

Carbon Reporting - Reduction Plan

Supplier name: Systems Engineering and Assessment Ltd (SEA).

Publication date: August 2025

Commitment to achieving Net Zero

SEA is committed to achieving Net Zero emissions by 2050.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions.
Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: FY 2020/2021						
Additional Details relating to the Emissions calculations.						
Reporting deviates from the requirements under PPN 06/21 as follows:						
Scope 1 Emissions not included are						
Process emissions – We have zero process emissions						
EMISSIONS (tCO ₂ e)	BARNSTAPLE	BRISTOL	BECKINGTON	ABERDEEN	Total Emissions per Scope	Total Emissions per £M Turnover (tCO ₂ e/£M)
Scope 1	71.01	64.75	24.39	6.89	167.04	5.96
Scope 2	93.2	31.01	48.14	5.92	178.27	6.37
Scope 3	241.15	2.79	4.14	0.51	248.59	8.88
Total Emissions	405.36	98.55	76.73	13.32	593.97	21.21
Total per £M Turnover (tCO ₂ e/£M)	14.47	3.52	2.74	0.48		
SEA Total Emissions	593.97					
tCO ₂ e/employee	2.47					

Emissions Reduction Targets

We are working towards decreasing our carbon emissions over the next five years to 6.5 tCO₂e per million £ turnover by 2031. This is a projected reduction of 68%.

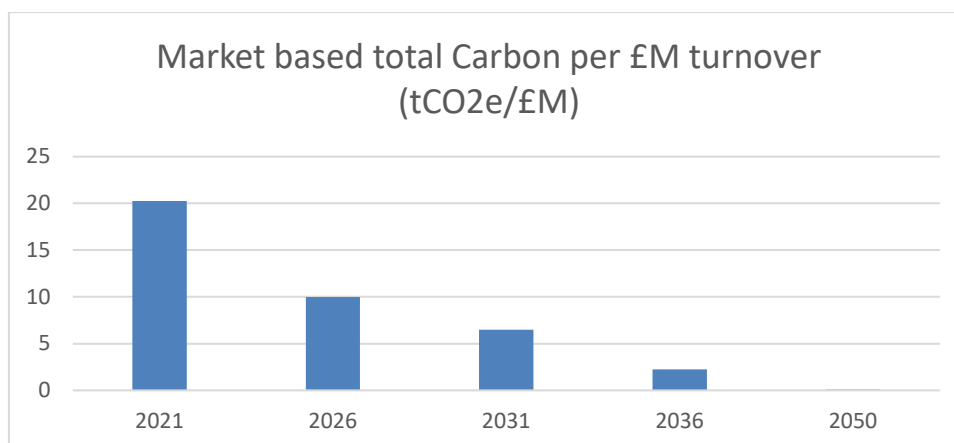
Steady progress has been made to reduce our Scope 1 and Scope 2 emissions by 71% & 70% respectively (per £M turnover) by implementing the initiatives detailed below (**Completed Carbon Reduction Initiatives**).

However Scope 3 emissions have more than doubled due to an increase in air travel across the organisation. Air travel during the 2020/2021 reporting period was not characteristic of normal

operations, due to the global travel restrictions implemented during and following immediately after the COVID-19 pandemic.

Travel at SEA has now returned to normal levels and flights form the majority of our Scope 3 emissions. Measures are already in place to manage air travel. Carbon offsetting will be used to mitigate emissions generated by air travel.

Future decreases in our emissions will be achieved by implementing initiatives as detailed below (**Future Carbon Reduction Initiatives**).



Emissions Footprint 2024 – 2025

Reporting Year: FY 2024/2025						
Additional Details relating to the Emissions calculations.						
Reporting deviates from the requirements under PPN 06/21 as follows:						
• Scope 1 Emissions not included are Process emissions – We have zero process emissions						
Aberdeen site no longer owned or operated by SEA.						
EMISSIONS (tCO ₂ e)	BARNSTAPLE	BRISTOL	BECKINGTON	SEA (not site specific)	Total Emissions per Scope	Total Emissions per £M Turnover (tCO ₂ e/£M)
Scope 1	50.84	29.30	40.57	0	120.71	1.72
Scope 2	76.11	36.54	28.58	0	141.23	1.91
Scope 3	795.38	101.68	415.34	75.80	1388.20	18.76
Total Emissions	922.33	167.52	484.49	75.80	1650.14	22.30
Total per £M Turnover (tCO ₂ e/£M)	12.46	2.26	6.55	1.02		
SEA Total Emissions	1650.14					
tCO ₂ e/employee	3.48					

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2020/21 baseline.

- Switched our electricity to a green energy supplier at all sites
- Implemented a free charge your electric car at work scheme
- Implemented a salary sacrifice scheme for electric vehicles
- Installed additional EV chargers on all of our sites
- Implemented a salary sacrifice scheme, bike to work (which includes electric bikes)
- Implemented a free charge your electric bike at work scheme
- Replaced inefficient boilers with modern condensing alternatives
- Improved facilities at Barnstaple to increase insulation
- Replaced energy inefficient single pane windows and doors at Barnstaple
- Replaced energy inefficient industrial doors with improved insulated versions
- Increased efficiency of production and ancillary areas to improve our output per m²
- Introduced a Production Engineering Team who include environmental requirements and emission reduction during design
- Encouraged the use of online meetings
- Upgraded IT hardware to support working from home and adopted a hybrid working pattern across the organisation

Future Carbon Reduction Initiatives

The following items will be considered for implementation:

- Change of gas suppliers to purchase low carbon alternatives (2027)
- Consider the replacement of gas boilers with hydrogen alternatives or heat pumps when (2030)
- Procurement of pure electric company vehicles (2025/2026)
- Procurement of hybrid company vehicles (2025/2026)
- Investigate the rain water harvesting for grey water use (2026/2027)
- Investigate solar power generation for all sites (2026/2027)
- Introduce Kanban systems to reduce waste (2025 Ongoing)
- Introduce PIR light sensors at Bristol & Beckington (2025/2026)
- Remove and replace any legacy fluorescent lighting (2025/2026)
- Capture and reuse water used in hydrostatic pressure pots (2025/2026)
- Install water efficient toilet cistern systems and taps (2025/2026)
- Increased scrutiny of purchased items to reduce waste (2025 Ongoing)
- Build in freight into delivery lead times to ensure lowest carbon route can be used (sea over air) (2025 Ongoing)
- Support local & relevant green initiatives (2026)
- Improving biodiversity of our green spaces on site (2025)
- Mitigating our emissions resulting from flights and air freight by carbon offsetting (2025)

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 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 the Supplier:



Richard Flitton, Managing Director

Date: August 2025