



Korbuild Ltd.

Carbon Reduction Plan December 2022-2023.

Extracted from
CPHSP/TMP/NMP/EMP.
January 2024.



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1. Introduction

Our Carbon Reduction Plan has been developed to encourage and deliver ongoing year on year improvements in Korbuilds environmental performance. The CRP identifies what impact our activities will have on the environment by recording our own impacts and asking our subcontractors and suppliers to provide details of the environmental management measures in place when fulfilling the contract.

2. **Korbuild Our Purpose.**

Korbuilds purpose is to sustainably deliver our construction projects within the South Wales region. We are a growing construction company providing new build and refurbishment construction services within the South Wales area. Korbuilds construction family provide high levels of technical experience, utilising the latest building methods, innovations and technology to ensure we offer the best value for our Client's in a sustainable manner.

Since our inception Korbuild has recorded carbon emissions on individual construction projects via our Environmental Management Plans. Due to our ongoing growth and company development 2022 will be the first annual collation of the information to provide reduction reports for review and target setting.

3. **Building for a Sustainable World.**

Korbuild is committed to sustainability and is constantly working to embrace new technology and innovation on our journey to achieve net zero carbon.

4. **Recording, Reporting Standards and Scope.**

Recording of carbon emissions is a vital part of our Project Managers duties and is undertaken daily. Reporting of the recordings is collated and reviewed at Monthly Meetings chaired by our, "Waste Champion". Reporting The calculation of Korbuilds carbon footprint is in line with the Greenhouse Gas Protocols.

Accurate monitoring and review is to be undertaken on an annual basis and independently checked by our external consultants Greenhat Limited.

5. Our commitment to achieving net zero carbon, (initiatives and ongoing improvements).

The directors at Korbuild are committed to achieving net zero carbon emissions and will provide the resources necessary to undertake and complete this task.

Initiatives new for 2024 include a commitment to the provision of 75% electric vehicles for the management fleet and the continued phased introduction of electrical plant to all our construction sites.



Many of our recent projects have utilized site power packs supplied by voltpak. These energy storage have provided both sites with sustainable power for site welfare systems with no diesel, no emissions and no noise. In addition to providing site power these energy storage systems will also have the added advantage of providing charging points for the new excavators.

2024 has brought the introduction of numerous energy saving solutions across our projects, including:

- Battery storage units, reducing generator sizing and run time.
- Flywheel, reducing generator sizing required for tower crane and hoist operation and associated fuel use.
- Energy Management System, managing and avoiding energy wastage within our site accommodation, reducing electricity consumption.
- EcoPro Solar Welfare cabin trialled in CT – no fuel used in back-up generator +
- Rainwater harvesting (with filters) negated need for potable water in welfare toilets.

6. 2022 information will act as the baseline year.

Carbon Reduction Plan.

Supplier name: Korbuild Limited

Publication date: 29/1/24

Commitment to achieving Net Zero

Korbuild Ltd is committed to achieving Net Zero emissions by 2050.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2022	
Additional Details relating to the Baseline Emissions calculations.	
First Reporting year. Baseline emissions recorded.	
Baseline year emissions: 2022	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	27.65
Scope 2	1.48
Scope 3 (Included Sources)	17.31

Total Emissions	46.43
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Current Emissions Reporting

Reporting Year: N/A – baseline figures reported above as first reporting year.	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	XX
Scope 2	XX
Scope 3 (Included Sources)	XX
Total Emissions	XX

Emissions reduction targets

As this is our first reporting/baseline year, below details our commitments to date on carbon reduction targets.

- Adoption of LED/PIR lighting controls
- Car sharing when multiple staff visiting sites at any one time to reduce CO2 emissions
- Digital innovations implemented and bespoke software introduced such as openspace and fieldview enabling us to be paperless.
- All staff are members of the sustainability school, regularly updated and trained on environmental and sustainability improvements.
- ISO 14001 certified since 2014

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The environmental management measures and projects have been completed or implemented since the 2022 baseline. The carbon emission reduction achieved by these will be recorded and measured against the 2022 baseline and the measures will be in effect when performing future contracts.

