



CARBON NET ZERO MANAGEMENT PLAN

# Leading Environmental Solutions Ltd

GHG Emissions Inventory & Reduction Strategy

Reporting Period: 01 January 2025 — 01 January 2026

ISO 14064-1:2018

GHG Protocol

PPN 06/21

DEFRA 2026

## Introduction

This Carbon Net Zero Management Plan (CNMP) has been prepared for Leading Environmental Solutions Ltd. It provides a full greenhouse gas (GHG) emissions inventory for the reporting period 01 January 2025 to 01 January 2026, along with a strategy for reducing those emissions towards net zero.

### What is a Carbon Net Zero Management Plan?

A CNMP is a formal document that measures an organisation's carbon footprint — the total amount of greenhouse gases it produces — and sets out a clear plan to reduce those emissions over time. "Net zero" means cutting emissions as close to zero as possible, with any remaining emissions offset through verified schemes.

This report measures emissions in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e). This is a standard unit that allows different greenhouse gases (such as carbon dioxide, methane, and nitrous oxide) to be compared on an equal basis according to their warming effect on the atmosphere.

This report is structured in accordance with internationally recognised standards and frameworks:

### ISO 14064-1:2018

The international standard for quantifying and reporting greenhouse gas emissions. It requires organisations to report across six categories covering all direct and indirect emission sources.

### GHG Protocol Corporate Standard

The world's most widely used greenhouse gas accounting standards, developed by the World Resources Institute. Provides the methodology for calculating emissions from activity data.

### PPN 06/21 Compliance

A UK Government Procurement Policy Note requiring suppliers bidding for major contracts to provide a Carbon Reduction Plan demonstrating commitment to Net Zero by 2050.

### DEFRA/DESNZ Emission Factors 2026

All calculations use official UK Government conversion factors published by the Department for Energy Security and Net Zero, ensuring accuracy and auditability.

## Organisation & Reporting Boundary

The following details summarise the reporting organisation and the boundary of this emissions inventory. The reporting boundary defines which operations, sites, and activities are included in the calculations. This is a requirement of ISO 14064-1 Clause 5 to ensure completeness and transparency.

Organisation Name	Leading Environmental Solutions Ltd	Industry Sector	Property and environmental services contractor
Business Activities	Drainage/plumbing, heating/gas, tanker, electrical, grease management, fire doors, building works, compliance	Registered Address	Dsco, The Tower, The Maltings, Hoe Lane, Ware, Herts, United Kingdom, SG12 9LR
Number of Employees (FTE)	29		
Consolidation Approach	Operational Control	Is This the Base Year?	Yes — baseline period for future comparison
Emission Factor Dataset	DEFRA/DESNZ 2026	Reporting Period	01 January 2025 — 01 January 2026

### Understanding Scopes & ISO 14064-1 Categories

Under ISO 14064-1, emissions are grouped into six categories. In simpler terms, these are often referred to as "scopes":

- Scope 1 (Category 1): Direct emissions from sources your organisation owns or controls — such as fuel burned in company vehicles, gas heating, and refrigerant leaks.
- Scope 2 (Category 2): Indirect emissions from the electricity, heat, or steam you purchase — essentially, the carbon cost of keeping the lights on.
- Scope 3 (Categories 3-6): All other indirect emissions in your value chain — business travel, employee commuting, waste disposal, purchased materials, water use, and supply chain activities.

