

Operational Carbon Footprint

Reporting Company	bakergoodchild
Company Number	06442817
Location (s)	6-7 Windsor Industrial Estate, Rupert Street, Birmingham, United Kingdom, B7 4PR
Period Covered	1 st January 2025 – 31 st December 2025
Project Number	BKG01_001
Date	April 2026

Contents

Terms & Definitions	3
Executive Summary	4
Your Carbon Emissions: Intensity Ratios	5
Your Energy Usage: Intensity Ratios	6
Your Water Usage: Intensity Ratios	7
Reduction Strategy	8
Carbon Reduction Ideas	9
Carbon Disclosure	10
Marketing Toolkit: Certification & Label	11
Input Table	12
Results Table: Carbon Footprint	13
Results Table: Energy Usage	14
Results Table: Intensity Ratios	15
Calculation Approach: Operational Carbon Footprint	16
Company Overview	17-19
Contact	20

About this report

The data you have provided has been validated via a series of spot checks, utilising evidence such as utility bills where available. We also compared your results with those of the wider industry and determined that they are in line with expectations. Therefore, we believe that this report accurately depicts your operational carbon footprint.

Nevertheless, since you are more familiar with your business, please verify the data presented in this report carefully. This includes ensuring the data tables are accurate, and that the information we have collected from you is an accurate representation of what occurs within your organisation. Should any results not conform to your expectations, please inform us so we can investigate together.

This report aims to provide an overview of your operational carbon footprint, limited to the emissions associated with the energy and processes you directly control within your building(s) and your company vehicles, where applicable. If you have provided details, it also includes the carbon footprint of your staff when travelling to work, on business trips, or working from home.

The report does not cover the carbon footprint of activities that you do not directly control such as printing substrates, consumables, other goods and services you purchase, sub-contracting, capital goods, waste, external transport, or end-of-life of sold products.

Terms & Definitions



CO₂e

Carbon dioxide equivalent is the standard international measurement of a carbon footprint. That is, the total amount of greenhouse gases, specifically carbon dioxide (CO₂) and other equivalent emissions, that are directly or indirectly associated with an organisation's products or activities.



Scope 1 and 2

Scope 1: Direct emissions from an organisation's-controlled sources, including: on-site fuel combustion, company vehicles, industrial greenhouse gas use, refrigerant leaks.

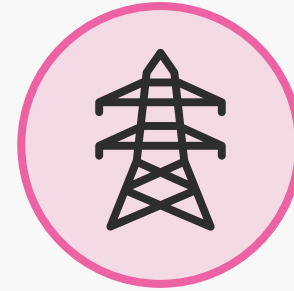
Scope 2: Indirect emissions from purchased electricity, steam, heating, or cooling.



Scope 3

Scope 3: Indirect emissions that are a consequence of your actions but from sources you do not own or control, and which are not classed as Scope 2. These make up 65–95% of most companies' carbon footprint.

Examples of scope 3 emissions are those generated from commuting and purchased goods.



Location vs Market-Based

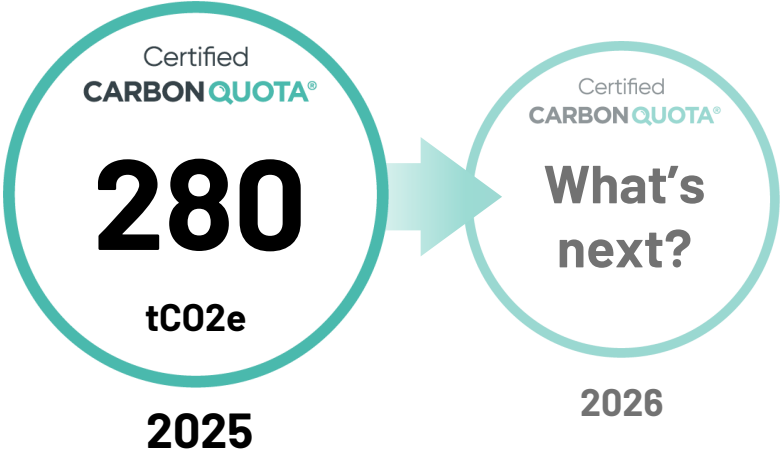
Location-based emissions represent the average emissions intensity of the electricity grid where energy consumption occurs (your facility), independent of the tariff you pay for.

Market-based emissions reflect the emissions associated with electricity purchasing decisions, including supplier-specific factors and renewable energy contracts. While renewable tariffs do not change the physical electricity supplied by the grid, they are accounted for through the market-based approach. Both methods are required under the GHG Protocol and provide complementary perspectives.

Your results are displayed through the market-based approach throughout this report.

