

Towards a Sustainable Future

Carbon Reduction Plan compliant with PPN 006

Shield Environmental Holdings Ltd

Including its subsidiaries:

-Shield Environmental Services Ltd

-Shield Mechanical, Electrical & Facilities Services Ltd

-Shield Fire & Security Ltd

Baseline year: 2023 | Reporting year: 2025

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3,968.9

tCO2e total emissions in 2025

3.8% lower than our 2023 baseline

1,534.6	69.7	2,364.6
Scope 1	Scope 2	Scope 3

Net Zero target: 2045

Introduction

On 20 March 2023, António Guterres, Secretary-General of the United Nations, warned that "the climate time-bomb is ticking" as the Intergovernmental Panel on Climate Change (IPCC) published the Synthesis Report of its Sixth Assessment cycle (IPCC, 2023).

The report, which draws on the work of hundreds of scientists, is one of the most comprehensive assessments of the climate crisis ever published. It concluded that global warming is likely to reach 1.5°C in the near term and that, without deep, rapid and sustained reductions in greenhouse gas emissions, limiting warming to this level will slip out of reach.

Current policies put the world on track for considerably more warming than internationally agreed limits. Every increment of warming intensifies heatwaves, extreme rainfall, drought and sea level rise, and threatens ecosystems such as coral reefs, with serious consequences for health, food security and livelihoods (IPCC, 2023).

Businesses and organisations of every size have a role to play in reducing emissions, and in demonstrating that progress transparently to their clients, partners and wider stakeholders.



In 2019 the UK became the first major economy to pass a law requiring Net Zero emissions by 2050. Under Procurement Policy Note 006 (PPN 006), which replaced PPN 06/21 in 2025, suppliers bidding for major government contracts must publish a Carbon Reduction Plan setting out their commitment to Net Zero and their reported emissions.

Our Approach

enistic

Commitment to Sustainability

Our carbon reduction journey is driven by a deep commitment to sustainability. We recognise the importance of lowering our emissions as part of our broader environmental responsibility.

Future Vision and Efficiency

We envision a future of maximum energy efficiency, greater use of renewable energy and minimal waste generation. This approach extends beyond compliance, shaping truly sustainable operations.

Collaborative Innovation

Achieving this future requires innovative approaches, active employee engagement and strong collaboration with our clients, partners and suppliers. Together, we can pave the way for a greener tomorrow.

Operational Benefits

By implementing sustainable practices, we aim to improve operational efficiency and drive long-term cost savings, contributing to both environmental and economic prosperity.

Our Commitment: Path to Net Zero by 2040

Scope 1

Direct emissions from sources owned or controlled by us, such as vehicles and on-site fuels.

Scope 2

Indirect emissions from the purchase of electricity, heating, cooling and steam.

Scope 3

All other indirect emissions across our value chain not included in Scope 1 and 2.

Our Commitment

Shield Environmental Services is committed to achieving Net Zero greenhouse gas emissions by 2045. Reductions will be achieved primarily through direct decarbonisation measures; carbon removals will only be considered for residual emissions that remain once all feasible reduction measures have been implemented.

Emissions Measurement

We measure all of our Scope 1 and Scope 2 emissions following the GHG Protocol Corporate Standard, and a subset of Scope 3 emissions following the Corporate Value Chain (Scope 3) Standard. Scope 2 emissions are reported on a location-based basis.

Baseline Methodology

We have adopted 2023 as our baseline year, against which progress is measured. This plan reports our emissions for 2025.

We worked with Enistic Ltd to calculate our emissions.



