CARBON REDUCTION PLAN

June 2025





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Achieving Net Zero

At K2 Architects we

are dedicated to achieving Net Zero. We plan to halve our emissions by 2030 and cut emissions to zero by 2045.

We recognise the urgent need to address climate change and are committed to taking meaningful actions to reduce our carbon footprint.

Our strategy includes improving energy efficiency, investing in renewable energy, minimising waste, and promoting sustainable practices throughout our operations.



As a Certified B Corporation, we are committed to transparency in our efforts and will annually report on our progress toward achieving Net Zero.

Baseline Emissions

Baseline Year: 1st April 2022 – 31st March 2023

Additional Details relating to the Baseline Emissions calculations.

This was the first time we calculated our carbon footprint, so it established our baseline. It is based on our financial accounting year of April 2022-March 2023. Our Baseline calculation includes:

Scope 1: Direct Emissions

Scope 2: Indirect Emissions

Scope 3 Categories:

- 1: Purchased goods and services:
- 2: Capital goods
- 3: Fuel and energy-related activities
- 4: Upstream transportation & distribution
- 5: Waste generated in operations
- 6: Business travel/Hotel stays
- 7: Employee commuting/Teleworking
- Our Baseline deviates from the requirements under PPN 06/21 as follows:

Scope 3 Categories: 9: Downstream transportation & distribution are marked as zero as we do not sell products, we sell services (our time).

Baseline	year	emissions:	
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EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	1.64 (tCO ₂ e)
Scope 2	14.35 (tCO2e)
Scope 3 (Included Sources)	36.25 (tCO2e)
Total Emissions	52.2 (tCO2e)

Current Emissions

Reporting Year: 1 st April 2024 – 31 st March 2025		
EMISSIONS	TOTAL (tCO2e)	
Scope 1	0 (tCO2e)	
Scope 2	3.5 (tCO2e)	
Scope 3 (Included Sources)	20.2 (tCO2e)	
Total Emissions	23.7 (tCO2e)	

Total Scope Breakdown 2024		
Scope	Total metric tons of CO ₂ e	
Scope 1	0.0	
Scope 2	3.5	
Scope 3	20.2	



	Description	Metric tons of CO ₂ e
acope 1	Office emissions (gas)	0.0
	Other Scope 1 emissions	0.0
z adooc	Office emissions (electricity)	3.5
	Homeworker electricity emissions (home office)	0.0
	Homeworker electricity emissions (air-conditioning)	0.0
	Homeworker gas emissions	0.0
	Diesel emissions (commute)	1.5
	Petrol emissions (commute)	0.3
	Hybrid emissions (commute)	0.0
	Motorbike emissions (commute)	0.0
	Train emissions (commute)	9.4
c a	Bus emissions (commute)	0.0
	Taxi emissions (commute)	0.0
300	Train emissions (in work travel)	1.3
	Diesel emissions (in work travel)	1.6
	Petrol emissions (in work travel)	3.4
	Hybrid emissions (in work travel)	0.0
	Bus emissions (in work travel)	0.0
	Taxi emissions (in work travel)	0.1
	Plane emissions	0.0
	Hotel emissions	0.0
	Additional estimates for purchases of goods and service	2.5
	Other Scope 3 emissions	0.0
I otal emissions	Company CO ₂ Emissions (tons)	23.63
	Average CO ₂ Emissions per person (tons)	1.688
	Average CO ₂ Emissions per person per day (kgs)	7.34

Reduction Targets

To continue our progress toward achieving Net Zero, we have adopted the following carbon reduction targets. We project that carbon emissions will decrease by 1.8 tCO2e per year or 9 tCO2e over the next five years. If we continue this trajectory of reducing our emissions by 9 tCO2e every five years, we will be **Net Zero by the year 2045**.

2022-2023 = 52.2 tCO2e 2023-2024 = 36.1 tCO2e 2024-2029 = 27.1 tCO2e 2029-2034 = 18.1 tCO2e 2034-2039 = 9.1 tCO2e 2039-2044 = 0.1 tCO2e



Current Reduction

The following environmental management measures have been completed or implemented since the 2023–2024 report. These efforts resulted in a carbon emission reduction of 12 tCO2e, a 34% decrease from last year.

Energy Consumption – In 2024, we switched our energy contract to fellow B Corp, Good Energy, ensuring that 100% of our electricity now comes from renewable and low-impact sources.

Waste Management – We are working with our landlord to gather data on waste generation and improve office waste management, including general waste, recycling, and, starting in 2025, food composting.

Purchased Goods and Services – We are collating a list of local, sustainable, and Certified B Corp

suppliers for office goods to reduce emissions from production and transportation.

Employee Commuting – All staff live in the Liverpool City Region, with many able to walk or cycle to work. Our centrally located office is accessible by public transport, and we participate in both the Merseytravel train pass and Evans cycle-to-work schemes to encourage sustainable commuting.