Executive Summary

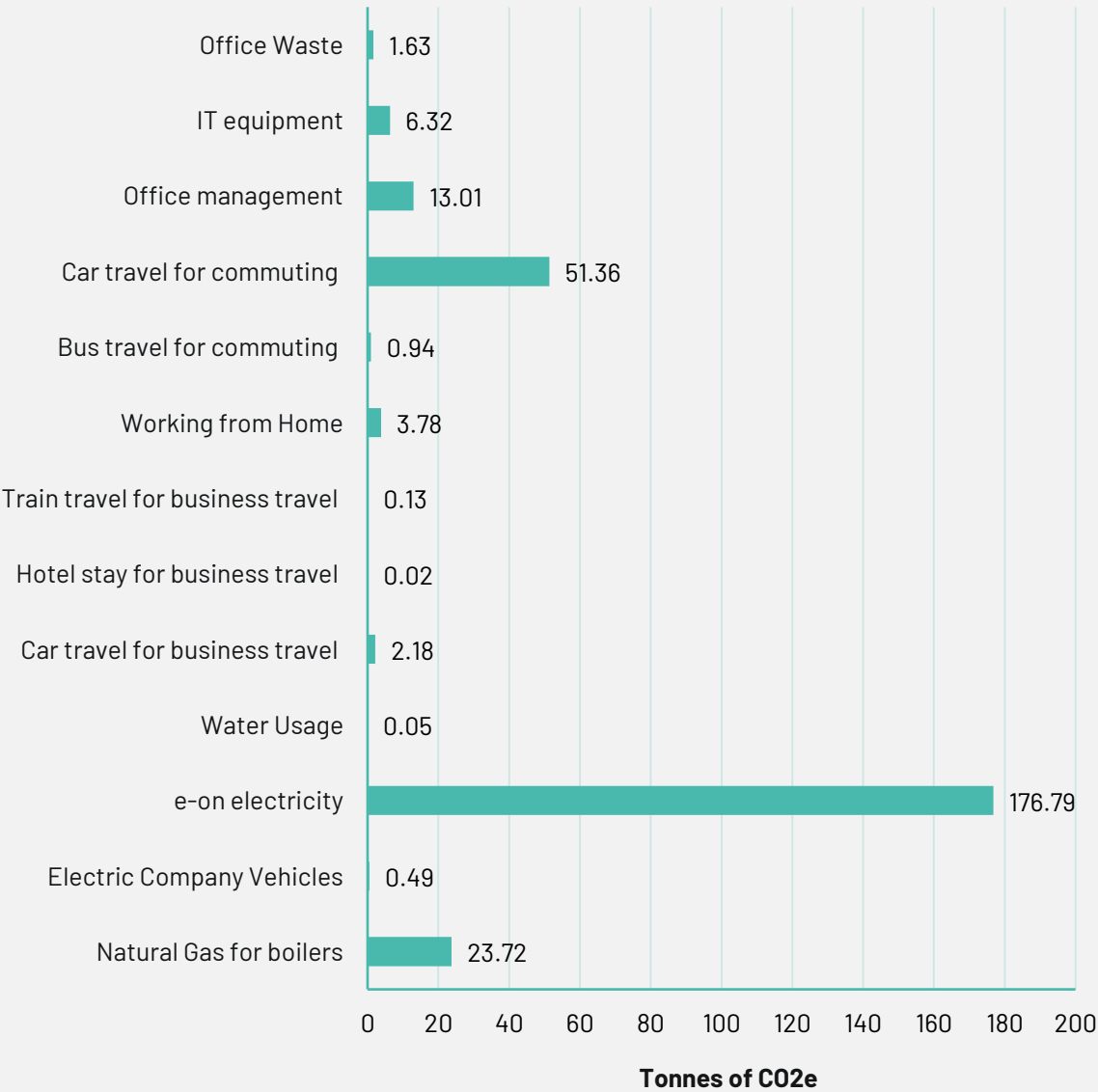
Your Carbon Footprint Overview



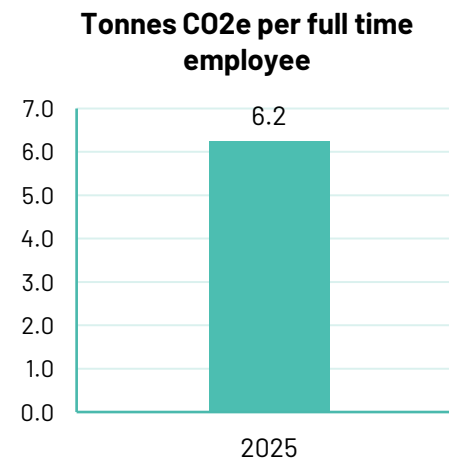
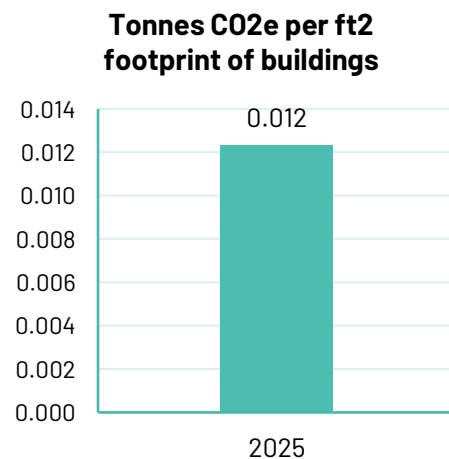
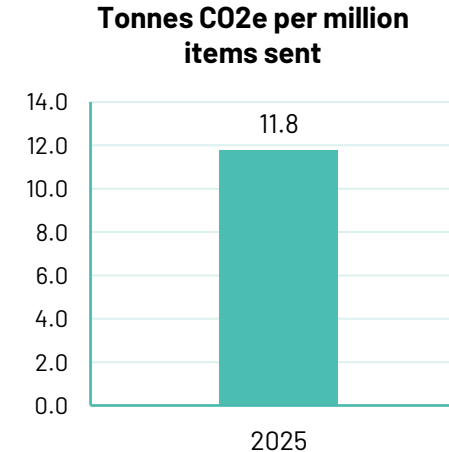
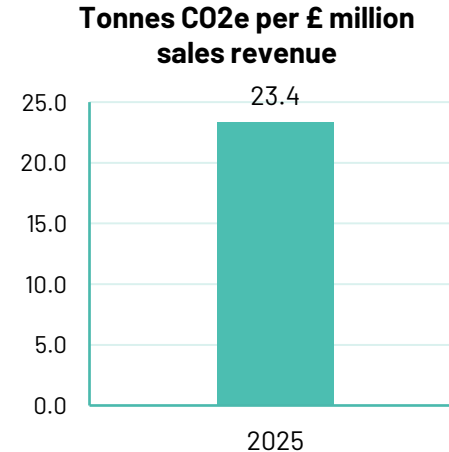
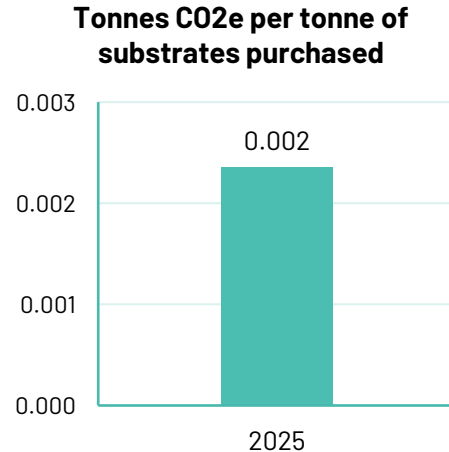
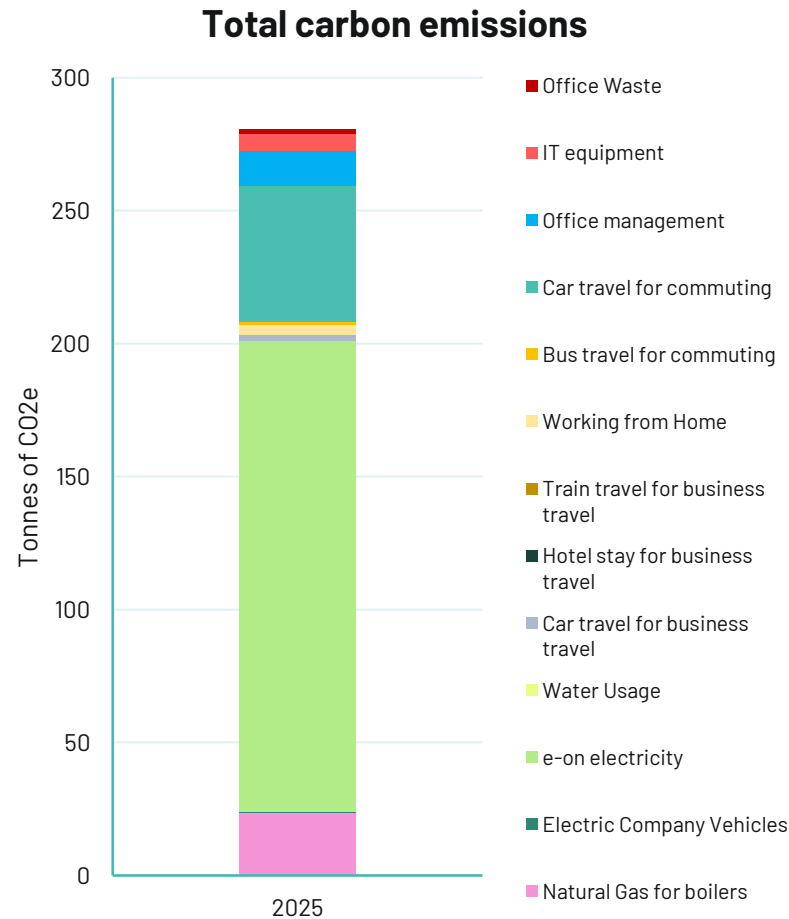
Summary	Three urgent things to do
Your well-organised data clearly identifies your purchased electricity via e-on as the largest carbon hotspot. This accounts for more than half your total carbon footprint.	1. Switch to a 100% renewable energy tariff. 2. Introduce initiatives such as car sharing and educational schemes to reduce commuting by private car. 3. Plan to replace natural gas boilers with electric alternatives.