In the future we hope to implement further measures such as:

Electrification of the company fleet when current fleet depreciates.

Electric machinery used on site where possible, alternatively hybrid if required.

Eco friendly site cabins to be supplied to sites.

Manage and record waste on sites

Introduce PPE recycling stations on sites

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:

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Date:

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³<https://ghgprotocol.org/standards/scope-3-standard>

7. Scope 3 carbon (value chain).

In developing our pathway to net zero, we have reviewed our scope 3 carbon emissions categories and have aligned to the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard and the ENCORD Construction CO₂e Measurement Protocol. New processes are being introduced to facilitate the capture of this data, and plans are ongoing to improve the accuracy of this data and ensure industry consistency in supply chain data requests.

The list below shows our existing scope 3 emissions categories and how these deliver the requirements of the CRP in relation to scope 3 reporting. In addition to these emissions categories, Korbuild will also be measuring and reporting on carbon emissions from employees working from home, commuting mileage not paid for by the business and hotel stays.

Relevant Korbuild scope 3 carbon emissions reporting categories

Upstream transportation and distribution, Vehicle fuel, Public transport, Waste, Materials embodied carbon, Employees, Waste generated in operations, Construction, demolition and excavation waste, Business travel, Car allowance & private mileage paid for by Korbuild, Public transport, Employee commuting, Public transport.

9. Emissions reduction targets

- Monitor, review, assess and improve the processes, tools and systems for carbon emission data collection.
- Implement energy and carbon reduction and efficiency measures to reduce energy demand.
- Identify and implement measures to increase generation and use of renewable energy.

We are constantly considering the scope and range of activities for our overall operations throughout our business and have created a clear route to net zero for our business. This allows us to focus on priority activities for reducing energy consumption, improving energy efficiency, implementing renewable energy and fuel options.

10. Environmental Management Measures – Korbuild Limited.

The following existing measures apply to all Korbuild LTD Projects.

Our environmental management plan (EMP) includes policies, standards, guidance and processes to identify and reduce environmental impacts, including carbon emissions.

11. Communication and engagement strategy.

All members of the team are inducted into the environmental management system and actively encouraged to contribute and engage. Monthly seminars have resulted in numerous initiatives including the following.

Fleet improvements

- Introduction of a higher proportion of electric and hybrid vehicles
- Introduction of employee Green Car Scheme.

Project by project improvements

- Installation of LED lighting to site offices, head office premises and operational sites.
- Minimum environmental standard in place for site accommodation.
- Use of Battery Storage Units alongside generators, 2024.
- Launched a waste champion for each project steering procurement, commercial and environmental teams to identify opportunities to avoid waste through supply chain engagement and waste costing
- Developing a training schedule for our supply chain, using in-house training and Supply Chain Sustainability School resources. Considerate Constructors.
- Internal training matrix to increase awareness of climate related matters
- Ongoing updates to our whole life carbon how to guide, adding experiences, case studies, and best practice to deliver value to our clients
- Reviewing subcontract orders, pre-order and pre-start documents to improve carbon sustainability requirements and improve performance monitoring.
- Introduction of our idling Policy.
- Complete waste reviews and audits at each contract, highlighting all single use plastics. Produce single use plastic avoidance strategy and awareness campaign.
- Review of all offices and depots to highlight opportunities for water savings. Reduce water use through awareness campaign.
- Enhanced use of telematics on fleet to help drive down speeding and idling.
- Annual review of Scope 3 emission sources (i.e. waste, water, materials) and identify 5 key contributing sources of carbon and implement reduction plans.
- Review contract requirements.

12. Declaration and sign-off.

This Carbon Reduction Plan has been compiled as part of Korbuild LTD Environmental Management Plan and will be reviewed on a monthly basis.

We are committed to the recording of emissions in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and scope 2 emissions have been reported in accordance with SECR requirements. For the 2022 update of this Carbon Reduction Plan, the required subset of scope 3 emissions will be reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (scope 3) Standard.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors.

Name: Signed: Position: Date:

Managing Director 1/12/2023

