

Birkin Cleaning Services Ltd

2024 Carbon Footprint Report

Neutral Carbon Zone Analysis and Report on Organisational and Operational Emissions

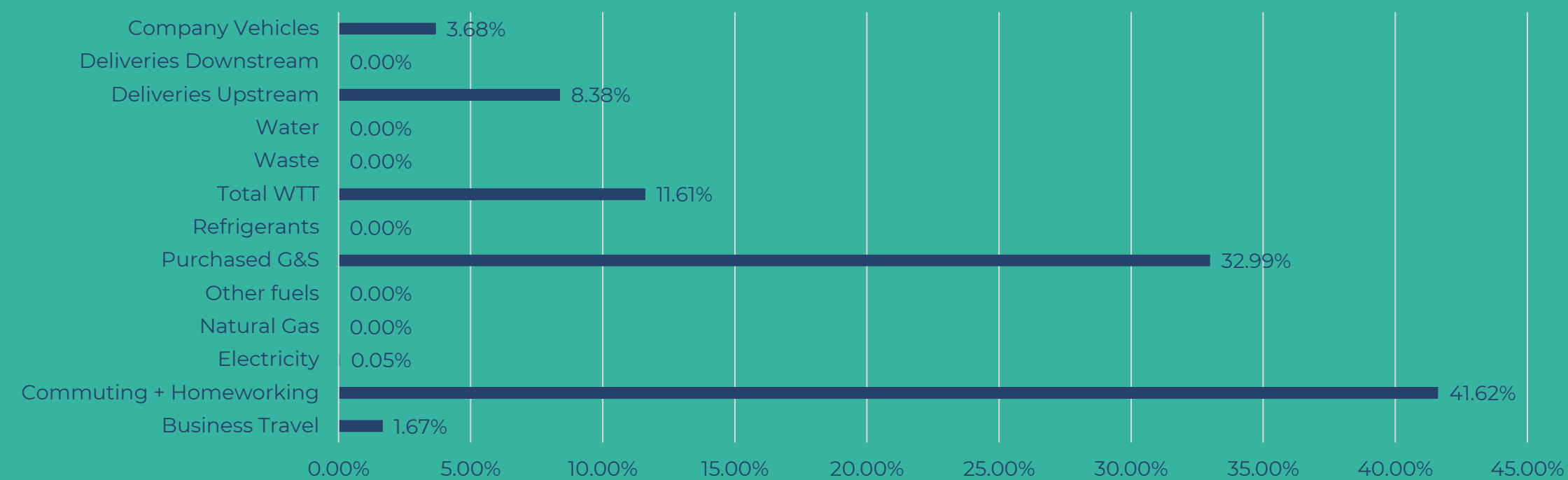


Executive Summary

This report details Birkin Cleaning Services Ltd carbon footprint for the 2024 year.

The analysis shows that Birkin Cleaning Services Ltd’s carbon emissions for the period amounted to **2,421.06 tonnes of CO₂e**. The largest single source of emissions was Commuting and Homeworking (41.62%) followed by Purchased Goods and Services (32.99%), Energy and Fuel related Activities (Well-to-Tank and Transmission & Distribution) (11.61%) and Deliveries Upstream (8.38%), as illustrated below.

Percentage of Carbon Emissions by Activities, 2024





Intensity Metrics

In addition to reviewing the absolute footprint, this report also benchmarks emissions “per £ million turnover” and “per full time employee (FTE)”. As opposed to absolute metrics, these intensity metrics provide relative tCO₂e figures for organisational carbon footprints. This allows for comparison between companies, but can also provide a useful alternative to absolute figures. For example, if a company is growing rapidly the absolute tCO₂e figure may increase, however the intensity metric will be useful in highlighting relative improvements in carbon intensity.

Emissions	Annual figure
Total Footprint (KgCO ₂ e)	2,421,057.61
FTE	1,375
Revenue (GBP)	24,387,359.00
Total Footprint/ FTE	1,760.77
Total Footprint/ Million Revenue	99,275.10





Introduction

Birkin Cleaning Services Ltd retained Neutral Carbon Zone to measure their organisational carbon footprint.

Birkin provides expert cleaning solutions tailored to a range of sectors, ensuring clean and hygienic environments. With a dedicated team, the company delivers high-quality, service-led cleaning for offices, schools, and construction sites, helping businesses maintain safe, professional, and welcoming spaces.

This section outlines the processes and methodology used in this project. It explains the calculation principles and sets the operational boundaries of the footprint. The following section presents an in-depth analysis of all the emissions sources. This report includes Scope 1 Direct Emissions, Scope 2 Energy Indirect Emissions and Scope 3 Other Indirect Emissions.

The reporting period is 1st January 2024 to 31st December 2024.



Standard & Scope

FOOTPRINTING PROCESS

A carbon footprint assessment measures the carbon emissions generated by your organisation's activities. The carbon footprint report is the critical first stage of a comprehensive and commercially focused carbon management plan. To measure your carbon emissions, this report follows the methodology of the internationally recognised standard ISO-14064-2006.



SCOPE 1
Direct emissions - Emissions from greenhouse gas sources owned or controlled by the organisation.



SCOPE 2
Energy indirect emissions - Emissions from the generation of imported electricity, heat or steam consumed by the organisation.



SCOPE 3
Other indirect emissions - Emissions which are consequences of an organisation's activities but arise from sources that are owned or controlled by other organisations.

ISO 14064 requires the measurement of carbon emissions arising from Scope 1 and 2. While not mandatory, inclusion of Scope 3 emissions is advised as it can lead to a greater understanding of the company's wider impacts.

In this report, the term 'carbon emissions' not only includes carbon dioxide (CO₂), but all other greenhouse gases (GHG) covered under the Kyoto Protocol: methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFC), perfluorocarbons (PFC) and sulphur hexafluoride (SF₆).



SCOPE OF THE FOOTPRINT

ORGANISATIONAL BOUNDARY

In accordance with ISO 14064, the approach used in this footprint is based on the principle of operational control. Under the control approach we accounted for 100% of the GHG emissions from operations over which Birkin Cleaning Services Ltd has control. Control can be defined in either financial or operational terms.

- The financial control approach – Birkin Cleaning Services Ltd has financial control over an operation if it has the ability to direct the financial and working policies of the organisation with a view to gaining economic benefits from its activities.
- The operational control approach – Birkin Cleaning Services Ltd has operational control over an organisation if it or one of its subsidiaries has the full authority to introduce and implement its working policies at the business.

