

Falco Construction Limited

Carbon Footprint Summary Report

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GLOBAL TEMPERATURE RISE – 1.264°C

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Carbon Footprint Summary

Carbon footprint – 1,591.8 CO₂e/year

Table 1. Emissions by energy type and scope (August 2021 – July 2022)

Energy type	Emissions (tCO ₂ e/yr)				Outside of Scopes*
	Scope 1	Scope 2	Scope 3	Total	
Electricity	0.0	12.4	4.4	16.7	7.4
Diesel (10PPM)	1225.4	0.0	292.2	1517.5	52.8
Unleaded petrol (10PPM)	34.8	0.0	9.9	44.7	1.3
Ultimate diesel (10PPM)	8.8	0.0	2.1	10.8	0.4
Ultimate unleaded petrol (10PPM)	1.4	0.0	0.4	1.8	0.1
AdBlue	0.2	0.0	0.0	0.2	0.0
Total	1270.6	12.4	308.9	1591.8	61.9

*Biogenic CO₂ accounted for as net '0' due to absorption during growth phase, does not contribute to carbon footprint. Further information in appendix.

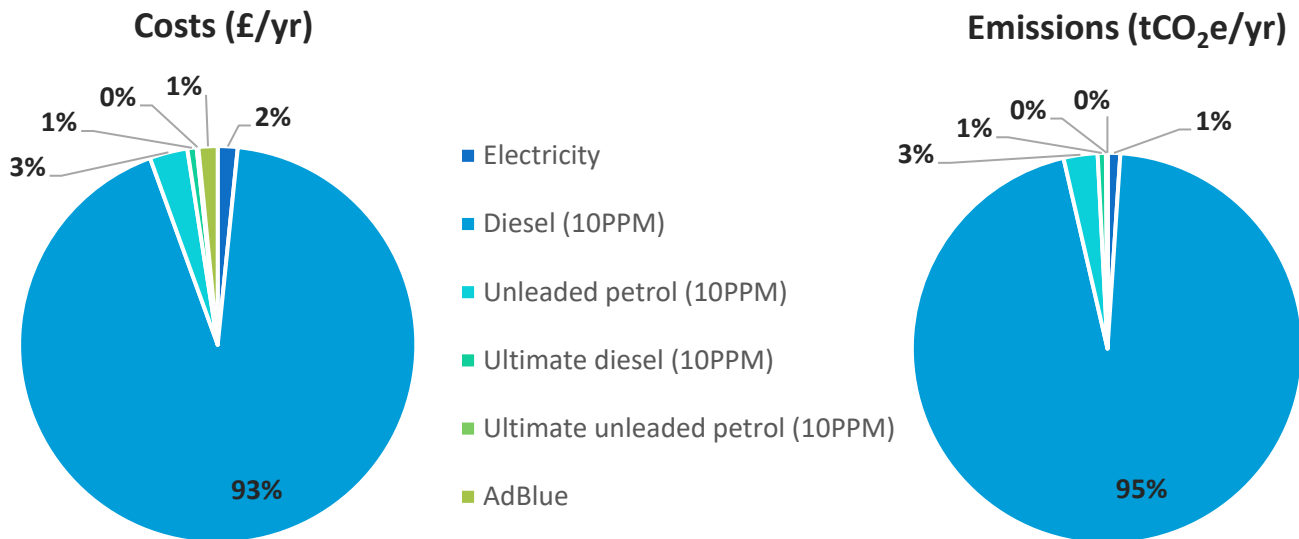


Figure 1. Cost (left) and emissions (right) breakdown

Key performance Indicator (KPI)

Distance Travelled (miles) 2,580,602

0.62 KPI tCO₂e/yr/1000miles

The carbon footprint of 1592.8 tCO₂e/year can be taken for the year August 2021 to July 2022, exact dates for extrapolated data can be found within the appendix.

The key performance indicator of 0.62 tCO₂e/yr/1000miles can be used to compare relative annual performance. This compares to last year’s KPI of 0.94 tCO₂e/yr/1000miles, a reduction of 34%.



Appendix

Data

Energy data – Electricity calculations used data from 10/08/2021 to 10/08/2022 and vehicle fuel calculations used data from 01/08/2021 to 31/07/2022, where an exact year of measured data was not available, the closest dates have been extrapolated to create the figure for annual consumption. Electricity data was provided from utility bills and vehicle fuel consumption from business fuel card data recording.

Further specific figures used in calculations for the businesses are available upon request.

*Outside of scopes includes biogenic CO₂ factors that should be used to account for the direct carbon dioxide (CO₂) impact of burning biomass and biofuels, including when reporting emissions from electricity consumption. Scope 1 impact of these fuels has been determined to be a net '0' (since the fuel source itself absorbs an equivalent amount of CO₂ during the growth phase as the amount of CO₂ released through combustion).

WRI GHG Protocol – greenhouse gas breakdown

The carbon footprint was calculated using the WRI's GHG Protocol Corporate Standard with inclusion of scope 1, 2 and some reasonable scope 3 emissions.

Scope 1, Direct emissions – from sources that are owned or controlled by the company.

Emissions associated with fossil fuel consumption of on site in boilers, in fleet vehicles, etc.

Scope 2, Indirect emissions – that are generated elsewhere for the provision of electricity or heat that is purchased and used by the company.

Scope 3, All other indirect emissions – that are a consequence of the businesses activities that occur from upstream and downstream sources not owned or controlled by the company.

Calculations involved multiplying energy values by emissions factors to get carbon emissions. The most recent at the time of audit, [UK Government GHG Reporting Conversion Factors 2022](#) have been used and relevant energy types are seen in Table 2 below. AdBlue taken from Conversion factors 2022: methodology, Table 23, available at the same UK Gov Reporting site referenced above.

Table 2. Emission factors used (2022)

Energy type	Unit	Scope 1	Scope 2	Scope 3	Total	Outside of Scopes
		kg CO ₂ e	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e	kg CO ₂ e
Electricity: UK	kWh	0.0	0.19338	0.06817	0.2616	0.11507
Diesel (average biofuel blend)	litres	2.55784	0.0	0.60986	3.16770	0.1102
Petrol (average biofuel blend)	litres	2.16185	0.0	0.61328	2.77513	0.08293
AdBlue	kg	0.238	0.0	0.0	0.238	0.0



Inventory boundaries

The report covers emission from the UK business Falco Construction Limited (05285429) only.

The period covered is 1/08/2021 to 31/07/2022.

Scope 3 emissions include those associated with stated energy types; well-to-tank (WTT) (i.e. upstream emissions from the production of fuel or electricity), transmission and distribution (T&D) factors, WTT - UK electricity (generation), WTT- UK electricity (T&D).

Report remit – This report has been prepared to assist with informing the organization on its current energy and carbon use and highlight potential cost-effective energy saving measures, it does not constitute an engineering survey or precision audit based upon subsystem monitoring. It has been provided free of charge as an act of goodwill for the benefit of the organization and to encourage climate action.

Disclaimer - The accuracy, completeness and validity of any statements made are not guaranteed, the consultant accepts no liability for any errors, omissions or representation and all legal, safety, damages, losses and/or other liabilities are the responsibility of the business.

