

Birmingham Optical Group 2025

Towards a Sustainable Future

Carbon footprint





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Introduction

Birmingham Optical is a leading entity in the optical industry supply chain. We recognize the importance of reducing our carbon footprint and contributing to a sustainable future. Our commitment to the environment drives us to implement effective strategies that benefit both our business and the planet we share.

By embracing innovative technologies and adopting sustainable practices, we believe we can significantly reduce our carbon emissions. We are optimistic about the future and the positive changes we can achieve together.

Our carbon reduction plan outlines our goals, strategies, and initiatives to minimize our environmental impact. By working collaboratively and engaging our employees, suppliers, and stakeholders, we are confident we can create a more sustainable and resilient warehouse distribution and installation service.

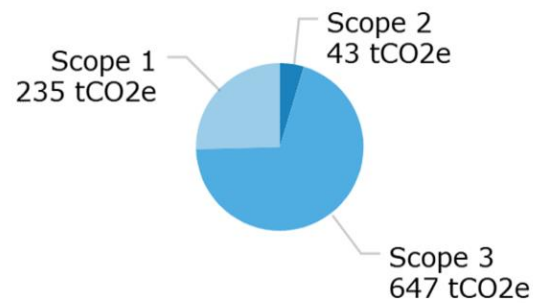
We are very proud of our achievements, and our goals moving forward will set the standard within the optical industry



Arran Fewkes - CEO
of Birmingham
Optical

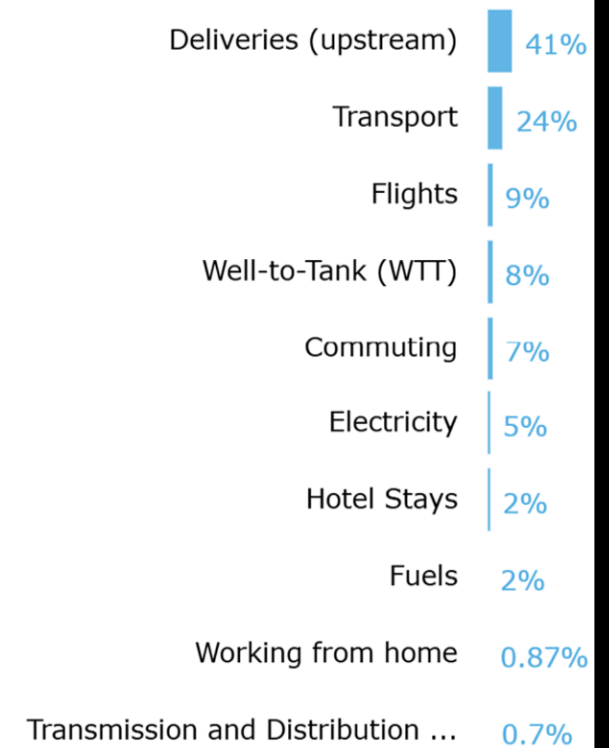
Site Summary

Your total Carbon Footprint



Total 925 tCO₂e

Your Carbon Footprint breakdown



Our Carbon reduction targets

5% Reduction Every Year

To support this target and demonstrate our commitment to reduce our carbon emissions, we will produce a carbon reduction plan inline with PPN 06/21.

Birmingham Optical Group will work with its partners to establish a yearly emission reduction target and this KPI will be integrated into our reporting system to ensure annual targets are met.

GHG Scope	Emissions sources
Scope 1	Direct emissions resulting from sources that are owned and controlled by Birmingham Optical Group
Scope 2	Indirect emissions from purchase of electricity and onsite EV charging
Scope 3	Indirect emissions from other sources not included in Scope 1 and 2 categories. We include in our carbon footprint scope 3 calculation business travel, deliveries we make, deliveries we receive, waste, commuting, work from home and supply chain purchases from our tier 1 suppliers.

Currently, we measure all our Scope 1 and Scope 2 emissions following the GHG protocol, and we measure a subset of scope 3 emissions (PPN 06/21 requirement) following the Corporate Value Chain Scope 3 Standard.

Commitment to Net Zero

Birmingham Optical Group is committed to reducing its carbon footprint by 25% by 2030 when compared to 2024.

This report sets out a Net Zero roadmap, detailing the strategies we have put in place to achieve this goal.

Baseline Emissions

Our baseline emissions comparison year is 2024

Baseline year emissions: Jan 2024 - Dec 2024	
Emissions	TOTAL (tCO ₂ e)
Scope 1	235
Scope 2	43
Scope 3 (including sources)	647
Total emissions	925

Note: UK-specific emissions factors were used for all calculations - even for sites not in the UK

Baseline Year Calculation Assumptions

- Upstream transportation and distribution was estimated using general assumption on distance and number of deliveries per month.
- We worked with Enistic Ltd who helped to conduct a staff survey. The survey received a 10% response and the data was used to calculate emissions from commuting and home working.
- Emissions from downstream transportation and distribution are estimated by multiplying monetary value of each journey by emission factors provided by DEFRA.
- Business travel emissions from flights, trains, taxis and ferries were also estimated by multiplying monetary value of each journey by emission factors provided by DEFRA.



Emissions Breakdown

Scope 1	Emissions TOTAL (tCO ₂ e)
1: Gas	14.3
1: Hybrid car	149
1: Medium Van 1.7-2.0 litre diesel	58.5
1: Large car over 2.0 litre petrol	13.1
1: Heating Oil (litres)	0
Total Emissions Scope 1	235

Scope 2	Emissions TOTAL (tCO ₂ e)
2: Electricity	43
Total Emissions Scope 2	43

Scope 3	Emissions TOTAL (tCO ₂ e)
3.01: Purchased goods and services(SC)	0.1
3.04: Deliveries (upstream)	383
3.05: Waste	0.3
3.06: Flights	79.6
3.06: Hotel Stays	19.5
3.06: Train	0.2
3.06: Staff mileage	2.2
3.07: Working from home	8.1
3.07: Commuting	66.5
3.09: Deliveries (downstream)	3.2
3.3: Transmission and Distribution (T&D)	6.4
3.3: Well-to-Tank (WTT)	77.4
Total Emissions Scope 3	647

TOTAL EMISSIONS	925 tCO₂e
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Emission Reduction Targets

We project a linear reduction in our emissions from our baseline year by 5% per year to 2030. These targets may change as new projects are implemented and could be improved depending on investment in the future.

The graph on the right projects our future carbon emissions in two different scenarios. Starting with our emissions from the baseline year (2024), the white area shows our potential emissions in a business-as-usual scenario, with no further carbon reduction projects implemented. The green area shows our predicted carbon emissions based on our 5% reduction per Year to our goal of Net Zero.