SCOPE 1 — DIRECT

**246.3 tCO<sub>2</sub>e**

Fuel, fleet vehicles, refrigerants

SCOPE 2 — ENERGY

**0.8 tCO<sub>2</sub>e**

Purchased electricity & EV charging

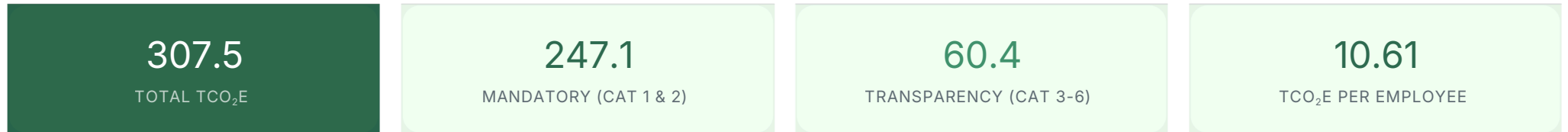
SCOPE 3 — VALUE CHAIN

**60.4 tCO<sub>2</sub>e**

Travel, waste, materials, supply chain

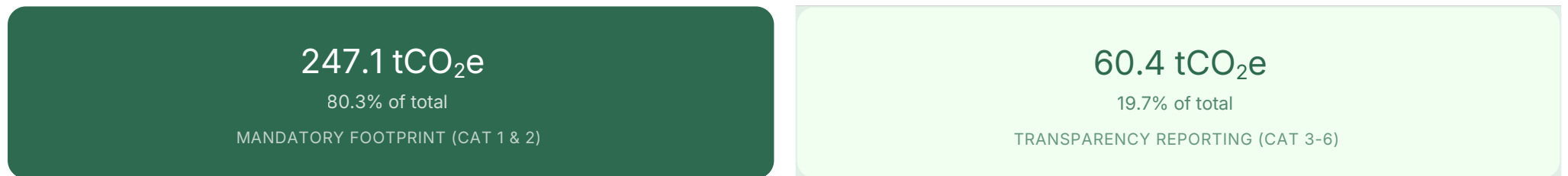
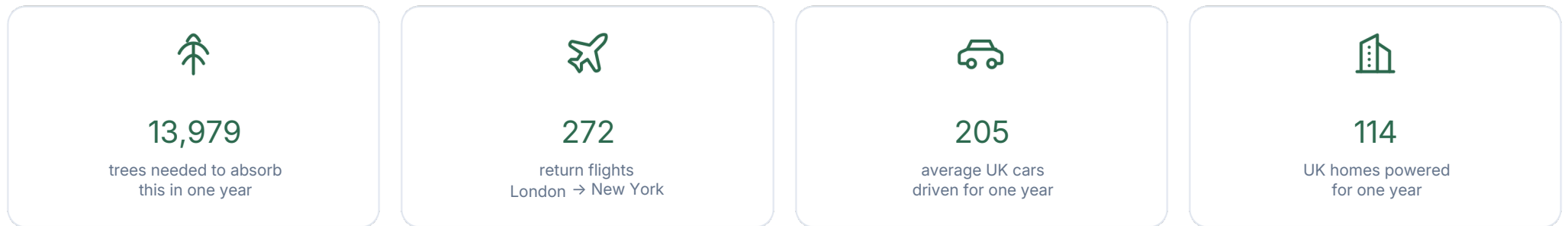
## Emissions Summary

The figures below represent the total greenhouse gas emissions for Leading Environmental Solutions Ltd during the reporting period. The "mandatory" total (Categories 1 & 2) represents the emissions that must be offset to claim carbon neutrality. The "transparency" total (Categories 3-6) represents wider value chain emissions reported for full disclosure under ISO 14064-1.



### To Put This in Perspective

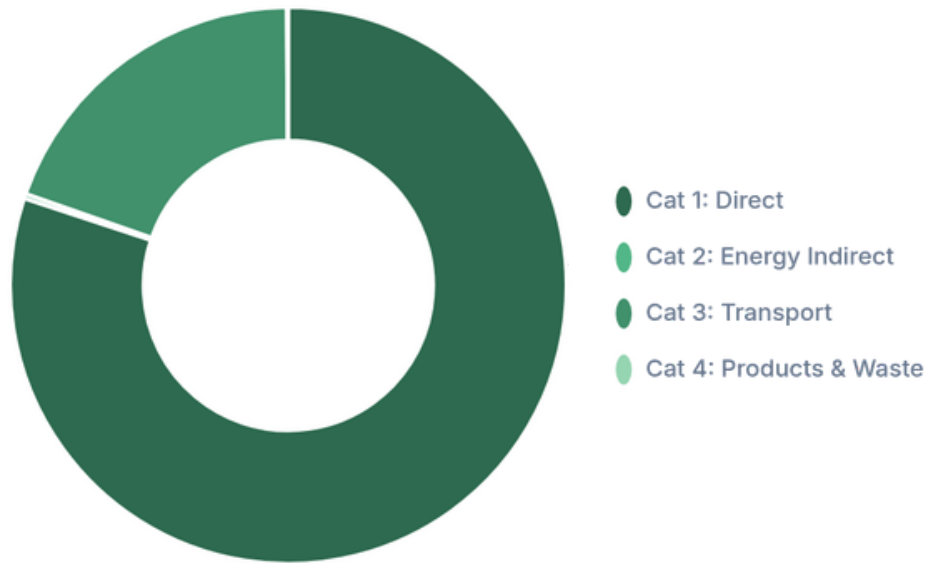
The numbers above can be hard to visualise. The equivalencies below show what 307.5 tCO<sub>2</sub>e looks like in real-world terms:



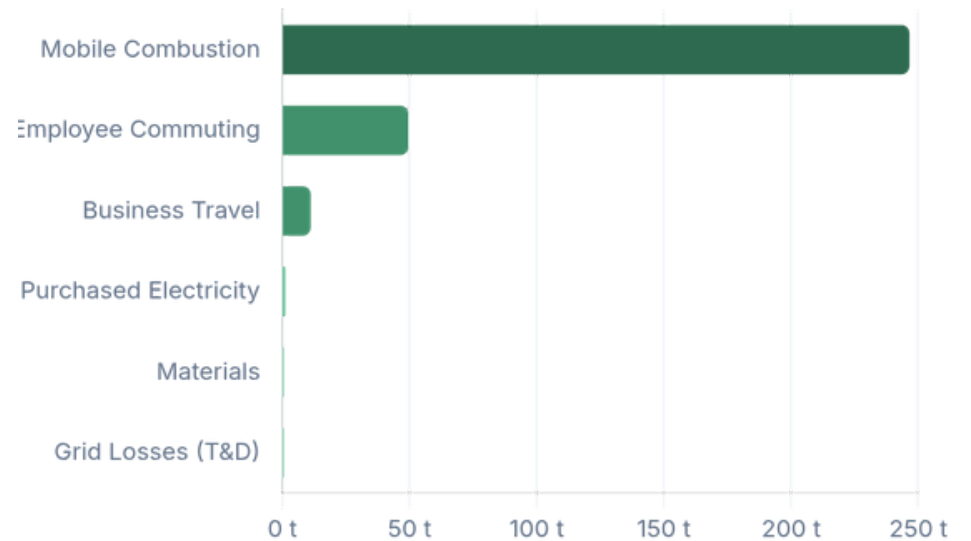
## Emissions Breakdown

The charts below show where emissions come from. The donut chart shows the split between ISO 14064-1 categories, while the bar chart highlights the biggest individual emission sources — helping to identify where reduction efforts will have the greatest impact.

Emissions by ISO 14064-1 Category



Top Emission Sources (Ranked)



### Emissions Intensity

**Per Employee:** 10.61 tCO<sub>2</sub>e per full-time equivalent (FTE) employee. This metric allows meaningful comparison with organisations of different sizes and is a key performance indicator for tracking carbon efficiency improvements over time.

**Per £m Turnover:** 110.77 tCO<sub>2</sub>e per million pounds of revenue. This revenue-normalised figure helps benchmark against industry peers.

## Detailed GHG Inventory

A full line-by-line breakdown of every emission source by ISO 14064-1 category. Gas breakdown columns show CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O individually. Data Quality ratings per ISO 14064-1 Clause 6.2.

ISO CATEGORY / SOURCE	TCO <sub>2</sub> E	TCO <sub>2</sub>	TCH <sub>4</sub>	TN <sub>2</sub> O	% TOTAL	QUALITY
Category 1: Direct Emissions						
1.1 Stationary Combustion	<i>Excluded — Not Applicable</i>					Not Applicable
1.2 Mobile Combustion	246.2617	244.7857	0.005686	1.47029	80.1%	High
1.3 Fugitive Emissions	<i>Excluded — Not Applicable</i>					Not Applicable
<b>Category 1 Total</b>	<b>246.3</b>				<b>80.1%</b>	
Category 2: Energy Indirect Emissions						
2.1 Purchased Electricity	0.8446	0.8345	0.004295	0.005822	0.3%	High
2.2 EV Charging	<i>Excluded — Not Applicable</i>					Not Applicable
<b>Category 2 Total</b>	<b>0.8</b>				<b>0.3%</b>	
Category 3: Transport Indirect Emissions						
3.1 Business Travel	10.8897	10.8392	0.019076	0.031396	3.5%	High
3.2 Employee Commuting	49.2948	49.0613	0.107374	0.126108	16%	High
<b>Category 3 Total</b>	<b>60.2</b>				<b>19.6%</b>	