*CO2e = carbon dioxide equivalent, the standard international measurement of carbon footprint.

Your carbon hotspots



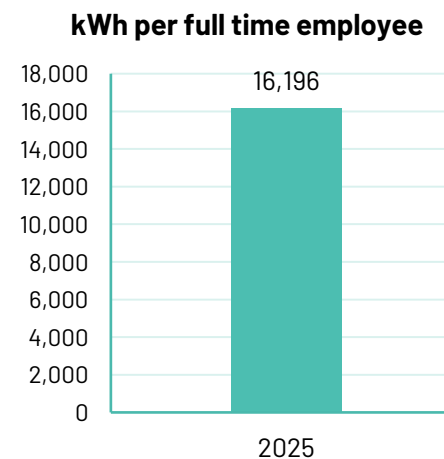
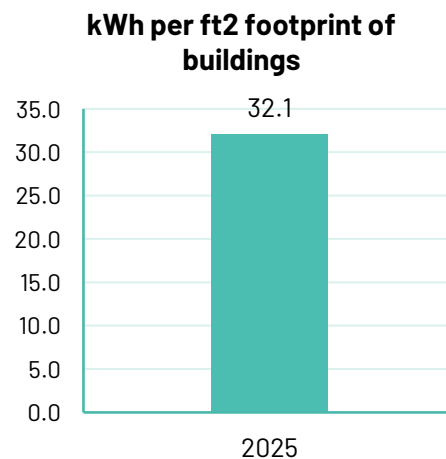
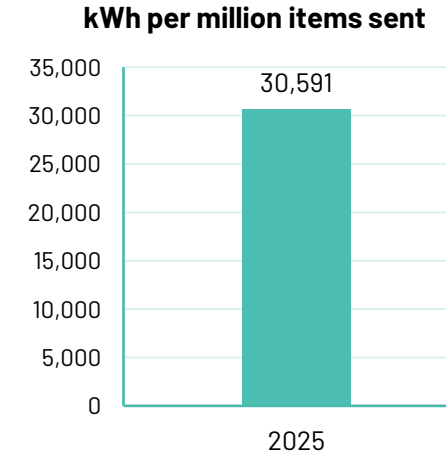
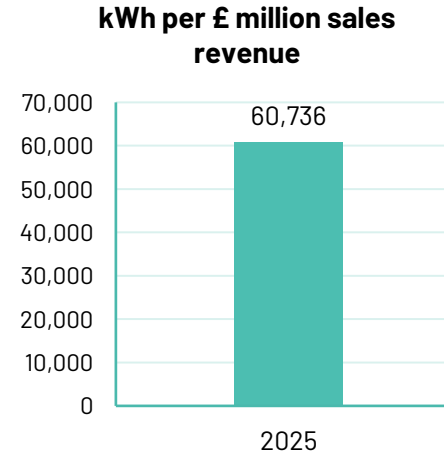
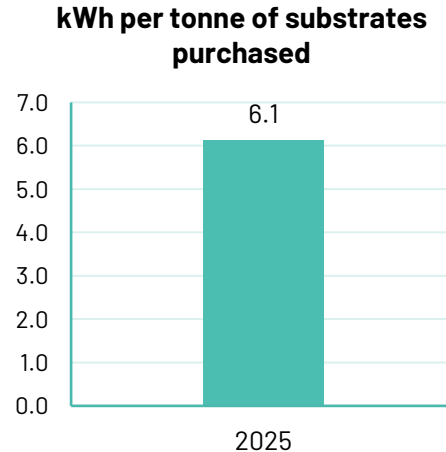
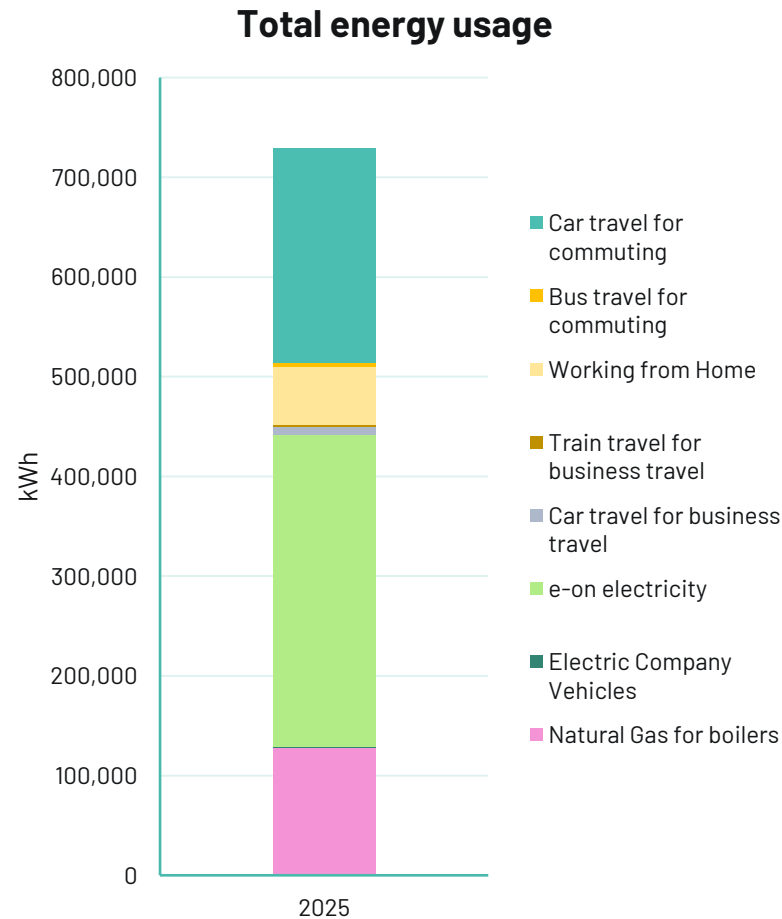
Your Carbon Emissions: Intensity Ratios