Carbon Reduction Plan

in accordance with the requirements of PPN 006

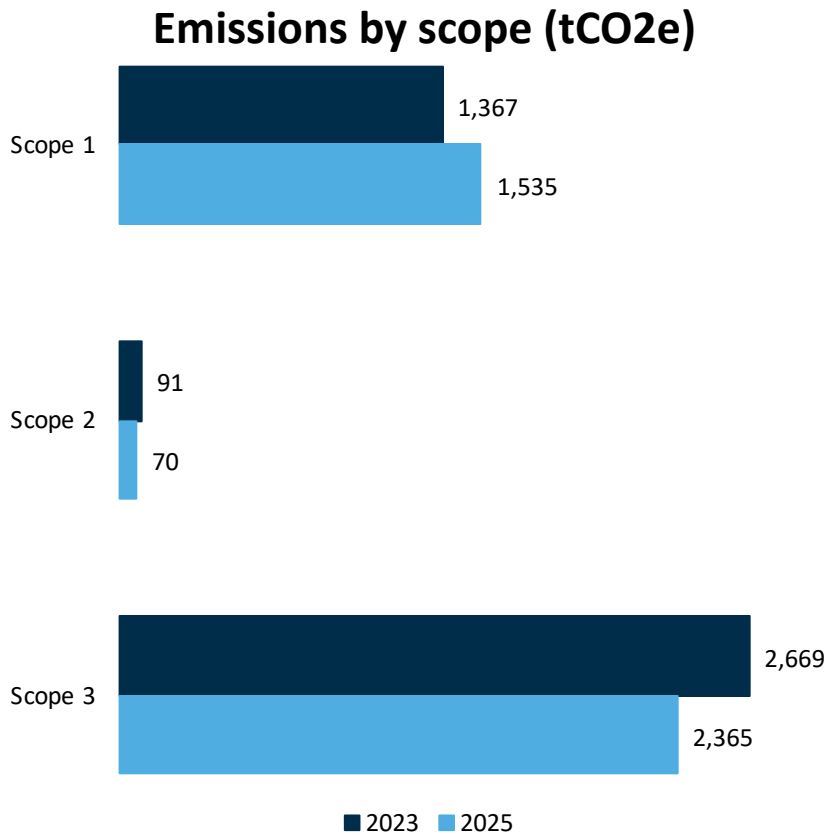
Commitment to Net Zero

Shield Environmental Services is committed to achieving Net Zero emissions by 2045. The table below shows our reported emissions for 2025 against our 2023 baseline year.

Emissions

Emissions (tCO2e)	Baseline year: 2023	Reporting year: 2025	Change
Scope 1	1,367.0	1,534.6	+12.3%
Scope 2 (location-based)	91.3	69.7	-23.7%
Scope 3 (included categories)	2,669.2	2,364.6	-11.4%
Total emissions	**4,127.5**	**3,968.9**	**-3.8%**

Total emissions fell by 3.8% against the baseline. Scope 2 emissions have been calculated using location-based emission factors.



Emissions Breakdown

enistic

Scope 1	2023	2025	Change
Company vehicles: Hybrid diesel car	16.3	4.1	-74.8%
Company vehicles: Hybrid petrol car	23.5	108.1	+360.0%
Company vehicles: Vans	562.6	734.0	+30.5%
Company vehicles: Diesel car	273.5	219.6	-19.7%
Company vehicles: Petrol car	59.6	27.4	-54.0%
Company vehicles: Lorry 2 axles up to 7.5 tonnes	0.8	0.5	-37.5%
Company vehicles: Other	403.8	405.4	+0.4%
Energy: Natural Gas (kWh)	24.5	33.2	+35.5%
Energy: Propane (kg)	2.4	2.3	-4.2%
Total Scope 1	**1,367.0**	**1,534.6**	**+12.3%**