## Detailed GHG Inventory (continued)

ISO CATEGORY / SOURCE	TCO <sub>2</sub> E	TCO <sub>2</sub>	TCH <sub>4</sub>	TN <sub>2</sub> O	% TOTAL	QUALITY
Category 4: Products & Material Indirect Emissions						
4.1 Waste Disposal	0	0	0	0	0%	
4.2 Purchased Materials	0.1672	0.1672	0	0	0.1%	High
4.3 Water Supply & Treatment	0	0	0	0	0%	
4.4 Logistics & Freight	0	0	0	0	0%	
4.5 Transmission & Distribution Losses	0.0884	0.0875	0.000382	0.000525	0%	High
<b>Category 4 Total</b>	<b>0.3</b>				<b>0.1%</b>	
Category 5: Downstream Emissions						
5.1 Downstream Leased Assets	0	0	0	0	0%	
<b>Category 5 Total</b>	<b>0</b>				<b>0%</b>	
Category 6: Other Indirect Emissions						
6.1 Homeworking	<i>Excluded — Data Unavailable</i>					Data Unavailable
6.2 Subcontractor Emissions	0	0	0	0	0%	
<b>Category 6 Total</b>	<b>0</b>				<b>0%</b>	
<b>GRAND TOTAL</b>	<b>307.5</b>	<b>305.7 754</b>	<b>0.136813</b>	<b>1.634141</b>	<b>100%</b>	

## Exclusion Log

ISO 14064-1 requires transparent justification for any excluded emission categories. The table below documents each exclusion and forms part of the formal audit trail, to be reviewed in future reporting periods.

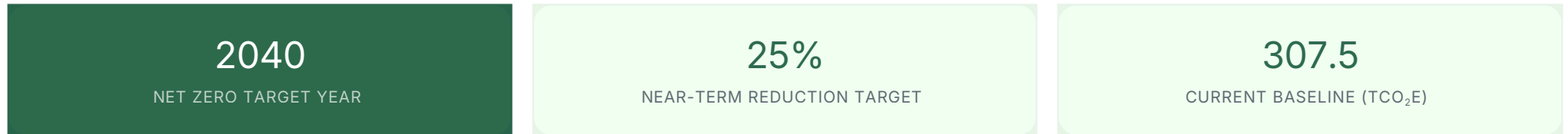
EMISSION CATEGORY	EXCLUSION TYPE	JUSTIFICATION
1.1 Stationary Combustion	Not Applicable	This source does not apply to the organisation's operations and generates zero emissions within the reporting boundary.
1.3 Fugitive Emissions	Not Applicable	This source does not apply to the organisation's operations and generates zero emissions within the reporting boundary.
2.2 EV Charging	Not Applicable	This source does not apply to the organisation's operations and generates zero emissions within the reporting boundary.
4.1 Waste	Not Applicable	This source does not apply to the organisation's operations and generates zero emissions within the reporting boundary.
4.3 Water	Outside Operational Control	Falls outside the organisation's operational control boundary per ISO 14064-1. The organisation does not control operating policies for these activities.
4.4 Logistics & Freight	Data Unavailable	Reliable activity data is not currently available. Data collection processes will be established for future reporting periods.
5.1 Downstream Use	Outside Operational Control	Falls outside the organisation's operational control boundary per ISO 14064-1. The organisation does not control operating policies for these activities.
6.1 Homeworking	Data Unavailable	Reliable activity data is not currently available. Data collection processes will be established for future reporting periods.
6.2 Subcontractors	Data Unavailable	Reliable activity data is not currently available. Data collection processes will be established for future reporting periods.

### Base Year Recalculation Policy

Per ISO 14064-1 and PPN 06/21, the base year will be recalculated if significant changes occur: structural changes (mergers, acquisitions, divestments); methodology changes that materially alter the baseline; significant historical data errors; or reporting boundary changes. Recalculation threshold: ±5% cumulative impact on total emissions.

## Decarbonisation Roadmap

This section outlines the organisation's strategy for reducing greenhouse gas emissions over time. In line with PPN 06/21 requirements, the plan sets out a clear net zero target, near-term reduction goals, and specific initiatives to achieve those goals. Progress against these targets will be tracked annually.