Intensity ratios compare emissions data with an appropriate business metric or financial indicator.

Intensity ratios are useful to assess your organisation's progress over time, or to compare it with other similar organisations.

Your Energy Usage: Intensity Ratios

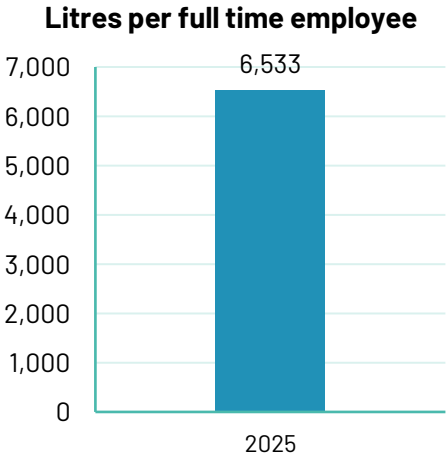
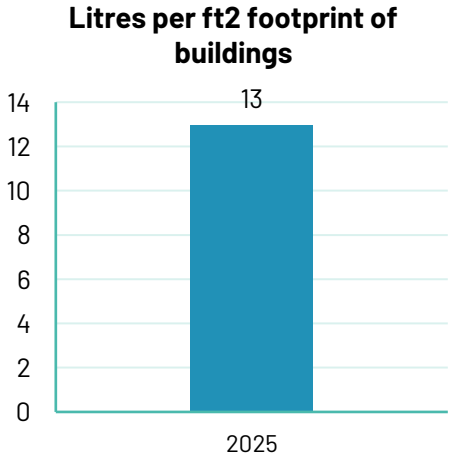
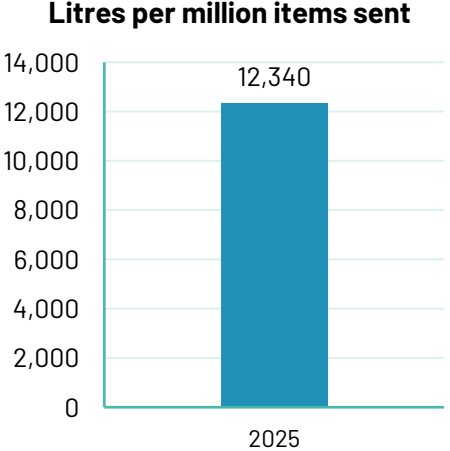
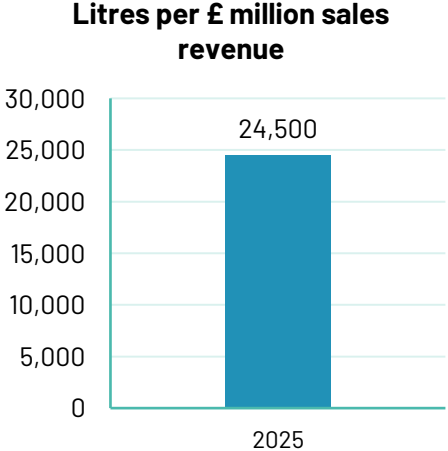
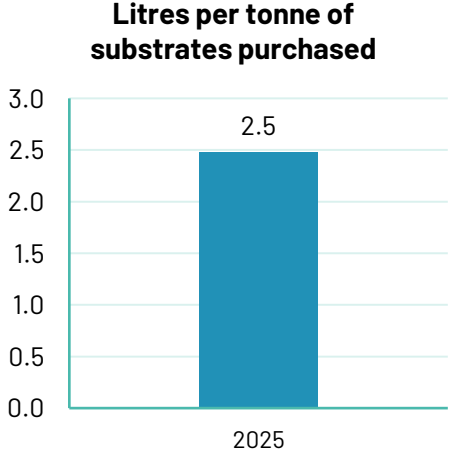
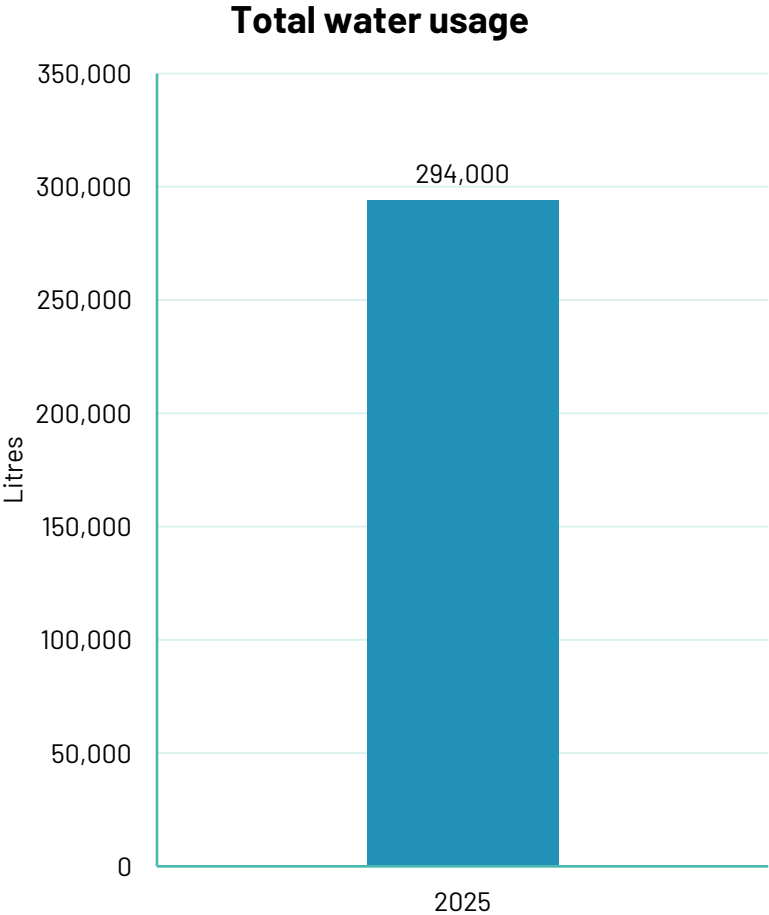


