



CARBON REDUCTION PLAN PEAK SCIENTIFIC INSTRUMENTS LTD

Client:

Peak Scientific Instruments Ltd

Prepared for:

Bruce Peat

Peak Scientific Instruments Ltd

Date:

20 October 2025

Prepared by:

Brennig Pascoe

Carbon Accountant



Contents

Title	Page
Foreword.....	2
Introduction.....	3
Context.....	3
Reporting Standards and Scope.....	3
Net Zero Commitment.....	4
Baseline Emissions.....	4
Baseline Year: 01/04/2023 – 31/03/2024.....	4
Science-Based Targets.....	5
Planned Carbon Reduction Initiatives.....	6
Declaration and Sign Off.....	7
Appendix A.....	8
List of quantified carbon reduction measures.....	8
List of unquantified carbon reduction measures.....	8

Auditel's Credentials – Verification Bodies



Foreword

Peak Scientific Instruments Ltd recognises how important it is for us to make sure we are committed to reducing our carbon emissions and the impact we have on the environment in everything we do. This Carbon Reduction Plan (CRP) sets out how we will continue to improve the ways in which we use our resources to ensure the least harm to our environment.

Each year this grows in importance as our awareness is raised on the critical importance of changing our behaviours regarding climate change and sustainability. Legislation and regulation reflect this priority, and we are committed to ensuring we meet our requirements and where possible, exceed expectations.

Whether we are thinking of how to travel to work, where we hold a meeting, where we purchase supplies from and the myriads of choices we make in our daily life, having carbon underpinning every choice we make and every action we take must be integral to us delivering our vision, mission, and strategic goals.

This year we have calculated our carbon footprint and the engagement with our staff has proved very useful in helping us to identify where we need to change our behaviour and how to do it. This has helped us to prioritise the key areas we want to focus on for the next year as outlined in the detailed action plan. We also recognise that many of the measures we plan to take to reduce our carbon footprint will also help the us operate more efficiently, cut costs, and go some way to protecting us from the inevitable future increases to fuel and energy costs.

Using the information gathered and working with our dedicated staff, we will be able to set challenging targets and report our progress on the journey to Net Zero.

Introduction

This Carbon Reduction Plan conforms to the requirements of Procurement Policy Note PPN06; "Taking Account of Carbon Reduction Plans in the procurement of major government contracts" and ISO14064-1.

Context

Climate change is a real and immediate threat for us all. Carbon dioxide (CO₂) levels have already reached their highest level for almost half a million years and are rising faster than ever. Like all businesses, Peak Scientific Instruments Ltd has a key role to play in mitigating the effects of climate change, both as an employer and through the products they provide. Castell Howell Foods' climate change challenge falls into:

- ✎ Cutting the businesses carbon footprint
- ✎ Preparing for the impacts of a changing climate

Aside from the moral and environmental case for taking action to tackle climate change there are many other drivers for Peak Scientific Instruments Ltd to address this issue. These include:

- ✎ Leadership - Taking strategic action towards reducing carbon emissions will ensure that Peak Scientific Instruments Ltd can lead the way in developing effective mechanisms to tackle climate change. This will help stimulate low carbon transitions across the regions in which we operate.
- ✎ Cost savings - With increasing pressure on all businesses to cut costs, reducing the amount spent on energy bills is a key driver for lowering our energy consumption.
- ✎ Reputation - With stretching national targets, there is increasing pressure on businesses to be seen as "doing their bit" and playing a leadership role on climate change action. Failure to act could lead to reputational risks and adversely affect the company's public image.

Reporting Standards and Scope

The calculations of Peak Scientific Instruments Ltd' carbon footprint is in line with the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard.

Peak Scientific Instruments Ltd employs Auditel as the consultancy providing carbon accounting services. Auditel undertake a series of quality assurance checks in line with industry best practice to ensure that the Greenhouse Gas statements represent a faithful, true, and fair account of Peak Scientific Instruments Ltd's GHG emissions from the data available.

The process follows the principles of ISAE3410, Assurance Engagements on Greenhouse Gas Statements standard, but is not a formal assurance to the standard currently. It is carried out to ensure that the statement is considered materially correct, a fair representation of the Greenhouse Gases emitted and is prepared in alignment with the Greenhouse Gas Protocol and the relevant activities of Peak Scientific Instruments Ltd.

Net Zero Commitment

Peak Scientific Instruments are fully committed to achieving Net Zero emissions across all scopes by 2050 at the latest. This will ensure Peak Scientific Instruments are aligned with the UK Government's commitment to reducing greenhouse gas emissions by 90% of 1990 levels, as set out in the 2008 Climate Change Act. This Carbon Reduction Plan presents Peak Scientific Instruments baseline greenhouse gas emissions and outlines how the company plans to reach its Net Zero targets in the short and medium-term.