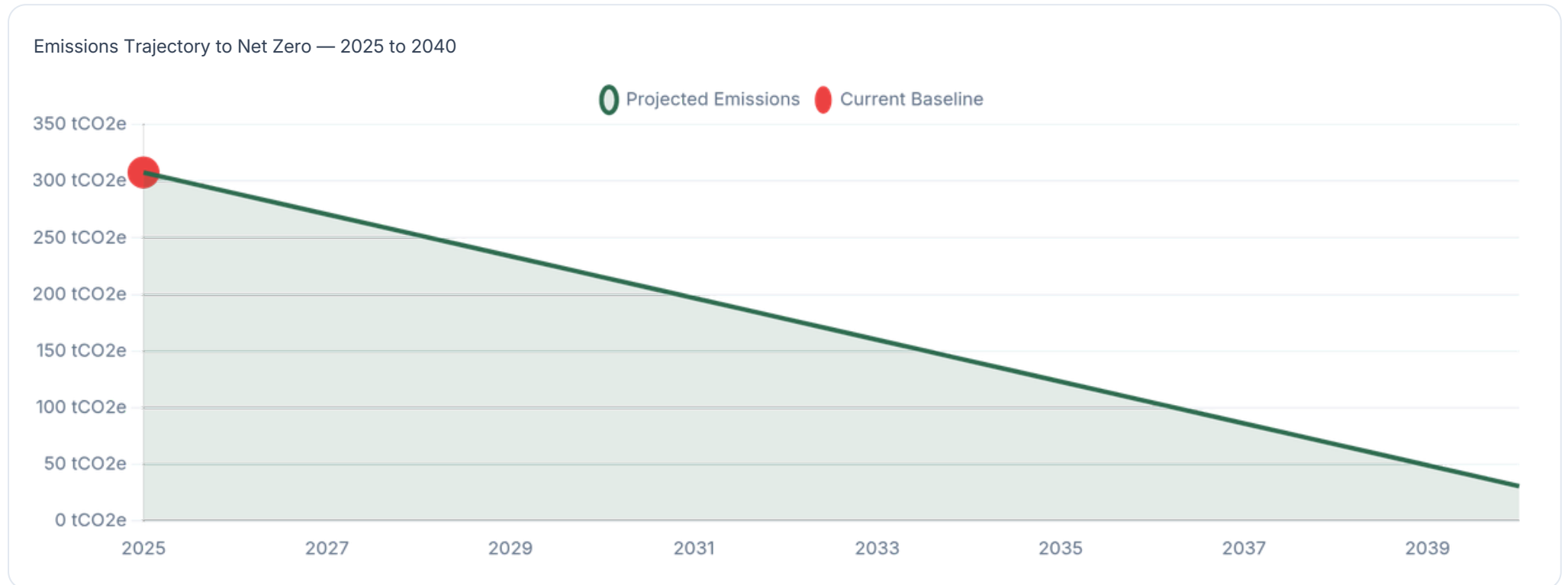
### Strategic Initiatives

The following actions have been identified to reduce emissions. Each initiative is categorised by its current status and expected timeline for implementation.

<p><b>Efficiency Tech - telematics &amp; driver training to reduce fuel consumption</b> Category 1: Direct Emissions</p>	<p>In Progress</p>	<p>Immediate (Current Year)</p>	<p><b>Smart Controls - thermostats &amp; LED lighting across all facilities</b> Category 2: Energy Indirect</p>	<p>In Progress</p>	<p>Immediate (Current Year)</p>
<p><b>Virtual First meetings - prioritise virtual meetings to reduce business travel</b> Category 3: Transport</p>	<p>In Progress</p>	<p>Immediate (Current Year)</p>	<p><b>Supply Chain Engagement - engage top 10 suppliers on sustainability</b> Category 4: Products &amp; Waste</p>	<p>Not Started</p>	<p>Short-Term (1-2 Years)</p>
<p><b>Efficiency in Design - specify high-efficiency products and designs</b> Category 5: Downstream</p>	<p>In Progress</p>	<p>Immediate (Current Year)</p>	<p><b>Remote Work Efficiency - guidance on energy efficiency for home workers</b> Category 6: Other Indirect</p>	<p>Not Started</p>	<p>Immediate (Current Year)</p>

## Projected Emissions Trajectory

The chart below shows a modelled pathway from the current emissions baseline to the net zero target year of 2040. The trajectory assumes a linear reduction of approximately 90% from the baseline, with the remaining 10% addressed through verified carbon offsets or removals. This model will be updated annually as actual reduction data becomes available.



