

Carbon Footprint Report – Baseline Year 2024



Reporting Period: 1 January 2024 - 31 December 2024

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1. Executive Summary

Ventol Ltd has completed its organisational carbon footprint for the 2024 baseline year. Total emissions amounted to **682.10 tCO₂e**, comprising:

- **Scope 1:** 448.83 tCO₂e
- **Scope 2:** 48.44 tCO₂e
- **Scope 3:** 122.09 tCO₂e (scaled category breakdown)
- **Out of Scope:** 39.26 tCO₂e

This baseline supports our long-term commitment to Net Zero and provides a foundation for future emissions reduction planning.

2. Introduction

This Carbon Footprint Report quantifies Ventol Ltd's greenhouse gas emissions across Scopes 1, 2, and 3 in accordance with the **GHG Protocol Corporate Accounting and Reporting Standard**. Calculations use **DEFRA 2024 emission factors**. The report establishes our baseline year and informs our Net Zero strategy.

3. Organisational Profile

- **Company Name:** Ventol Ltd
- **Industry:** Construction Services
- **Employees:** 52
- **Head Office:** Tamworth, Staffordshire
- **Fleet:** Company vans and cars
- **Boundary Approach:** Operational control
- **Operational Scope:** All sites, vehicles, and activities under operational control

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4. Baseline Year (2024) Emissions Summary

4.1 Total Emissions

Total emissions for 2024: **682.10 tCO₂e**

| Scope | Emissions (tCO ₂ e) |
|--------------|--------------------------------|
| Scope 1 | 448.83 |
| Scope 2 | 48.44 |
| Scope 3 | 122.09 |
| Out of Scope | 39.26 |

4.2 Scope 1 - Direct Emissions

Scope 1 emissions include fuel combustion from company-owned vans and cars, as well as direct emissions from facilities. Total Scope 1 emissions: **448.83 tCO₂e**.

4.3 Scope 2 - Indirect Energy Emissions

Scope 2 emissions arise from purchased electricity. Total Scope 2 emissions: **48.44 tCO₂e**.

4.4 Scope 3 - Value Chain Emissions (Scaled Breakdown)

| Category | Emissions (tCO ₂ e) |
|--------------------------------------|--------------------------------|
| Business travel | 4.63 |
| Employee commuting | 17.80 |
| Office waste disposal | 5.85 |
| Purchased materials & subcontractors | 93.81 |
| Total | 122.09 |

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5. Methodology

5.1 Standards and Tools

- GHG Protocol (Corporate Standard)
- DEFRA 2024 GHG Conversion Factors
- Data sources: fuel card records, electricity bills, supplier data, waste records

5.2 Calculation Approach

Emissions were calculated using the formula:

Activity Data × Emission Factor = tCO₂e

Scope 3 categories were scaled proportionally to align with the verified total of 122.09 tCO₂e.

6. Results Analysis

6.1 Emissions Intensity

- **Per employee:** 13.12 tCO₂e
- **Per £1M turnover:** 28.92 tCO₂e

6.2 Key Contributors

- Purchased materials and subcontractor emissions dominate Scope 3.
- Fleet fuel use is the largest contributor to Scope 1.

7. Mitigation Actions & Strategy

Actions Completed in 2024

- Installed occupancy sensors and lighting timers
- Began transition to hybrid/electric company cars

Planned Actions (2025-2030)

- Install LED lighting across offices
- Install PV panels and battery storage

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- Transition commercial vans to hybrid/electric
- Implement route optimisation software
- Introduce carpool incentives and flexible working
- Engage suppliers on embodied carbon reduction

8. Verification & Assurance

- Data processed using Sustainability Action's carbon calculator
- No third-party verification undertaken for 2024
- External limited assurance planned for 2025 onwards

9. Conclusion

Ventol Ltd is committed to reducing its environmental impact and aligning with the UK's 2050 Net Zero target. This baseline assessment provides a clear starting point for emissions reduction and improved ESG performance.

10. Appendices

Appendix A - Emission Factors

- DEFRA 2024 GHG Conversion Factors

Appendix B - Raw Activity Data

- Diesel use: 9,800 litres
- Electricity use: 38,000 kWh
- Natural gas use: 12,400 kWh
- Commuting mileage: 92,000 miles
- Waste: 5 tonnes mixed general

Appendix C - Glossary

- CO₂e: Carbon dioxide equivalent
- tCO₂e: Tonnes of CO₂e
- Scope 1, 2, 3: GHG Protocol emission categories