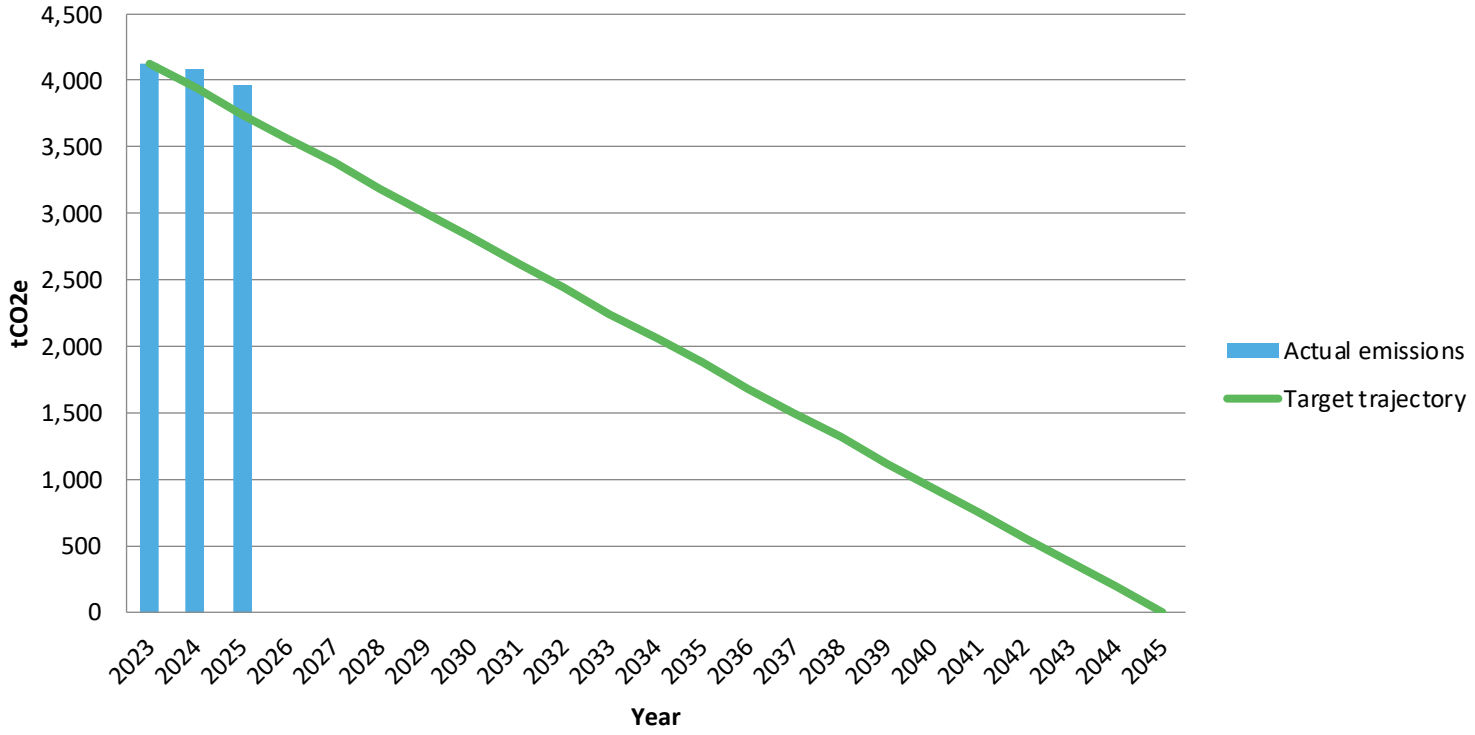
Scope 2	2023	2025	Change
Company vehicles: Electric car	2.8	2.2	-21.4%
Energy: Electricity kWh	88.5	67.5	-23.7%
Total Scope 2	**91.3**	**69.7**	**-23.7%**

Scope 3 source	Cat.	2023	2025	Change
T&D (scope 1 & 2)	3	8.0	7.3	-8.8%
WTT (scope 1 & 2)	3	257.7	290.4	+12.7%
Deliveries (upstream)	4	16.8	10.3	-38.7%
Waste	5	2,141.5	1,997.2	-6.7%
Flights	6	152.2	4.6	-97.0%
Hotel Stays	6	7.4	9.8	+32.4%
Staff mileage	6	44.1	20.7	-53.1%
Commuting	7	41.5	24.3	-41.4%
Total Scope 3		**2,669.2**	**2,364.6**	**-11.4%**

Values in tCO2e. Categories follow the GHG Protocol Corporate Value Chain (Scope 3) Standard. PPN 006 requires Categories 4, 5, 6, 7 and 9 as a minimum. Scope 3.9 is excluded as Shield Environmental Services does not have any emissions associated with downstream deliveries.

Carbon Reduction Targets

To progress towards Net Zero by 2045, we have set a target of an absolute, linear reduction in emissions from our 2023 baseline. This equates to a reduction of approximately 188 tCO2e (4.5% of baseline emissions) each year. In 2025 our emissions were 3,969 tCO2e, 217 tCO2e above our target trajectory of 3,752 tCO2e for that year.



Year	Target (tCO2e)	Actual (tCO2e)
2023 (baseline)	4,128	4,128
2025	3,752	3,969
2030	2,814	
2035	1,876	
2040	938	
2045	0	

Residual emissions remaining at Net Zero after all feasible reductions will be addressed through high-quality carbon removals.

Carbon Reduction Projects

The following carbon reduction measures have been implemented and will be in effect when performing the contract.

Solar Panels

Site: Bristol Head office | Live since May 2025

We are investigating installing solar photovoltaic (PV) panels to power our site. Doing so will reduce (or even virtually eliminate) our electricity emissions, as well as contributing to the global building of renewable energy infrastructure.

150,480
kWh saved per year (est.)

31.9
tCO2e saved per year (est.)

Solar Panels

Site: Bristol SMEF and Fire and Security | Live since April 2024

We are investigating installing solar photovoltaic (PV) panels to power our site. Doing so will reduce (or even virtually eliminate) our electricity emissions, as well as contributing to the global building of renewable energy infrastructure.

26,512
kWh saved per year (est.)

5.62
tCO2e saved per year (est.)

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 006 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 use 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) of Shield Environmental Services.