Operational control approach has been used for Birkin Cleaning Services Ltd's footprint calculation.

OPERATIONAL ACTIVITIES

Activities Included in the Scope for the Footprint

In accordance with ISO 14064 the organisational boundaries for this carbon footprint were company vehicles, natural gas, fuels, refrigerants, electricity, business travel, commuting, homeworking, water, waste, purchased goods and services and well-to-tank.

Activities Excluded from the Scope of the Footprint

No activity deemed to be a significant driver of carbon emissions has been excluded from the scope of this footprint.





DATA ACCURACY

The data provided by Birkin Cleaning Services Ltd covers the period from 1st January 2024 to 31st December 2024. The majority of data was primary, but some data was secondary and extrapolated using benchmark approaches. Neutral Carbon Zone collated the supplied data and summarised it in a single summary spreadsheet.



Natural Gas – N/A



Water – All offices were calculated from a management based decision using data supplied by South Staffs Water UK.



Electricity - A management based decision was made using consumption median (m2 per employee) from Non-domestic National Energy Efficiency Data-Framework (ND-NEED) 2022.



Company Vehicles – Annual spend for fuel was supplied and converted to litres.



Commuting and Homeworking – data was derived from a recent staff survey which received 158 responses (11%). Benchmarks were created from the collected data and extrapolated out to predict where there was a shortfall in primary data.



Business Travel – Data was supplied as spend, no WTT was calculated.





DATA ACCURACY

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Other Fuels – N/A



Refrigerants – N/A



Upstream Deliveries – Data was provided as spend broken down by mode of transport, emissions calculated using EPA emission factors.



Downstream Deliveries – N/A



Purchased Goods and Services – Spend data has been provided broken down by EPA category. Where emissions data has been provided by suppliers, this has been used instead.



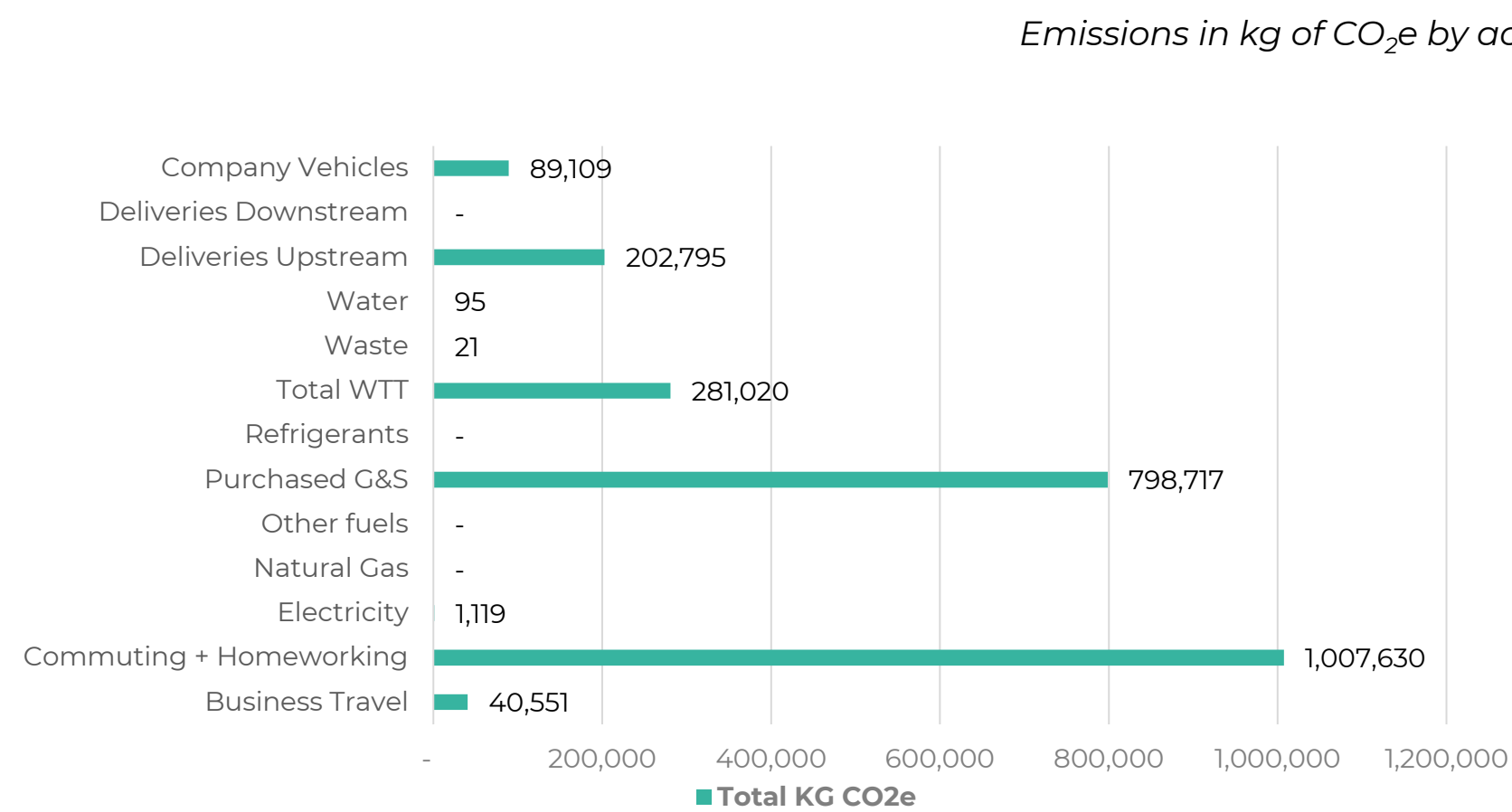
Waste – Waste was provided as actual data in tonnes by Birkin Cleaning Services Ltd.