Energy intensity ratios give you an idea of the impact that energy use has on your overall carbon footprint.

Energy intensity is measured by the amount of energy required per business activity or service, so using less energy for a given service reduces the intensity.

Consuming less energy reduces the amount of greenhouse gases your organisation produces and therefore your carbon footprint.

Your Water Usage: Intensity Ratios



Your water footprint is a measure of the total water consumed to produce your products and services.

While having a minor impact on your carbon footprint, using less water not only reduces your environmental impact, it also helps your business cut costs by reducing your water bill. Keeping this in mind is therefore very important.

Reduction Strategy

The main contributor to your operational carbon footprint is your **purchased electricity**. It accounts for more than half of your total carbon footprint. To remedy this, your top priority is to transition to a 100% renewable electricity contract. This is a quick and effective step as it enables us to consider the positive impact of your purchasing choices, leading to a significant reduction in your carbon footprint associated with electricity use. This is especially pertinent because your current provider has a worse fuel mix than the UK grid average resulting in your market-based emissions being higher than your location-based emissions.

However, even with a 100% renewable electricity contract, your energy still comes from the national grid, which includes fossil fuels and retains a carbon footprint under the location-based approach. To address this, consider installing as many solar panels as your building allows for. This is a long-term investment that significantly reduces your overall carbon footprint. Some providers offer financing options, so you don't need to make a large upfront investment.

The second largest source of your carbon emissions is from employees **commuting by private car**. This can be a difficult activity to tackle because you do not have direct control over your employees' commuting behaviour. Therefore, education and incentive schemes should be implemented to achieve buy-in. Rewarding better commuting practices as well as helping employees understand the importance of it will facilitate reductions in this category.

Consider offering cycle-to-work and car sharing schemes to help reduce car mileage from commuting. Providing EV charging infrastructure access can also lead to reduced commuting emissions where car alternatives are not available.

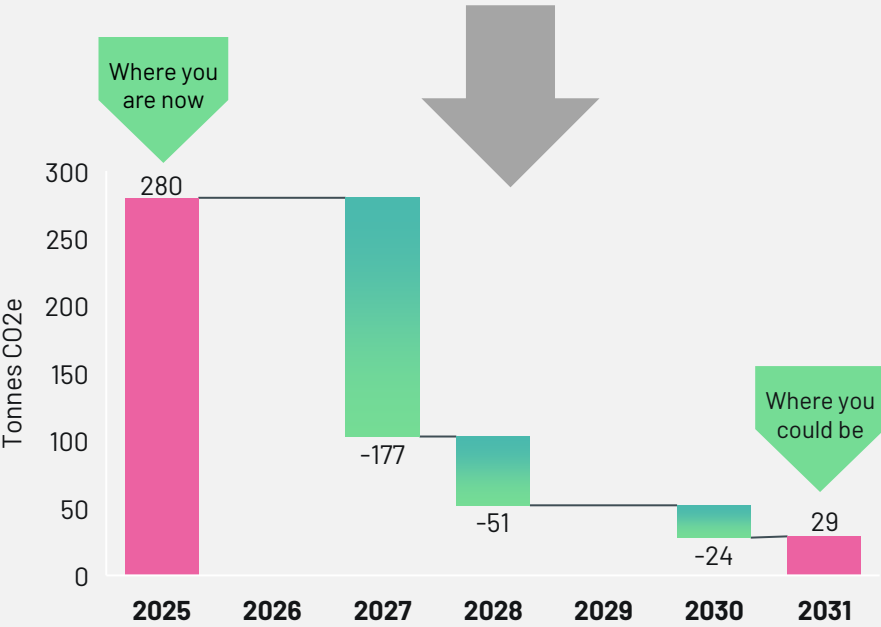
Your third largest contributor to your carbon footprint is **natural gas use for boilers**. One of the most challenging areas for most businesses to deal with is natural gas which depends on the age and purpose of boilers. You should phase this out in the next few years by switching to electric, because of its lower carbon footprint. When coupled with a renewable tariff or solar panels this will completely eliminate emissions from heating.