Baseline Emissions

Baseline Year: 01/04/2023 – 31/03/2024

Scope	Category	Emissions (tCO ₂ e)	Contribution to Footprint (%)
1	Stationary Combustion (Gas for Heating)	299.74	5.46%
	Mobile Combustion	98.19	1.79%
	Fugitive Emissions (HVAC)	0	0%
	Total	397.93	7.25%
2	Electricity	185.92	3.39%
	Total	185.92	3.39%
3	Purchased Goods and Services	0.54	0.01
	Capital Goods	1.35	0.02
	Fuel and Energy-Related Activities	134.58	2.45
	Upstream Transportation and Distribution	832.55	15.17
	Waste from Operations	3.1	0.06
	Business Travel	414.77	7.56
	Employee Commuting and Homeworking	534.16	9.06
	Downstream Transport and Distribution	2,982.78	54.35
	Total	4,903.83	55%
All	Total	5,487.68	100

Intensity Metrics: 01/04/2023 – 31/03/2024

Metric	Emissions (tCO ₂ e)
tCO ₂ e per square meter floor space	0.05
tCO ₂ e per £1M turnover	83.15
tCO ₂ e per employee	16.58

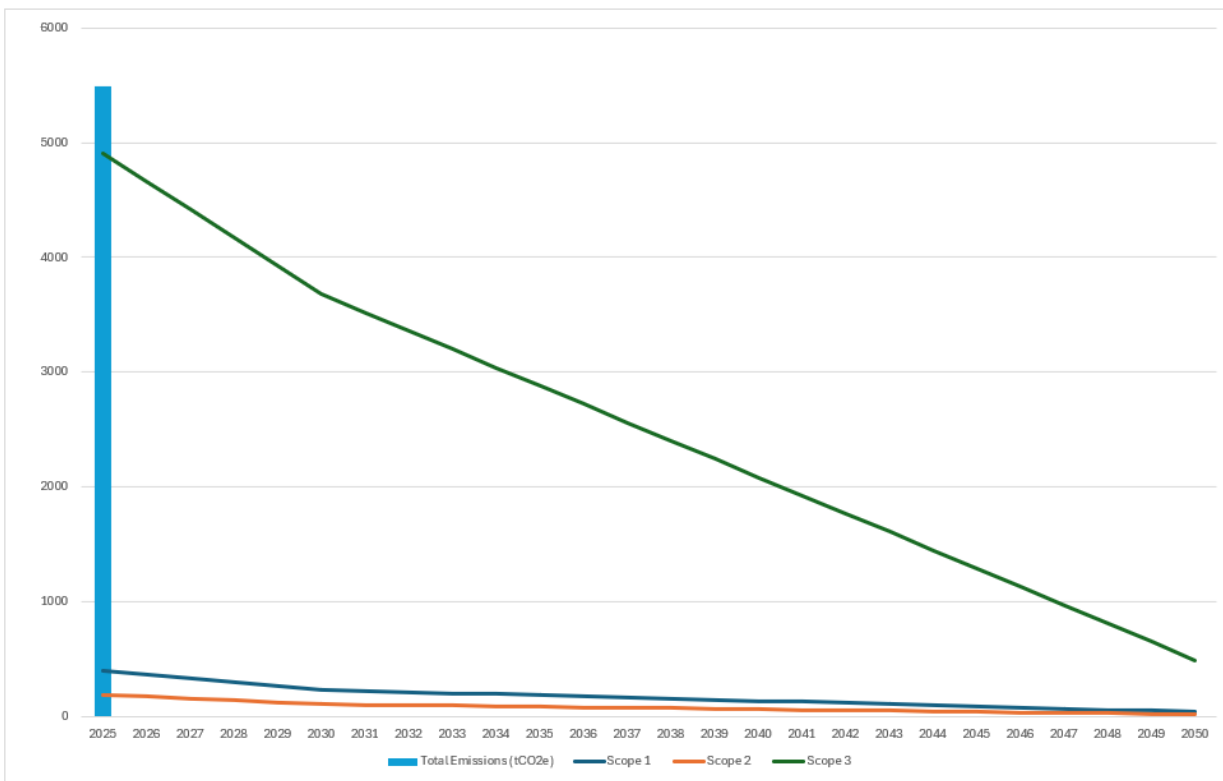
Science-Based Targets

By accurately establishing our baseline carbon emissions for the 2023/24, we have laid the foundation for setting robust, evidence-based targets to guide our emissions reduction strategy. The graphs below outline our science-based trajectory, illustrating the annual reductions required to achieve Net Zero emissions by 2050. We commit to reducing our greenhouse gas emissions in line with the Science Based Targets:

We commit to reducing our greenhouse gas emissions in line with the Science Based Targets initiative (SBTi):

- **Scope 1 & 2:** Achieve a **42% reduction by 2030**, and a **90% reduction by 2050**.
- **Scope 3:** Achieve a **25% reduction by 2030**, and a **90% reduction by 2050**.

These targets align with a **1.5°C pathway** and support our goal of reaching **net-zero emissions by 2050**.