Results

EMISSIONS BY ACTIVITY

The results of the project show that Birkin Cleaning Services Ltd's carbon footprint for the 2024 year was **2,421.06 tonnes of CO₂e**. A breakdown of emissions by activity is shown in the chart below:



Commuting and Homeworking in Scope 3 accounted for the largest proportion of emissions at 1,007.63 tCO₂e (41.62%), followed by Purchased Goods and Services 798.72 tCO₂e (32.99%) and Energy and Fuel related Activities (Well-to-Tank and Transmission & Distribution 281.02 tCO₂e (11.61%) and Deliveries Upstream 202.80 tCO₂e (8.38%),



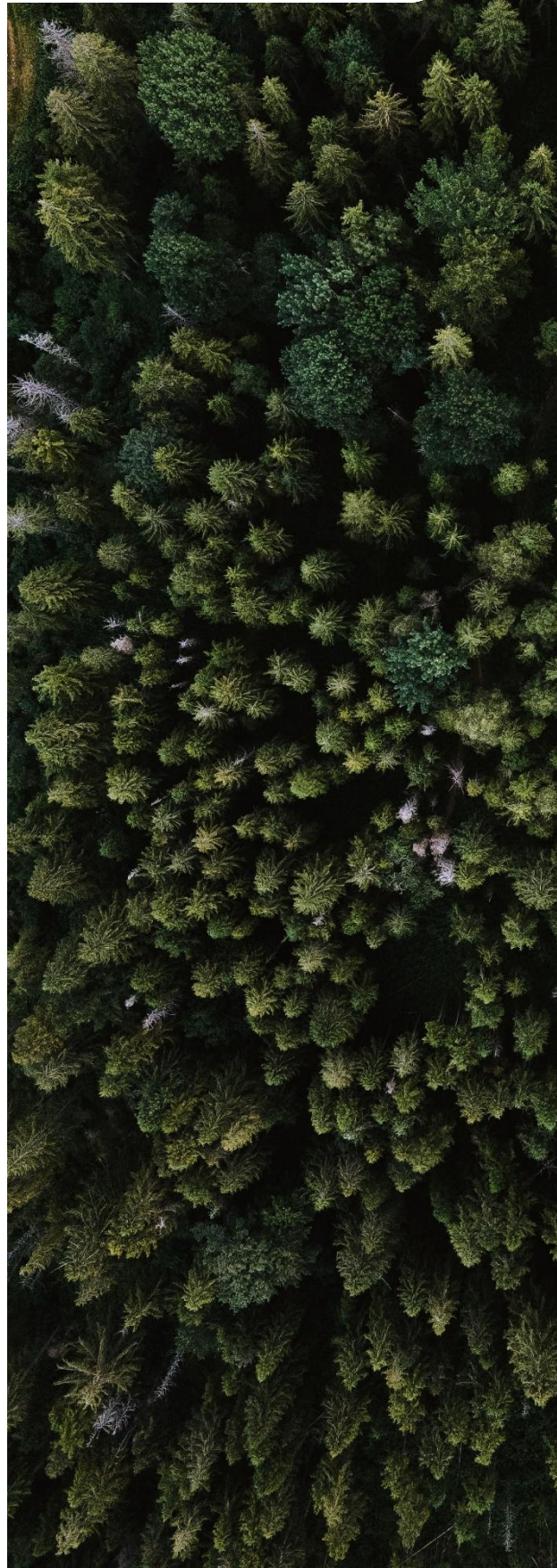
SUMMARY OF RESULTS



CARBON FOOTPRINT BY ACTIVITY

Birkin Cleaning Services Ltd's organisational carbon footprint by type of emission and activity.

Scope	Category	Total KgCO2e	% of total emissions scope wise	% of total emissions
Scope-1	Natural Gas	-	0.00%	0.00%
	Other fuels	-	0.00%	0.00%
	Refrigerants	-	0.00%	0.00%
	Company Vehicles	89,109	100.00%	3.68%
	Total Scope-1	89,109	100.00%	3.68%
Scope-2	Electricity	1,119	100.00%	0.05%
	Total Scope-2	1,119	100.00%	0.05%
Scope - 3	Business Travel	40,551	1.74%	1.67%
	Commuting + Homeworking	1,007,630	43.23%	41.62%
	Waste	21	0.001%	0.001%
	Water	95	0.004%	0.004%
	Deliveries Upstream	202,795	8.70%	8.38%
	Deliveries Downstream	-	0.00%	0.00%
	Purchased G&S	798,717	34.27%	32.99%
	WTT-Electricity	347	0.01%	0.01%
	WTT-Company Cars	22,402	0.96%	0.93%
	WTT-Commuting + Homeworking	258,271	11.08%	10.67%
	Total Scope-3	2,330,829	100.00%	96.27%
	TOTAL KgCO2e	2,421,058		100.00%





SCOPE 1 - DIRECT EMISSIONS

Direct Emissions arise from the generation of greenhouse gases in company-owned or leased assets. In most businesses these arise from consumption of gas in buildings (heating & hot water) and fuels in company-owned vehicles. They also arise as a result of other heating fuels, chemical reactions and gas leakage (fugitive emissions) during manufacturing, production and from air conditioning systems.

Direct Emissions amounted to **89.11 tonnes of CO₂e** or 3.68% of Birkin Cleaning Services Ltd's total footprint and stems mostly from the usage of Company Vehicles.

SCOPE 2 - INDIRECT ENERGY EMISSIONS

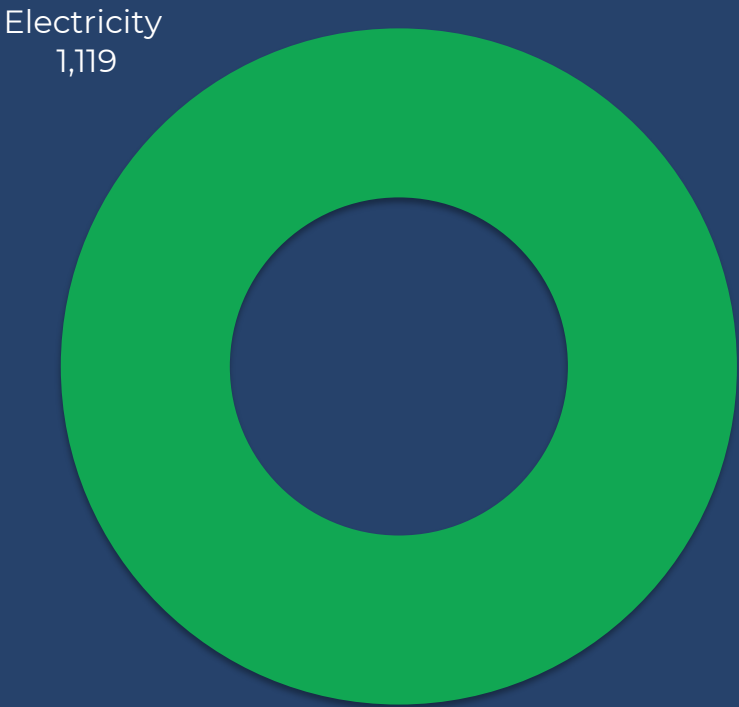
Indirect Energy Emissions arise from the generation of imported electricity, heat or steam consumed by the company. For Birkin Cleaning Services Ltd, indirect energy emissions stemmed from the consumption of electricity for lighting, cooling, IT and other electrical equipment. Birkin Cleaning Services Ltd's Scope 2 emissions amounted to **1.12 tonnes of CO₂e** or 0.05% of the total footprint.