In the short-term other strategies you can look at are efficiencies in heating (people rather than space), improved insulation and reducing heat loss from building openings.

Potential Reductions

Implementing the measures below would reduce operational emissions by up to **252 tCO2e**, representing a **~90% reduction** against the 2025 baseline. These figures represent indicative abatement potential from one-off structural changes, with the timeline shown reflecting potential sequencing rather than fixed delivery dates.

Reduction target	Possible carbon reduction
Switch to a 100% renewable energy tariff.	177 tCO2e
Introduce initiatives such as car sharing and educational schemes to reduce commuting by private car.	51 tCO2e
Phase out natural gas for boilers	24 tCO2e

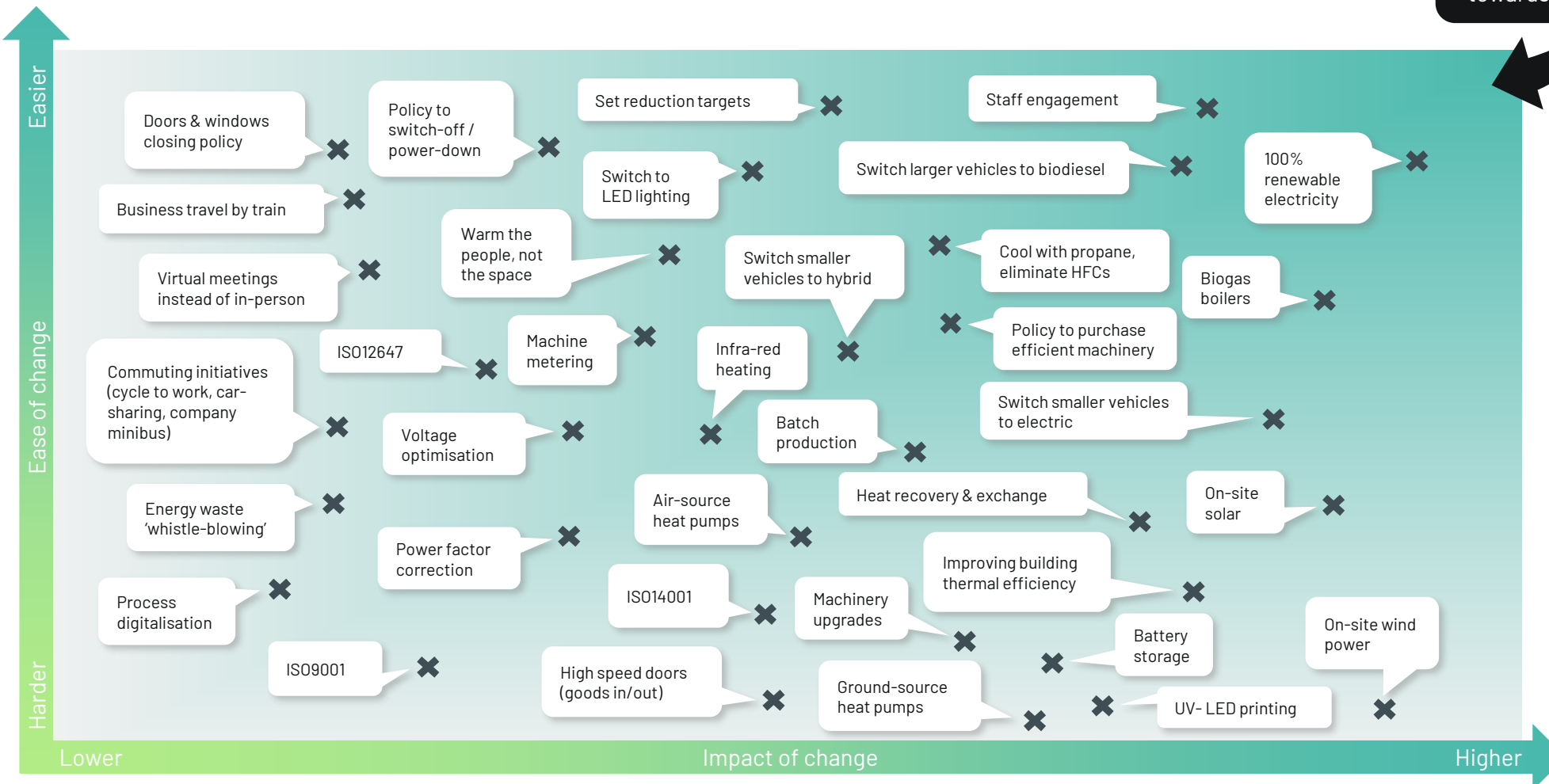


Note: The timeline shown is illustrative and reflects potential sequencing of actions rather than a fixed delivery schedule.

Carbon Reduction Ideas

We have ranked the top thirty initiatives that are improving energy efficiency and reducing carbon footprints. **How do you compare?**

The easiest and most impactful changes are towards the top right corner



Carbon Disclosure

When your customers ask

It is becoming normal to disclose your carbon footprint to your customers. This can be in statutory reports, in responses to enquiries, and on public directories.

Carbon emissions category	tCO2e
	2025
Scope 1	23.72
Scope 2 (market-based)	177.27
Scope 2 (location-based)	65.05
Scope 3*	79.42
Total (market-based)	280.41
Total (location-based)	168.19

*Scope 3 only includes business travel, commuting, working from home, office purchased goods, IT hardware, and office waste.

External Assessment – what to say about this process:

We have appointed CarbonQuota to independently assess the accuracy, completeness, and consistency of energy use and carbon footprint calculations, within the operations under our direct control.