ISO 14001 – K2 Architects maintains ISO 14001 Environmental Management System certification, providing robust governance and third-party verification.

We've reduced emissions by 34% through renewable energy, improved waste practices, & low-carbon commuting

Future Reduction

The following environmental management measures will be implemented over the coming years. The carbon emission reduction achieved by these schemes will equate to a reduction of 9 tCO2e every five years.

ISO 14001 - Add carbon reduction as an environmental aspect and ensure ISO data collected aligns with CRP Calculations.

Office Premises - Continue to work with the Landlord to upgrade the office and make the building more energy efficient.

Water Usage - We hope to work with our landlord to discuss options for rainwater harvesting.

Employees – As the practice grows, we will revisit the plan, game out different scenarios, and build new net zero operating models based on what we have learned.

Carbon Offsetting - We will review initiatives, such as planting trees and supporting other sustainable projects to absorb and offset any remaining CO2.

We're committed to ongoing improvement, with future plans to cut emissions through more sustainable practices

<u>Building Design Emissions</u>

As architects, we play a crucial role in mitigating climate change and promoting social inclusivity through the scale and reach of our projects. When clients prioritise sustainability and invest in green building practices, the collective impact on reducing emissions and promoting environmental sustainability is exponentially greater than what we can achieve through our operations alone.

Our clients must be committed to delivering sustainable outcomes to maximise our potential impact. While challenges exist—such as higher upfront costs, resistance to change, and the complexity of integrating sustainable practices these can be overcome. By framing sustainability as a strategic business decision rather than simply an ethical choice, we can help clients recognise its long-term value.

We highlight the benefits of sustainability through strategies such as demonstrating cost savings from energy efficiency, improved occupant wellbeing, increased asset value, and compliance with regulations and incentives. We also emphasise how it supports corporate responsibility, brand reputation, and market competitiveness. Through case studies, ROI analyses, and tailored workshops, we communicate that sustainability is not just a trend but a smart, forward-looking business decision.

Our Approach

K2 Architects' approach to delivering sustainable and equitable building design aligns with the principles set out in the RIBA Sustainable Outcomes Guide, which offers advice on achieving the UN Sustainable Development Goals (SDGs). The guidance provides practical strategies for architects and clients to achieve successful outcomes for their building projects in nine of the UN's 17 SDGs. These SDGs address various social and economic challenges, from climate action to social equity. With the support of our clients, we can align our project objectives with specific SDGs, such as Affordable and Clean Energy (SDG 7), Sustainable Cities and Communities (SDG 11), and Responsible Consumption and Production (SDG 12).



Key Strategie<mark>s</mark>

Every project is a unique

blend of delivery strategies specific to its users and context. However, some of the most common tactics we apply are:

1. Integrated Design Approach

We engage stakeholders early to explore sustainable strategies such as passive design, energy-efficient systems, and renewable materials. These approaches reduce environmental impact while enhancing building performance.

2. Life Cycle Assessment (LCA)

We evaluate the environmental impacts of materials and construction methods over a building's life cycle. This allows us to make informed decisions that minimise carbon footprint and resource depletion, contributing to Sustainable Development Goal (SDG) 12.

3. Community Engagement

We foster inclusive design processes that address local needs and promote social equity (SDG 10). By consulting diverse communities, we create accessible and socially sustainable spaces.

4. Adaptive Reuse and Retrofitting

We promote the adaptive reuse of existing structures and retrofit buildings to improve energy efficiency and resilience (SDGs 9 and 11).

5. Monitoring and Evaluation

We implement post-occupancy evaluations to measure performance against sustainability targets.

This ensures continuous improvement, accountability, and alignment with SDG 17.

By embracing these strategies, we contribute meaningfully to global sustainability efforts and enhance our competitive edge by meeting the growing demand for environmentally and socially responsible design.

As architects, we have the expertise and vision to lead the charge toward a sustainable future, but we cannot do it alone. We need our clients to stand with us, prioritise sustainability, and see beyond the immediate challenges to the profound long-term benefits.



Design Emission Reduction

Improvements in the last 12 months.

We continue to raise client awareness of key environmental certifications, such as BREEAM, to encourage more sustainable project outcomes.

Projects are being delivered in alignment with PAS 2038 principles, supported by two senior team members who recently attained NOCN Level 3 in retrofitting buildings to improve energy efficiency. Staff engagement and training remains a priority. Last year we delivered **20 hours of CPD** (Continuing Professional Development) focused on sustainability and environmental awareness.

For 2025, we plan to implement **Life Cycle Carbon Assessment tools** across our projects to support more informed and sustainable design decisions.

We're driving sustainable designs by training our team, and aligning projects with PAS 2038 and BREEAM certification

Declaration

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

Signed on behalf of K2 Architects Limited:

Date: 09/06/2025



This is to certify that

Kevin Horton

has achieved the following Qualification

NOCN Level 3 Award in Energy Efficiency Measures for Older and Traditional Buildings



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