied Carbon Material	Tonnes CO _{2eq} / Total	% Contribution
Asphalt	1,029	99%
Bituminous Surface	11.3	1%
Total	1,040	100%