SCOPE 1 & SCOPE 2 EMISSIONS

UTILITIES AND FUELS

Emissions from utilities and other fuels consumed by Birkin Cleaning Services Ltd totalled 1.12 tonnes of CO₂e, or 0.05% of the total emissions. The graph below shows the breakdown of these emissions. The below breakdown does not include WTT and T&D emissions.



Utilities and Fuels Emissions Split



COMPANY VEHICLES

The category of company vehicles covers all vehicles owned by Birkin Cleaning Services Ltd. This category totalled 89.11 tonnes of CO₂e or 3.68% of the total emissions. The table below shows the split in emissions by vehicle/fuel type. The below breakdown does not include WTT and T&D emissions.

Mode of Transport	Litres	Total KgCO2e
Diesel (average biofuel blend)	9,904.05	20,644.01
Petrol (average biofuel blend)	27,246.77	68,465.42
Total		89,109.44

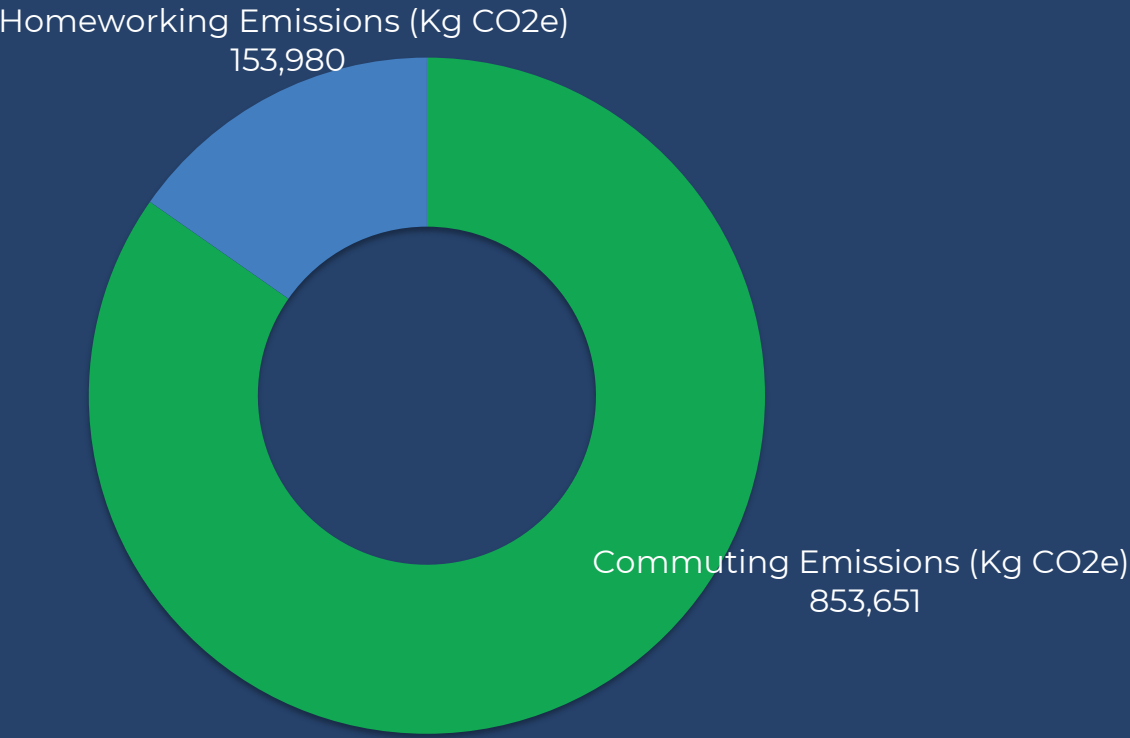
Company vehicle data emissions based on mode, distance travelled, and fuel consumption.

SCOPE 3 – INDIRECT OTHER EMISSIONS

The sources of Other Indirect Emissions comprised 96.27% of total emissions or 2,330.83 tonnes of carbon dioxide equivalent. This arises mainly from Commuting and Homeworking, and Purchased Goods and Services.

EMPLOYEE COMMUTING AND HOMEWORKING

The category of employee commuting covers both the emissions from commuting made by Birkin Cleaning Services Ltd staff to work and emissions associated with homeworking. This category totalled 1,007.63 tonnes of CO₂e or 41.62% of total emission. The graph below shows the split in emissions between commuting and homeworking.