### Understanding This Projection

This trajectory is a planning tool, not a guarantee. The projected line shows the pace of reduction needed to reach net zero. In practice, reductions may come in steps as specific initiatives take effect — for example, switching to renewable energy may cause a significant one-off reduction. The red dot represents the current measured baseline. As more reporting periods are completed, actual measured emissions will be plotted alongside this projection.

## Methodology & Technical Notes

This section provides the technical detail behind the emissions calculations as required by ISO 14064-1 Clause 6. It explains the standards followed, the data sources used, and the level of uncertainty in the figures. This information ensures the report can be independently verified.

### Calculation Approach

**Cat 1 — Direct:** Fuel consumption × DEFRA emission factors. Refrigerant fugitive emissions use GWP values per gas type.

**Cat 2 — Energy Indirect:** Purchased electricity (kWh) × UK grid average factor (location-based per GHG Protocol Scope 2). EV charging calculated separately.

**Cat 3 — Transport:** Distance-based DEFRA factors per mode (car, rail, flights with radiative forcing). Commuting uses distance and mode data.

**Cat 4 — Products:** Waste by weight/disposal method. Materials use life-cycle factors. Water by volume. Logistics by vehicle-mile. T&D losses as % of purchased electricity.

**Cat 5 — Downstream:** Leased asset electricity and refrigerant top-ups. **Cat 6 — Other:** Homeworking per employee-hour. Subcontractor footprints apportioned by allocated work percentage.

### Quantification Methods (ISO 14064-1 Clause 6.2)

**Type A (Calculation):** Activity data × emission factor — primary method for this inventory. **Type B (Measurement):** Direct monitoring — not currently used. **Type C (Estimation):** Proxy/financial data — used for some Cat 6 subcontractor emissions.

### Global Warming Potentials (IPCC AR5)

All gases converted to CO<sub>2</sub>e using AR5 values: CO<sub>2</sub> = 1, CH<sub>4</sub> = 28, N<sub>2</sub>O = 265, HFCs = variable by gas type.

### Data Quality & Uncertainty

Uncertainty: ±5% for Cat 1-2 (metered data), ±15% for Cat 3-6 (estimates/averages). Quality rated "High" for measured data (utility bills, fuel receipts), "Medium" or "Low" for estimates.

### Verification Status

Prepared using Sustainable Contractor with DEFRA/DESNZ 2026 factors applied automatically. Follows ISO 14064-1 methodology. Third-party verification to ISO 14064-3 may be sought at the organisation's discretion.

### Biogenic Emissions (ISO 14064-1 Clause 6.5)

Biogenic CO<sub>2</sub> reported separately per ISO 14064-1. For this period: zero or negligible — no biomass, biofuels, or biogas combusted.

## Declaration & Sign-Off

By signing this document, the organisation formally adopts this Carbon Net Zero Management Plan (CNMP) as its official climate strategy. This declaration confirms the accuracy of the data presented and commits the organisation to the reduction targets outlined within this report.

### Board-Level Commitment Statement

**Commitment to Net Zero:** We confirm our commitment to achieving Net Zero greenhouse gas emissions by 2040 in accordance with UK Government PPN 06/21 requirements and the Paris Agreement goals.

**Accuracy of Data:** We certify that the emissions inventory and reduction measures described in this report represent the genuine intentions and current operational reality of the organisation to the best of our knowledge and belief.

**Continuous Improvement:** We acknowledge that these commitments form part of our official audit trail and that we will provide evidence of progress during future reporting cycles. We will update this plan annually and recalculate our baseline if significant organisational changes occur.

**Scope 3 Engagement:** We commit to working with our supply chain partners to improve the quality and coverage of indirect (Scope 3) emissions data over time, and to encourage our suppliers to develop their own carbon reduction plans.

---

AUTHORISED SIGNATORY

Kim Hawkins

ROLE / POSITION

Client Services Director

DATE OF ADOPTION

12 February 2026

Document Version 1.0 — Generated 16 February 2026  
Next scheduled review: 12 months from date of adoption

This report was generated by Sustainable Contractor