



Alpha-Nero CO2 footprint strategy 2023

In Conjunction with Our bespoke GHG Inventory software, Alpha-Nero is currently on a Journey to calculating CO2 emissions on a per project basis alongside capturing emissions for the company as a whole. In line with international standards and the GHG corporate protocols.

Scope 1

Alpha-Nero operates 5 primary vehicles for operational purposes.

Below shows the vehicle data for february of 2022 which is collected from our falcon vehicle tracking technology.

Object	Object Brand	Object Model	Start Odometer	Distance	Running V/S Stop	Running	Idle	Stop
X-96612	Toyota	Hilux	69593.45	5926.34	18.00% - 82.00%	130:49	43:49	569:21
O-42181	Toyota	Hiace	6504.19	5278.65	19.00% - 81.00%	135:28	39:07	569:24
C-57025	Toyota	Hilux	112526.57	4212.71	17.00% - 83.00%	97:18	42:58	469:51
N-95102	Mitsubishi	Pajero	441226.4	3276.9	13.00% - 87.00%	88:19	70:39	585:01
Q-92183	Toyota	Innova	31647.67	1946.3	9.00% - 91.00%	69:20	19:22	655:17

The monthly vehicle usage is then inputted into our GHG inventory which converts the distance covered to emissions in tCO2e in line with GHG protocols. 2022 data can be seen below.

Table 2

Fuel Type	Monthly Vehicle Fuel Consumption in Litres												Annual Fuel Consumption in Litres
	January	February	March	April	May	June	July	August	September	October	November	December	
Diesel													0
Petrol	20,641	19,411	22,365	21,025	23,254	21,456	18,975	17,894	18,751	22,454	19,654	17,365	243245
Monthly Emissions in tCO2	49.538	46.586	53.676	50.460	55.810	51.494	45.540	42.946	45.002	53.890	47.170	41.676	584

That gives Alpha-Nero a net **584 tCO2e** for scope 1 in 2022. Alpha-Nero's commitment is to cut this **10% by the end of 2023**. This is to be achieved through new lower emission vehicles alongside more detailed and organised planning to reduce overall usage.

Scope 2

Below is the table of contents relating to Alpha-Nero's CO2 footprint with relation to Electrical usage for 2022

Month	Account A	Account B	Total KgCO2e
January	7680	4587	12267
February	10464	5489	15953
March	5507	9856	15363
April	11488	6837	18325
May	9408	13452	22860
June	13920	8582	22502
July	12032	10952	22984
August	16640	10115	26755
September	19072	11891	30963
October	16384	9718	26102
November	15136	9568	24704
December	10944	6856	17800
Total			256578

Alpha-Nero remains committed to reducing this footprint, through explorations into Carbon removals through its GHG inventory. Along side relocation to a leed certified factory which will harness renewable energy.

Scope 3

Business travel

Below details the impact of 6x short haul flights calculated by for a project completed by Alpha-Nero. Due to the enormous environmental impact Alpha-Nero is committing to reduce all business travel with the use of virtual platforms.

Time frame	Scope	Type	Office(s)	Title	kgCO ₂ e
2021.07.18 – 2021.09.26	Scope 3	Air Travel	Salam Qatar (100%)	Job #2762	2,203
Description: Empty					
Calculation description: Emissions estimates have been calculated using national data figures published by government bodies. For more details on specific figures visit our docs page or contact support. Value estimated for Short haul flight in Business class class.					
km: 1600					
Type: Short haul					
Class: Business class					
Factor: 0.22947					
Passengers number: 6					
This emission value is estimated.					
Added by: Test, Trev 15:06 2021-11-20 Last modified by: Not modified yet.					

The development of a comprehensive GHG Inventory is allowing Alpha-Nero to target reduction within specific scopes and areas of each scope based upon the data. Based on the data below business travel has been cut. A modern fleet of vehicles with lower emissions are now in use. New and environmentally considered materials such as FSC woods are also in wider use. We are also separating materials for recycling to reduce waste to landfill. This is data from 3 projects which have been tested and calculated in the GHG inventory tool.

Project Serial No	Start Date	End Date	Emission in tCO ₂								
			Electrical Energy Consumption	Water Consumption	Vehicle Travel	Employee Commute	Waste Generation	Air Travel	Material Consumption	Freight Emission	Total Emissions
AN01	01/07/2022	19/08/2022	1.12	0.02	1.96	0.26	0.71	0.00	6.82	0.02	10.91
AN02	10/08/2022	02/11/2022	2.32	0.04	3.80	0.48	1.28	0.00	6.57	0.69	15.18
AN03	12/06/2022	19/08/2022	1.54	0.03	2.87	0.37	0.99	0.00	8.30	0.69	14.78