

Designer Embodied Carbon (EC) Calculation - Civil & Electrical

Build Table Most Contributing Materials 1%+, Embodied Carbon A1-5

Project Name: Alderley to Handforth Fluid Filled Cable Replacement
Project Scope: 33kV Single Circuit 500mm2 XLPE, Route Length 6528m.

Calculation Date: 18/09/2024
Project Code: 55002053
Project Completed in Financial Year: FY24
Estimated Cost of Cable Works: (To Estimate A5) £1,161,867.00

Project Embodied Carbon Breakdown and Totals (tCO2e)
Table with 2 columns: Category, Value. Totals: Total A1-5w: 502.79, A5a: 8.13, Total A1-5 (tCO2e): 510.92

Roadway table listing roads from Alderley to Handforth, including details on existing cables, unmade ground, and road type classifications.

Road & Cable Calculations Table for Type 1&2. Columns include Cable Type & Excavation, CableDuct Number, Units values to Input in conversion to tonnes cell, Conversion to tonnes, Quantity (t), ECF kg(CO2e/kg), Embodied Carbon (tCO2e), Total EC (tCO2e), and Notes / Comments.

Road & Cable Calculations Table for Type 3&4. Columns include Cable Type & Excavation, CableDuct Number, Units values to Input in conversion to tonnes cell, Conversion to tonnes, Quantity (t), ECF kg(CO2e/kg), Embodied Carbon (tCO2e), Total EC (tCO2e), and Notes / Comments.

Important note: All materials calculated in above sheet, includes only imported materials

Key table explaining calculation methods for A1-3, A4, A5w, and S5. Includes formulas like 'Calculation are based on Embodied Carbon Factors (ECF) to Extract & Manufacture the material' and 'Calculator for Cable & Ducts note'.

Project Photographs / Drawings