Employee Commuting vs Homeworking Emissions Split



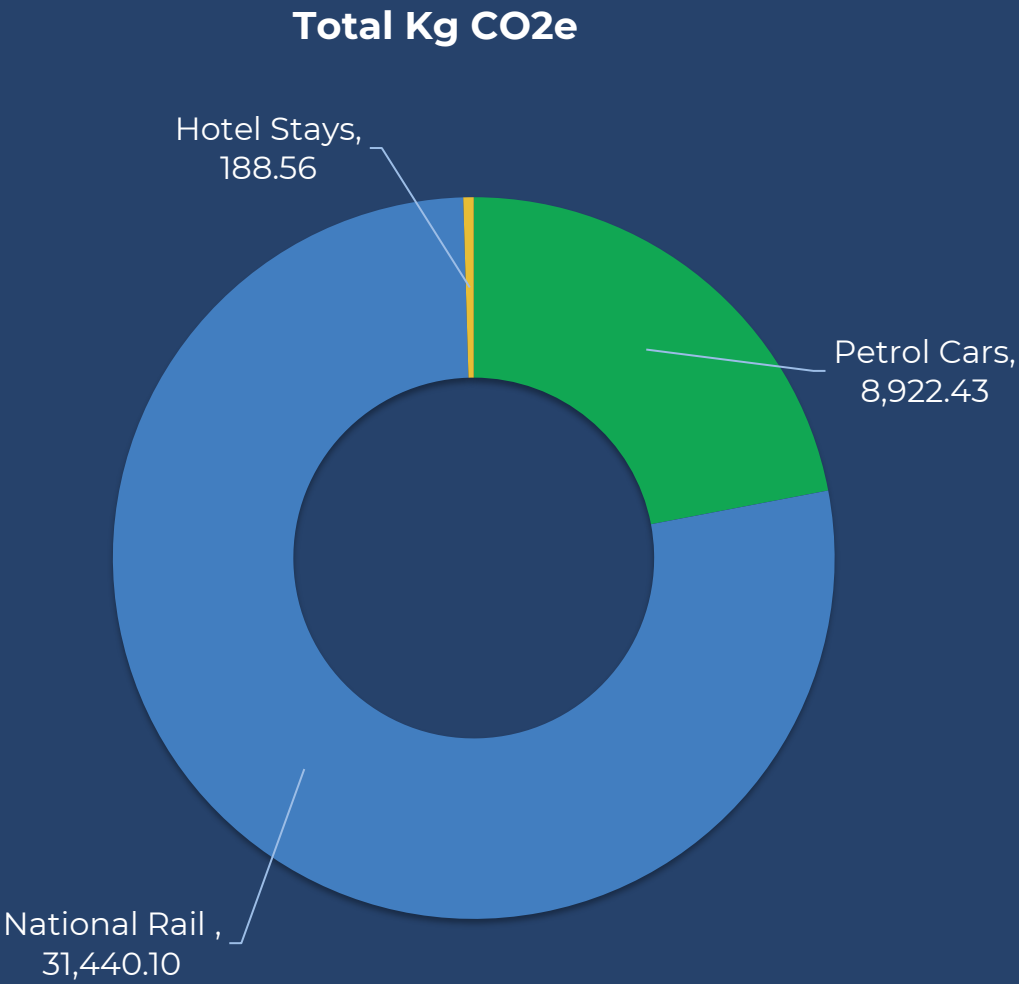
Commuting data emissions based on commuting mode and distance travelled.

Mode of Transport	Distance	Total KgCO ₂ e
Petrol Cars	752,987	202,105
Diesel Cars	442,827	109,286
Overground	33,763	1,554
Underground	122,508	5,481
Bus	1,858,766	222,769
Walk/Cycle	816,517	-
Total	7,804,580	853,650.73

SCOPE 3 – INDIRECT OTHER EMISSIONS Cont..

BUSINESS TRAVEL

Business journeys made by Birkin Cleaning Services Ltd staff resulted in 40.55 tonnes of CO₂e (1.67% of total emissions). The majority of these emissions stem from rail travel.



Business Travel Split

WASTE

In the year 2024, Birkin Cleaning Services Ltd produced 1.00 tonnes of waste resulting in 0.021 tCO₂e, 0.001% of the total footprint. The table below outlines the split in waste type and emissions.

Waste Type	Tonnage	Emissions kgCO2e
Mixed Recycling	1.00	21.34
General Waste to landfill	-	-
TOTAL	1.00	21.34

WATER

Water consumption amounted to approximately 281.25m³. Emissions associated with supply and treatment of water therefore resulted in 0.095 tonnes of CO₂e or 0.004% of the total footprint.

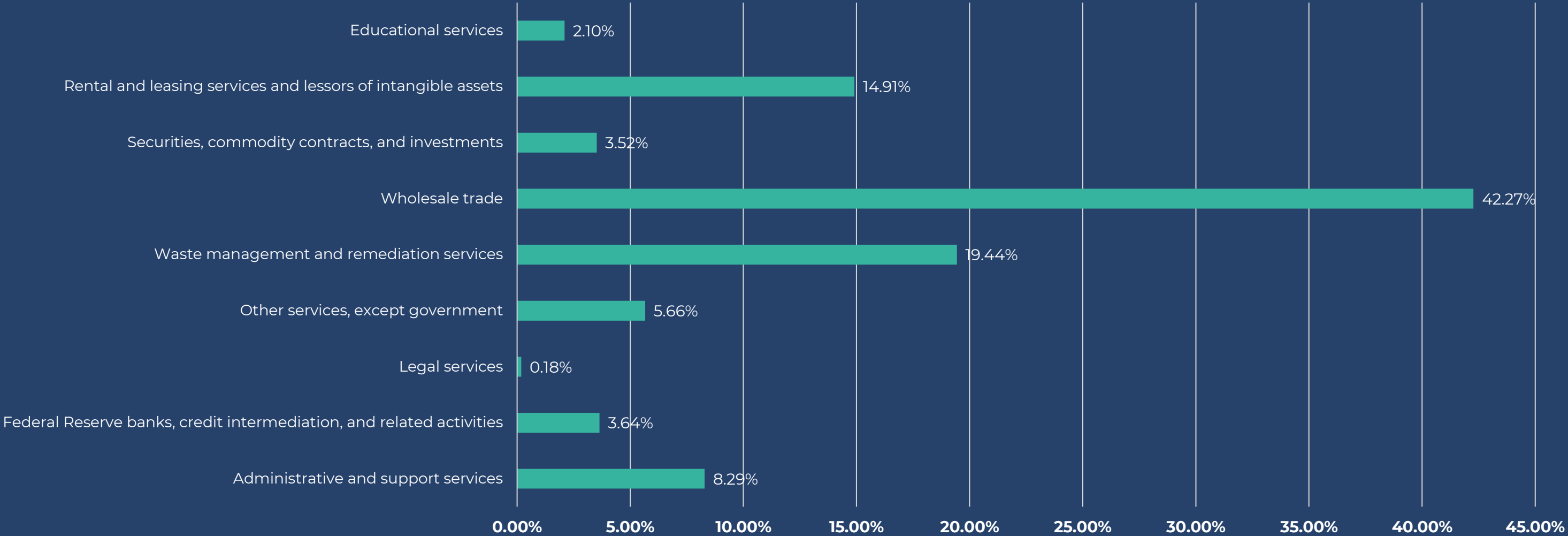




PURCHASED GOODS & SERVICES

Goods and services purchased by Birkin Cleaning Services Ltd resulted in 798.72 tonnes of CO₂e (32.99% of total emissions). The below graph shows the total Purchased Goods and Services emissions by spend category.

