

Memo: Sellafield Limited

Date: 2026-01-05

1. Executive Summary

A forensic screen of open public procurement data identified the contract 'Projects and Asset Care Execution (PACE)' as a Critical Carbon Priority.

Based on the contract value (£3,600,000,000.00) and detected material profile (General Civil Blend (Synthetic)), we estimate the embodied carbon risk to be approximately 2,480,000 tonnes CO2e.

2. Forensic Calculation Method

Methodology: High-fidelity screening using industry composite rates (SPONS 2024) and emission factors (ICE V4.1 / DEFRA 2025).

- A. Contract Value: £3,600,000,000.00
- B. Composite Rate: £45.00 per tonne (Installed)
- C. Est. Quantity: 80,000,000 tonnes (General Civil Blend (Synthetic))
- D. Emission Factor: 31.00 kgCO2e/tonne (PROXY_Synthetic_Mix_40Earth_30Agg_30Struct)

CALCULATION: $(80,000,000 \text{ tonnes} * 31.00 \text{ kg/t}) / 1000 = 2,480,000.00 \text{ tonnes CO2e}$

3. Mitigation Opportunities

Standard interventions for this material profile:

- Request Environmental Product Declarations (EPDs) from Tier 1 suppliers.

DISCLAIMER: This report is a screening estimate based on open data (Contracts Finder). It applies heuristic modeling to estimate quantities and does not replace a Bill of Quantities. Intended for internal prioritization use only.