Being asked about your Scope 3 emissions, or need more help?
Contact: info@carbonquota.co.uk

CarbonQuota can help you with

Creating a reputable, in depth, and market leading carbon reduction plan that will help you to:

- Disclose to organisations such as:
 - CDP
 - Ecovadis
 - SECR
 - B-Corp
- Enhance your ESG reporting;
- Ensure yearly carbon reductions;
- Help financially plan to achieve carbon reduction targets.



Marketing Toolkit: Certification & Label

Shout about it on your website

Certification of Operational Carbon Footprint Assessment

CarbonQuota has assessed and certified the greenhouse gas emissions associated with the following activity.

Company	bakergoodchild
Location	6-7 Windsor Industrial Estate, Rupert Street, Birmingham, United Kingdom, B7 4PR
Latest greenhouse gas emissions (2025)	Market-Based: 280.41 tonnes CO₂e Location-Based: 168.19 tonnes CO₂e
Date	April 2026

Certified CARBONQUOTA® CARBON MEASURED OPERATION

CarbonQuota has assessed the greenhouse gas (GHG) emissions associated with bakergoodchild's direct operations.
The period 1st January to 31st December 2025 was measured.
The operational boundaries of this study comprise the scope 1 GHG emissions associated with natural gas for boilers, scope 2 GHG emissions associated with purchased electricity for company vehicles and buildings, and scope 3 GHG emissions from business travel, commuting, working from home, office purchased goods, IT hardware, and office waste. All other scope 1, 2 & 3 GHG categories were excluded.

CARBONQUOTA®

Note: This certification confirms that CarbonQuota has assessed the emissions data in line with the stated methodology. It does not constitute certification to ISO, PAS 2060, or other third-party standards.

Add this to your email signature



What you can say

We are working with CarbonQuota to measure and reduce our carbon footprint (Certified: CarbonQuota 2026).

Input Table

Activity	Scope	Unit	2025
Revenue		Pound GB	*****
FTE		Employees	45.00
Building area		ft2	22,700.00
Substrate purchased		tonnes	118,889.00
Total volume sent		mail items	*****
Natural Gas for boilers	1	m3	11,475.00
Electricity UK Grid for company vehicles	2	miles	6,955.00
Electricity UK Grid regular tariff	2	kWh	311,842.00
e-on electricity	2	kWh	311,842.00
Water Usage	3	m3	294.00
Train Travel - Standard class for business travel	3	miles	2,220.00
Car travel for business travel	3	miles	8,120.70
Hotel stay for business travel	3	nights	2.00
Working from home	3	Days	1,511.00
Bus travel for commuting	3	miles	5,760.00
Car travel for commuting	3	miles	191,224.00
Reams of A4 Paper	3	Pound GB	3,946.70
Other Office stationery	3	Pound GB	5,813.00
Office food & drink	3	Pound GB	7,768.00
Office cleaning & hygiene	3	Pound GB	33,547.00
Staff uniform	3	Pound GB	943.00
Tablets & Laptops	3	number of items	7.00
Display Screens	3	number of items	12.00
Office waste - General	3	number of items	252.00

Results Table: Carbon Footprint

Activity	Scope	Unit	2025
Natural Gas for boilers	1	tCO2e	23.72
Electricity UK Grid for company vehicles	2	tCO2e	0.49
Electricity UK Grid regular tariff	2	tCO2e	64.57
e-on electricity	2	tCO2e	176.79
Water Usage	3	tCO2e	0.05
Train Travel - Standard class for business travel	3	tCO2e	0.13
Car travel for business travel	3	tCO2e	2.18
Hotel stay for business travel	3	tCO2e	0.02
Working from home	3	tCO2e	3.78
Bus travel for commuting	3	tCO2e	0.94
Car travel for commuting	3	tCO2e	51.36
Reams of A4 Paper	3	tCO2e	5.76
Other Office stationery	3	tCO2e	0.53
Office food & drink	3	tCO2e	1.73
Office cleaning & hygiene	3	tCO2e	4.42
Staff uniform	3	tCO2e	0.57
Tablets & Laptops	3	tCO2e	1.73
Display Screens	3	tCO2e	4.59
Office waste - General	3	tCO2e	1.63
Total (Location-Based)		tCO2e	168.19
Total (Market-Based)		tCO2e	280.41

Results Table: Energy Usage

Activity	Scope	Unit	2025
Natural Gas for boilers	1	kWh	127,778.87
Electricity UK Grid for company vehicles	2	kWh	1,738.75
e-on electricity	2	kWh	311,842.00
Train Travel - Standard class for business travel	3	kWh	1,112.73
Car travel for business travel	3	kWh	9,108.99
Working from home	3	kWh	58,362.38
Bus travel for commuting	3	kWh	4,387.84
Car travel for commuting	3	kWh	214,495.96
Total		kWh	728,827.51

Results Table: Intensity Ratios

Carbon intensity ratios (yours are market-based)

Activity	2025
Tonnes CO2e per tonne of substrates purchased	0.002
Tonnes CO2e per £ million sales revenue	23.37
Tonnes CO2e per ft ² footprint of buildings	0.01
Tonnes CO2e per full time employee	6.23
Tonnes CO2e per million items sent	11.77

Energy intensity ratios

Activity	2025
kWh per tonne of substrates purchased	6.13
kWh per £ million sales revenue	60,736
kWh per ft ² footprint of buildings	32.11
kWh per full time employee	16,196
kWh per million items sent	30,591

Water intensity ratios

Activity	2025
Litres per tonne of substrates purchased	2.47
Litres per £ million sales revenue	24,500
Litres per ft ² footprint of buildings	12.95
Litres per full time employee	6,533
Litres per million items sent	12,340

Operational Carbon Footprint Methodology

In carrying out the greenhouse gas (GHG) inventory and preparing this report, CarbonQuota has followed the principles of the **GHG Protocol Corporate Accounting and Reporting Standard** (Scopes 1 and 2) and the **GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard**. The methodology also follows the broad guidance of **ISO 14064-1** for organisational GHG quantification and reporting.

1. Operational and Organisational Boundaries

Operational boundaries:

This study includes GHG emissions from the following categories:

- **Scope 1:** Natural gas for boilers
- **Scope 2:** Purchased electricity for company vehicles and buildings
- **Scope 3:** Business travel, commuting, working from home, office purchased goods, IT hardware, and office waste.