Emissions breakdown by spend category for P G&S



SCOPE 3 – INDIRECT OTHER EMISSIONS Cont..



PURCHASED GOODS & SERVICES

Goods and services purchased by Birkin Cleaning Services Ltd resulted in 798.72 tonnes of CO₂e (32.99% of total emissions). The below graph shows the total Purchased Goods and Services emissions based on data received through supplier outreach by supplier category.

Emissions breakdown by supplier category for P G&S

Supplier category	Number of suppliers	Total KgCO2e
Washroom services	1	14,602.50
Waste management	1	10,900.00
Air conditioning contractor	1	9,093.24
Wholesale trade	1	3,522.00
Occupational health	1	50.49
Total	5	798,716.87

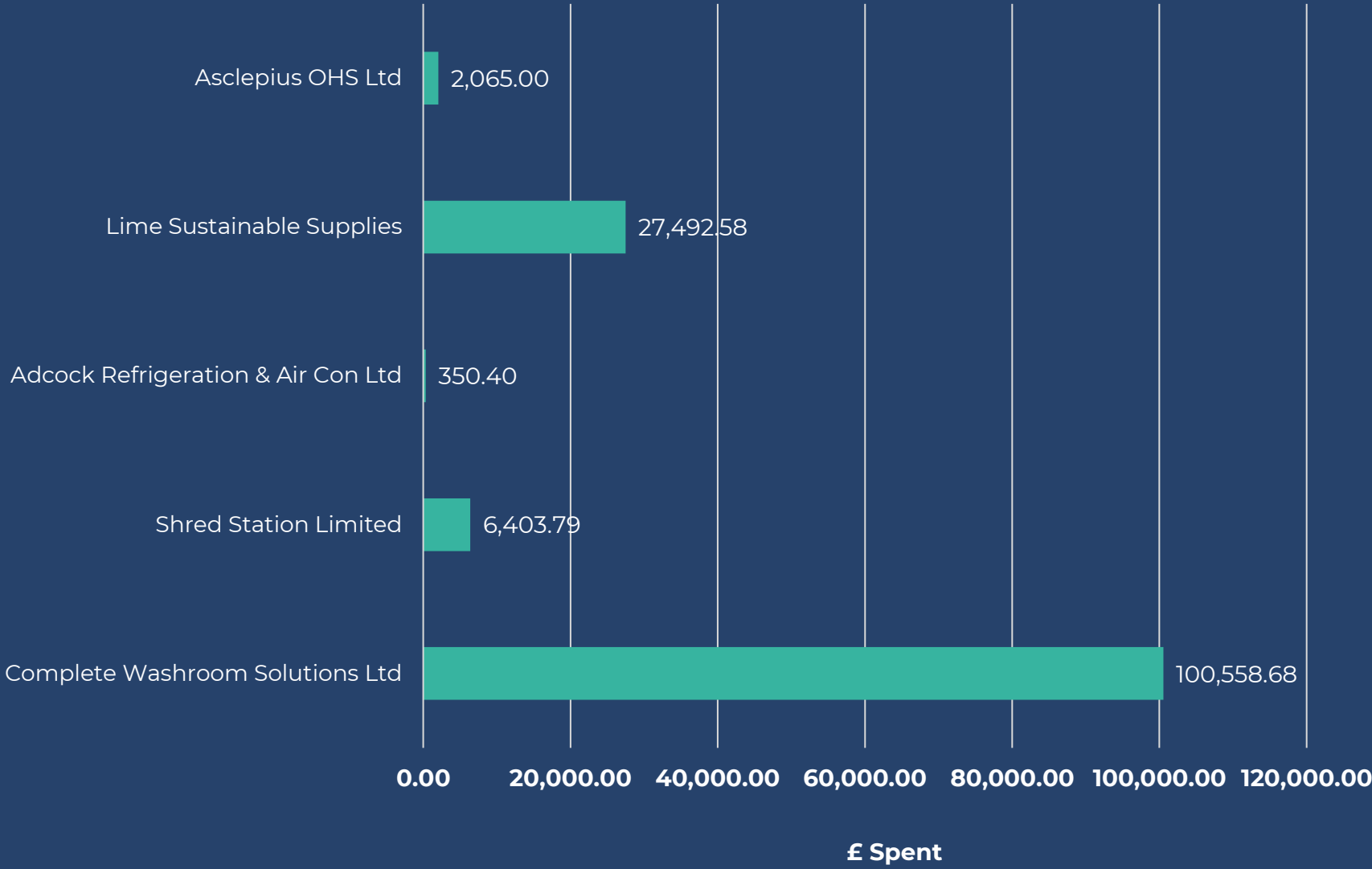
SCOPE 3 – INDIRECT OTHER EMISSIONS Cont..



PURCHASED GOODS & SERVICES

The below graph shows the emissions by supplier, these 5 suppliers make up 4.78% of all Purchased Goods and Services emissions (38.17 tCO₂e). Complete Washroom Solutions makes up the largest source of all supplier emissions with emissions of 14.60 tCO₂e (1.83%).