Planned Carbon Reduction Initiatives

To help achieve our Net Zero targets, we plan to implement the following initiatives:

Scope 1 Reduction

As part of our ongoing commitment to sustainability and reducing our environmental impact, we are upgrading our existing boiler systems at Cherry Tree to high-efficiency models. Replacing an old boiler with a new, high-efficiency model can reduce carbon dioxide emissions by up to 30%. This initiative aligns with our broader strategy to enhance energy efficiency, lower operational costs, and support a low-carbon future.

To reduce our Scope 1 emissions, we are also planning to add electric vehicles to our company's fleet, upgrade the building management system at our Cherry Tree site to improve energy efficiency, and install de-stratification fans to enhance heat distribution and reduce heating demand.

Scope 2 Reduction

As part of our sustainability strategy and commitment to reducing our carbon footprint, we are installing solar photovoltaic (PV) systems on our buildings. The installations are expected to generate clean, renewable energy as follows:

- **CTH Building:** Estimated annual generation of **127,427 kWh**
- **RTH Building:** Estimated annual generation of **61,624 kWh**

This initiative will significantly reduce our reliance on grid electricity, lower our greenhouse gas emissions, and support our long-term environmental goals.

To reduce our Scope 2 emissions, we are also planning the installation of automatic lights and LEDs across all sites. LEDs are significantly more energy-efficient than traditional lighting, and automatic controls help eliminate unnecessary usage by ensuring lights are only active when needed.

Scope 3 Reduction

In line with our commitment to environmental responsibility and reducing our carbon footprint, we are actively transitioning our outward logistics operations to **DHL GoGreen** services. This strategic shift enables us to significantly reduce the carbon emissions associated with air freight and international shipping.

By leveraging DHL's certified climate-neutral shipping solutions, we can achieve up to an **80%** reduction in carbon emissions compared to conventional air freight methods. This is made possible through a combination of sustainable aviation fuel, carbon offsetting, and optimised logistics practices.

We are also planning to reduce our Scope 3 emissions through a series of targeted initiatives, including the elimination of non-recyclable product components by 2030, the removal of all plastics in packaging by 2028, and the completion of a sustainable travel policy that promotes low-carbon mobility. We are also transitioning away from air freight for finished goods by utilising sea and rail transport and have achieved ACT Ecolabel certifications for our highest-performing products, with ongoing investment to expand this recognition across our portfolio.

Scope	Baseline Emissions (tCO ₂ e)		Target Emissions (tCO ₂ e)		Reduction by 2050 (%)
	2022/23	2030	2040	2050	
1	397.93	230.8	135.3	39.79	90
2	185.92	107.83	63.21	18.6	90
3	4,903.82	3,677.87	2,084	490.38	90
Total	5,487.68	4,016.51	2,282.51	548.77	90

It is important to note that some of the identified carbon reduction measures could not be accurately quantified and are therefore excluded from the modelled outcomes. As a result, we anticipate additional emissions reductions, particularly within our Scope 3 emissions, beyond those captured in the current projections. A full list of included and excluded reduction measures can be found in Appendix B. While our current measures are projected to achieve a 31% reduction in carbon emissions by 2050, falling short of our 90% target, we remain confident that advancements in technology and the implementation of additional, currently unquantifiable initiatives will enable us to significantly increase our overall reduction and move closer to our long-term goal.

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 reporting.

Scope 1 and 2 emissions have been reported in accordance with SECR requirements, and the required 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.

Signed on behalf of Peak Scientific Instruments Ltd by:



Jonathan Golby

Chief Executive Officer

Date: 20/10/25

Appendix A

List of quantified carbon reduction measures

Initiative	Target Implementation Date	Scope Category Impacted	Predicted Reduction (tCO ₂ e)
Replacing boilers at Cherry Tree	2030	Scope 1 and Scope 3	35.28
Installing solar panels at Cherry Tree	2030	Scope 2 and Scope 3	50.93
Using DHL Go Green for outgoing freight flights	2030	Scope 3	1627.89

List of unquantified carbon reduction measures

Initiative	Target Implementation Date	Scope Category Impacted
Adding electric vehicles to company fleet	2030	Scope 1 & 3
Cherry Tree BMS (Building Management System) upgrade	2030	Scope 1, 2 & 3
Installation of de-stratification fans	2030	Scope 1, 2 & 3

Initiative	Target Implementation Date	Scope Category Impacted
Reduction in non-recyclables in product with aim to have all components either recycled or recyclable by 2030	2030	Scope 3
Completion of a comprehensive travel policy that supports sustainable travel	2025	Scope 3
Removal of all plastics in packaging by 2028	2028	Scope 3
Installation of automatic lights and LEDs across all sites	2030	Scope 2 & 3
Achievement of ACT Ecolabels for highest running products and investment in further ACT Ecolabels for more products	2030	Scope 3
Reducing air freight transport for finished goods by utilising other forms of transport such as sea and rail	2030	Scope 3