All other Scope 1, 2, and 3 categories were excluded.

Organisational boundaries:

The organisational boundary comprises 6-7 Windsor Industrial Estate. Consolidation of facility-level GHG emissions was undertaken using the **operational control** approach.

Carbon removals and reservoirs:

This assessment covers operational GHG emissions only. No carbon removals or reservoirs were included as none are relevant to the organisational or operational boundaries.

2. Identification of GHG Sources and Sinks

GHG sources and sinks were identified using CarbonQuota's industry

expertise, previous assessments, and guidance from international publications including the GHG Protocol. Any exclusions are documented and justified in this report.

3. Quantification Method

The quantification method follows the standard equation:

$$GHG\ emissions\ (tCO_2e) = Activity\ Data \times Emission\ Factor$$

The methodology prioritises primary activity data where available. In the absence of primary data, secondary sources were applied.

4. Activity Data Sources

Primary data for this assessment were collected through online surveys completed by either employees or suppliers.

To support data accuracy, **utility bills, supplier invoices, and expense claims** were reviewed as **supporting evidence** to verify and cross-check the values submitted through the survey.

The reporting period is 2025, aligned to the calendar year.

5. Emission Factors

Emission factors were selected from:

- The most recent **national datasets** (e.g., UK DEFRA/BEIS/DESNZ, European Environment Agency, and IEA)
- The latest version of the **Ecoinvent database**
- IPCC default factors where no national or Ecoinvent data was available

All Kyoto Protocol GHGs identified by the IPCC are included in the CO₂e totals using 100-year GWP values from the selected datasets. Other greenhouse gases, such as Montreal Protocol substances (e.g., CFCs and HCFCs), are not included in the CO₂e total but may be reported separately where relevant.

6. Data Quality and Uncertainty

Data quality was assessed for completeness, accuracy, consistency, transparency, and relevance. Supporting evidence (e.g., utility bills, invoices) was used to validate company-provided data, improving the overall reliability of the results. Where applicable, estimates and assumptions are disclosed to support transparency.

7. Calculation and Tools

All calculations were performed using the **CarbonQuota online engine**, which applies the most current emission factors.

The data undergoes **automated validation within the platform and a manual review by CarbonQuota analysts** to ensure accuracy before results are finalised.

8. Internal Quality Review

CarbonQuota's GHG accounting methodology is subject to internal quality reviews carried out by Dr. Matt Fishwick and Dr. Matteo Cossutta. These reviews take place as needed and focus on spot checks of calculations, checks on the correct application of emission factors, and review of any updates to the methodology.

This process supports overall methodological quality but does not constitute a full review or verification of each individual report.

9. Compliance Statement

This methodology is consistent with the GHG Protocol Corporate Standard and Corporate Value Chain Standard and follows the broad guidance of ISO 14064-1 for organisational GHG quantification and reporting.

Company overview

CARBONQUOTA®



We exist to simplify carbon measurement and reduction – helping businesses to help the planet.

Our mission is to empower businesses and their supply chains to take positive action for the planet.

Through our innovative automated carbon footprint technology and tailored reduction strategies, we enable responsible companies to measure, report, and actively reduce their environmental impact, fostering a sustainable future for all.

As your trusted partner, CarbonQuota provides the optimal combination of technology, expertise and strategic vision to help you to navigate your carbon reduction journey – tailored to your priorities and aspirations.

With pragmatic solutions focused on continuous improvement, we empower businesses to reduce emissions today, while developing the capacity for long-term, accounted de-carbonisation.

We make verifiable carbon management and reduction achievable through:

- Robust data for evidence and insight led decisions
- Seamless tech integration for efficiency
- Pragmatic, staged roadmaps to fit your objectives and pace
- Advice grounded in science, not marketing

What really sets us apart from other carbon accounting providers, is our unique data and deep knowledge and expertise.

We have the richest dataset of emission factors available anywhere in the industry and avoid, where possible, the use of average emission factors typically available in generic databases.

Our algorithm is intelligent and dynamic – constantly evolving and improving as new data becomes available and regularly independently verified.

Our environmental scientist team are qualified to work in accordance with relevant international standards



We are Catalysts

We don't just talk about change – we make it happen. We're the spark that drives sustainable action and transformation.



We are approachable

We're here to help, wherever you are in your sustainability journey. We educate, inspire, and work together to achieve positive outcomes.



We are curious

We ask questions – even the tough ones. We listen to understand and challenge to drive innovation for a more sustainable future for all of us



We are honest

We believe in keeping it real. We're not afraid to challenge ideas if it means getting the best results for colleagues you, your team, and the planet.

Pioneering Carbon Solutions

for the Packaging and Print Sector



We are the world's leading carbon consulting and technology business for the packaging and print sector. While this may seem like a niche market, it's critically important - accounting for **30%** of global greenhouse gas emissions and involving hundreds of thousands of stakeholders across raw materials, design, production, supply chain, and consumer consumption.

Our specialisation:

Our expertise is driven by a fundamental understanding that effective carbon calculations require deep, sector-specific knowledge. Unlike generalist firms that may provide misleading or inaccurate assessments, we offer granular, accurate, and automated carbon calculations with unparalleled industry insight.

Our Unique Team:

We are not just a company, but a collective of experts:

- Climate experts
- Data scientists
- Technology enthusiasts
- Supply chain specialists
- Marketing and process gurus

This diverse skill set is why we stand as the world's leading carbon consulting and technology business for the packaging and print sector.

Our Services:

We categorise our business into four areas:

CarbonConnect

Our integrated and automated product carbon footprint solution via our Channel Partners.

CarbonEssentials

For businesses wanting to start exploring their carbon footprint in more detail.

CarbonPro

For businesses decarbonising their operations, products and supply chain, with Net-Zero ambitions.

Consulting

Our consulting wrapper allows our customers to access some of the most talented people in our industry

Our customers range from small and medium-sized enterprises to the largest and most recognised brands in the world. They all share a common goal: using scientific data to help decarbonize the packaging and print sector.

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