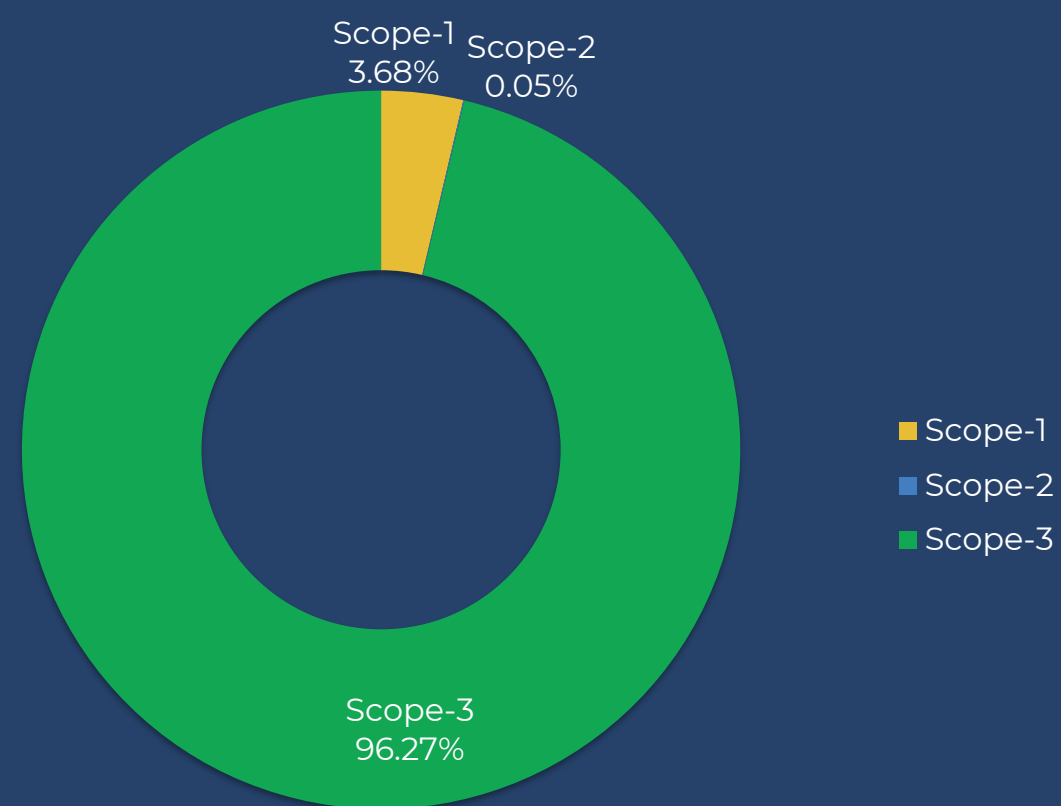
Spend breakdown by supplier for P G&S



SCOPE 3 – INDIRECT OTHER EMISSIONS Cont..

WELL-TO-TANK (WTT) AND TRANSMISSION & DISTRIBUTION (T&D)

WTT and T&D emissions are those emissions associated with the upstream processes of extracting, refining, and transporting raw fuel and energy to the vehicles, assets, or other process under scrutiny. Birkin Cleaning Services Ltd's WTT and T&D emissions amounted to 281.02 tCO₂e or 11.61% of the total footprint, and is made up of gas and electricity consumption, as well as fuel consumption relating to business travel, employee commuting, and deliveries. Note that this emissions driver is dependent on other categories, and therefore rises and falls with other scopes. For example, as more fuels like gas must be extracted, processed, and transported to Birkin Cleaning Services Ltd company site, more well-to-tank emissions are released.



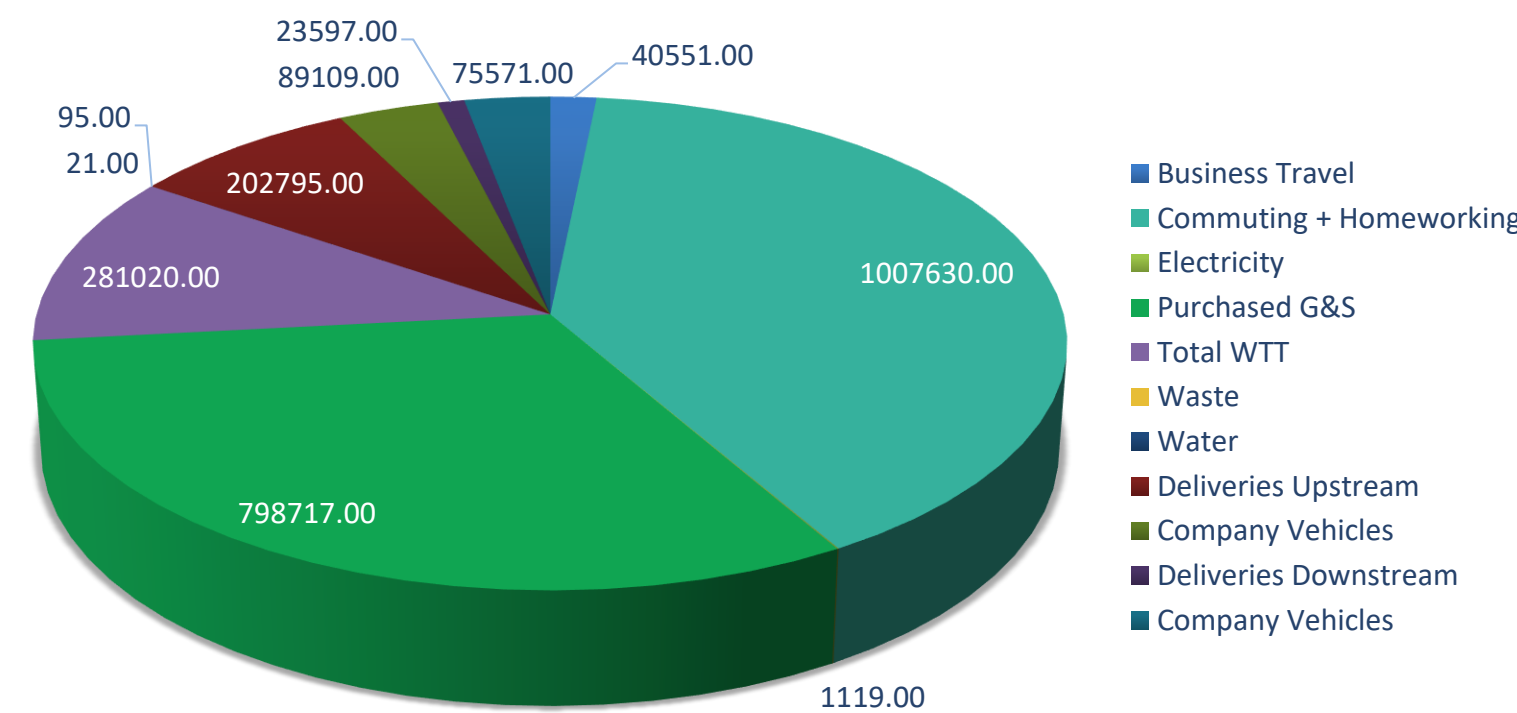
Emissions split by Scope





Conclusions & Recommendations

Neutral Carbon Zone has analysed Birkin Cleaning Services Ltd's footprint and are able to provide the following recommendations to reduce emissions. These recommendations are ordered in terms of priority, starting with the highest emissions activity. If undertaken, these recommendations have potential to significantly reduce Birkin Cleaning Services Ltd's carbon footprint.



