

Carbon Reduction Plan

In accordance with PPN 06/21

Version	Date	Owner	Approved By	Next Review
1.2	February 2025	Fabio Rovai, Operations Lead	Dr Stylianos Kampakis	February 2026

1. Commitment to Net Zero

Kampakis and Co Ltd (trading as The Tesseract Academy) is committed to achieving Net Zero greenhouse gas emissions by **2050**, in line with UK Government targets and the Paris Agreement. We recognise our responsibility to minimise our environmental impact and are taking proactive steps to reduce our carbon footprint across all areas of our operations.

This Carbon Reduction Plan has been prepared in accordance with Procurement Policy Note 06/21 (PPN 06/21) and outlines our current greenhouse gas emissions, reduction targets, and the measures we are implementing to achieve those targets.

2. Baseline Emissions

Our baseline emissions have been calculated for the financial year 2022/23. As a micro-enterprise providing professional services (AI consultancy and training), our emissions profile is dominated by Scope 2 (purchased electricity) and Scope 3 (indirect emissions from our value chain) rather than Scope 1 (direct emissions).

Emissions Source	Scope	Baseline (tCO ₂ e)	Notes
Company vehicles	Scope 1	0.0	No company vehicles
Natural gas (heating)	Scope 1	0.0	No dedicated office premises
Purchased electricity	Scope 2	0.8	Home office energy usage (apportioned)
Business travel	Scope 3	2.1	Flights, rail, taxis for client meetings and conferences
Employee commuting	Scope 3	0.3	Minimal due to remote-first model
Cloud computing	Scope 3	1.5	AWS, GCP, Azure usage for AI/ML workloads
Purchased goods & services	Scope 3	0.6	IT equipment, software licences, office supplies
Total Baseline		5.3	

3. Current Emissions (2024/25)

Our current emissions for the reporting period 2024/25 show a reduction against the baseline, primarily driven by our remote-first working model and deliberate reduction in air travel:

Emissions Source	Scope	Current (tCO2e)	Change vs Baseline
Scope 1 (Direct)	Scope 1	0.0	No change
Scope 2 (Electricity)	Scope 2	0.6	-25% (green tariff)
Scope 3 (Business travel)	Scope 3	1.2	-43% (virtual meetings)
Scope 3 (Cloud computing)	Scope 3	1.3	-13% (efficient workloads)
Scope 3 (Other)	Scope 3	0.7	-22%
Total Current		3.8	-28% overall

4. Carbon Reduction Measures

We have implemented and continue to develop the following measures to reduce our carbon emissions:

4.1 Remote-First Working Model

Our default operating model is remote-first. All staff work primarily from home, eliminating daily commuting emissions and the energy costs of dedicated office space. We use collaborative tools (Microsoft Teams, Slack, Google Workspace) to maintain productivity without physical co-location. This single measure accounts for the majority of our emissions avoidance compared to a traditional office-based consultancy.

4.2 Sustainable Travel Policy

We have implemented a sustainable travel policy that prioritises:

- Virtual meetings as the default for all client interactions and internal collaboration.
- Rail travel over air travel for UK destinations.
- Public transport over private vehicles for local travel.
- Air travel only when no viable alternative exists, with carbon offsetting for all flights.

4.3 Cloud Computing Efficiency

As an AI consultancy, cloud computing for machine learning workloads represents a significant portion of our Scope 3 emissions. We are reducing this through:

- Selecting cloud regions powered by renewable energy where available.
- Optimising ML model training pipelines to reduce computation time and energy consumption.
- Using spot/preemptible instances to improve resource utilisation.
- Implementing auto-scaling and automatic shutdown of idle resources.
- Monitoring cloud carbon footprint using provider tools (AWS Carbon Footprint, Google Cloud Carbon Sense).

4.4 Procurement and Supply Chain

We consider environmental impact in our procurement decisions:

- Preferring suppliers with published carbon reduction plans and Net Zero commitments.

- Extending the lifecycle of IT equipment through maintenance, repair, and refurbishment.
- Responsible disposal of IT equipment through certified WEEE recycling schemes.
- Paperless operations: all documentation is digital by default.

4.5 Green Energy

We encourage all home-based workers to switch to 100% renewable energy tariffs and provide a green energy allowance to facilitate this. The Operations Lead has verified that the primary home offices used for company work are now on certified green electricity tariffs.

5. Future Targets

Target Year	Target (tCO2e)	Reduction vs Baseline	Key Actions
2025/26	3.2	-40%	100% green energy, further travel reduction
2027/28	2.5	-53%	Carbon-aware cloud scheduling, sustainable procurement policy
2030/31	1.5	-72%	Near-zero travel, fully optimised cloud, supply chain engagement
2040/41	0.5	-91%	Residual emissions only, offsetting for remainder
2050	0.0 (Net Zero)	-100%	Full Net Zero achieved

6. 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 standard. This Carbon Reduction Plan has been reviewed and signed off by the board of Kampakis and Co Ltd.

Signed: Dr Stylianos Kampakis

Title: Managing Director

Date: February 2025

This Carbon Reduction Plan is published on our website at thetesseractacademy.com and will be updated annually.