Korbuild Ltd – Carbon Reduction Plan

Purpose & Commitment

- Aim: Deliver sustainable construction projects in South Wales while achieving **Net Zero carbon by 2050**.
- Baseline emissions recorded in 2022; annual monitoring and reporting are now in place.
- Directors committed to resourcing and delivering carbon reduction initiatives across operations and supply chain.

Emissions Reporting Baseline

Year – 2022

- **Scope 1:** 27.65 tCO$_2$e
- **Scope 2:** 1.48 tCO$_2$e
- **Scope 3:** 17.31 tCO$_2$e
- **Total:** 46.43 tCO$_2$e

Reporting Year – 2024
- **Scope 1:** 23.64 tCO$_2$e (↓ **14.5%**)
- **Scope 2:** 1.46 tCO$_2$e (↓ **1.35%**)
- **Scope 3:** 26.01 tCO$_2$e (↑ **50.3%**)
- **Total:** 51.11 tCO$_2$e (↑ **10.1% overall**)

Reason for Increase in Total Emissions (2022–2024)

From 2022 to 2024, Korbuild's turnover grew from **£6m to £10m** — an increase of **66.7%**. This business growth resulted in:
- Increased number and scale of projects.
- Higher workforce numbers, leading to greater commuting emissions.
- More site activity and production output, increasing Scope 3 emissions from materials, waste, and supply chain activity.

Despite this substantial increase in business activity, our largest carbon source — Scope 1 (direct emissions from fuel use and company operations) — has reduced by 14.5% through greater management, improved operational practices, and more effective monitoring and reporting.

While total emissions rose, **carbon intensity per £1m turnover reduced**, demonstrating efficiency improvements despite expansion.

Korbuild Ltd – Emissions & Turnover Comparison (2022 vs 2024)
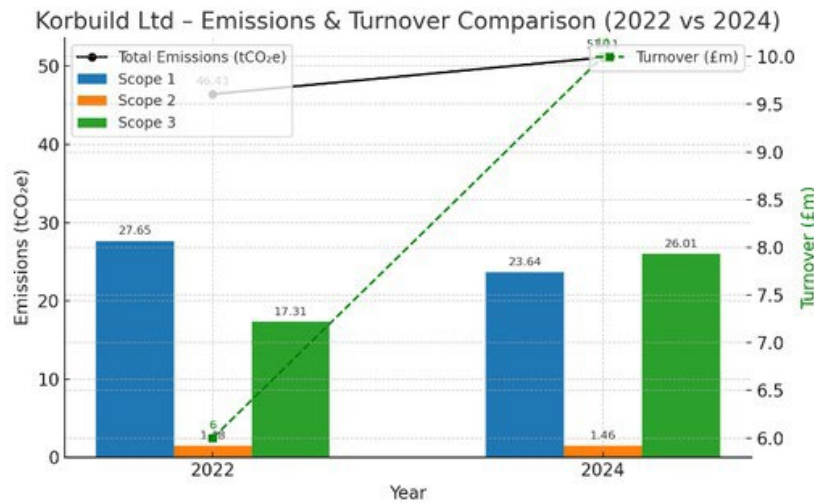
Despite a 66.7% increase in turnover (from £6m to £10m) between 2022 and 2024, Korbuild achieved a 14.5% reduction in Scope 1 emissions through improved management, monitoring, and operational efficiency.

Key Strategies & Actions Data &

Reporting

- Daily carbon data recording by Project Managers; monthly review by "Waste Champion."
- Annual emissions data submitted and reported via the Supply chain school reporting tool.
- Annual reporting aligned with **GHG Protocol**.

Operational Changes

- **Fleet:** Target 50% electric management vehicles by 2030; Green Car Scheme for staff.
- **Plant & Equipment:** Phased introduction of electric/hybrid machinery; energy storage systems (Volt pack) for welfare with zero emissions.
- **Site Energy Efficiency:** Battery storage units, flywheel tech, solar- powered welfare cabins, energy management systems, LED/PIR lighting.
- **Water Savings:** Rainwater harvesting; awareness campaigns to reduce usage.
- **Digital Transformation:** Paperless systems via OpenSpace & Field view.

Supply Chain & Scope 3

- Engage subcontractors/suppliers to share environmental measures.
- Capture data on transport, materials' embodied carbon, waste, commuting, hotel stays, and other value chain emissions.
- Supply chain training via Sustainability School.

Waste & Materials

- Waste champions on projects to avoid/reduce waste.
- Annual review of top 5 Scope 3 sources to implement reduction plans.
- Single-use plastic avoidance strategy.

Emissions Reduction Targets

- Improve data collection tools & systems.
- Reduce energy demand via efficiency measures.
- Increase renewable energy use.
- Electrify fleet as current vehicles depreciate.
- Roll out eco-friendly site cabins across all sites.

Engagement & Awareness

- All staff inducted into Environmental Management System.
- Monthly seminars to share initiatives.
- Ongoing training on environmental best practice.
- Collaboration with clients for low-carbon solutions.

Review & Governance

- Plan reviewed monthly as part of Environmental Management Plan.
- Signed off by Managing Director (Dec 2025).
- Fully compliant with **PPN 06/21** and relevant reporting standards.

Reviewed by: Sarah Bunt
Position: Finance Director
Date: 31.05.25
Next Review Date: 31.01.2026
Signature: _____