Emissions in kgCO₂e by Category



CONCLUSIONS & RECOMMENDATIONS

Ø Employee commuting and homeworking was the largest emissions driver at 41.62% of emissions. Emissions can be reduced by encouraging greater use of public transport i.e., buses, overground and underground where possible and/or car-share schemes, walking/cycling and other active transport options to reduce the use of more carbon intensive modes of transport such as petrol and diesel personal vehicles.

Ø Purchased Goods & Services was the second largest emissions driver. It accounts for approximately 32.99% of total emissions. NCZ recommends that Birkin Cleaning Services Ltd carries out an in-depth supply-chain analysis in order to identify the specific individual impacts of the goods and services being purchased and highlight any potential efficiencies that are available and/or currently appropriate to be implemented. This can be facilitated through NCZ Platinum certification.

Ø Well to Tank emissions, the third largest emissions driver (11.61%), will subsequently fall with the reduction in other energy and fuel related activities.

Ø Upstream deliveries was the fourth largest emissions driver and accounted for 8.38%. Establishing a process to track what items are being delivered and how often is recommended. This would allow a deeper understanding into this emissions source allowing specific targeting reductions in these emissions.



CONCLUSIONS & RECOMMENDATIONS Cont..

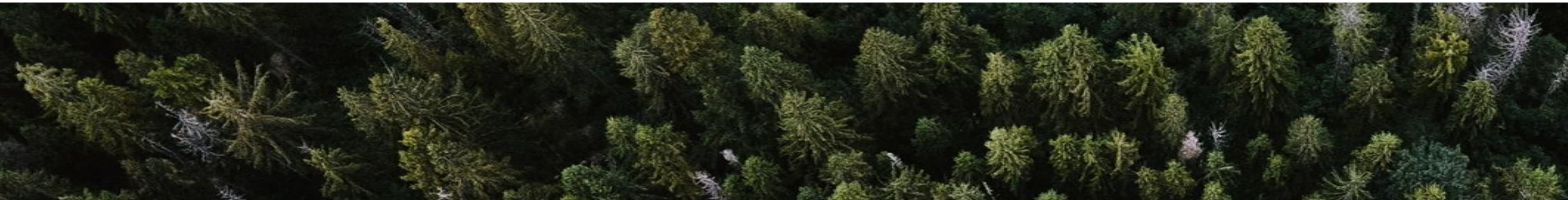
Ø Company vehicles was the fifth largest emissions driver (3.68%). Neutral Carbon Zone therefore recommends Birkin Cleaning Services Ltd consider a transition analysis of their vehicle fleet towards hybrid and/or electric vehicles wherever feasible. Emissions can also be further reduced by avoiding any unnecessary use of fossil fueled vehicles where less emission intensive options are available and practical, including greater use of public transport, car-share schemes and active transport (walking and cycling) should be considered wherever practical and/or appropriate.

Ø Business travel is the sixth highest emitter and accounts for 1.67% of total emissions. Data was supplied as spend data. Establishing a process to track fuel use and/or distances travelled by type is recommended. Additionally, consideration into alternative options regarding modes of transport and route/requirement analysis can be influential in the reduction of emissions in this category.

Ø Purchased electricity was the seventh largest emissions driver accounted for 0.059% of total emissions. This can be reduced further by switching to a 100% renewable energy tariff for purchased electricity and investigating the opportunities for the reduction in electricity consumption.

Ø Waste accounts for 0.001% of total emissions. In order to reduce emissions associated with waste, Birkin Cleaning Services Ltd would need to focus on waste reduction measures where possible. In order to understand how this can be done most effectively, a greater understanding of type of waste and disposal is needed. Birkin Cleaning Services Ltd could also consider a zero waste to landfill policy.

Scope Categories	Best Practice Data/Evidence
Business Travel	Data relating to the actual distances travelled/number of hotel stay nights
Commuting + Homeworking	100% survey response rate
Company Vehicles	Data relating to litres of fuel consumed and evidence of fuel purchases (for example fuel card reports)
Electricity	Consumption provided as kWh and evidence of consumption (for example landlord reports or invoices)
Natural Gas	Consumption provided as kWh and evidence of consumption (for example landlord reports or invoices)
Other fuels	Consumption provided in correct units and evidence of consumption (for example supplier reports or invoices)
Purchased G&S	Emissions data specific for each supplier
Refrigerants	Data relating to and maintenance reports provided as evidence showing the amount of top-up during the reporting period
Waste	Consumption provided in correct units and evidence of the amount of waste generated and disposal routes (for example supplier reports or invoices)
Water	Consumption provided in correct units and evidence of consumption (for example landlord reports or invoices)
Deliveries Downstream/Upstream	Data relating to and evidence of the distance travelled and weight of deliveries (for example supplier reports or invoices)



Comparisons

BIR
KIN



neutral
carbon
zone

Emissions	2023	2024	% Difference
Total Footprint (KgCO2e)	1,899,170.41	2,421,057.61	27.48%
FTE	1,360	1,375	1.10%
Revenue (GBP)	23,600,000.00	24,387,359.00	3.34%
Total Footprint/ FTE	1,396.45	1,760.77	26.09%
Total Footprint/ Million Revenue	80,473.32	99,275.10	23.36%

Scope	Category	Total KgCO2e 2023	Total KgCO2e 2024	% Difference
Scope-1	Natural Gas	-	-	-
	Other fuels	-	-	-
	Refrigerants	-	-	-
	Company Cars	108,220	89,109.44	-17.66%
	Total Scope-1	108,220	89,109	-17.66%
Scope-2	Electricity	12,459	1,119.11	-91.02%
	Total Scope-2	12,459	1,119	-91.02%
Scope - 3	Business Travel	30,041	40,551.09	34.98%
	Commuting + Homeworking	646,857	1,007,630.30	55.77%
	Waste	5,714	21.34	-99.63%
	Water	311	95.30	-69.40%
	Deliveries Upstream	2,176	202,794.51	9217.93%
	Deliveries Downstream	-	-	-
	Purchased G&S	897,365	798,716.87	-10.99%
	WTT- Total	196,026	281,020	43.36%
	Total Scope-3	1,778,492	2,330,829	31.06%
TOTAL KgCO2e		1,899,170	2,421,058	27.48%