

Carbon Reduction Plan

Supplier name: ... Infinity Systems Engineering LTD

Publication date: ...25/08/2023.....

Commitment to achieving Net Zero

Infinity Systems Engineering LTD (ISE) is committed to achieving Net Zero in company operations (scope 1 and 2) by 2030, and net zero value chain emissions (scope 3) by 2030.

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: July 2019 to June 2020	
Additional Details relating to the Baseline Emissions calculations.	
<p>ISE is a small systems and safety engineering consultancy based in Bristol, providing services mostly to the defence industry. The majority of its work is computer based and business travel is limited. Rail travel between Bristol and Manchester was required throughout the assessment period, along with trips by car to a client based in South Wales roughly twice a month.</p> <p>ISE used the online carbon calculator on www.carbonfootprint.com to calculate its carbon footprint, for the period 1st July 2019 to 30th June 2020. The calculation used the 2019 metrics developed by the Department for Business, Energy & Industrial Strategy (BEIS) for reporting GHG emissions.</p> <p>The carbon footprint assessment includes:</p> <ul style="list-style-type: none">• Office utility consumption – Scope 2• Car travel – Scope 1• Rail travel – Scope 3 <p>The emissions resulting from office utility consumption have been estimated based on the office employee count (6) using the online carbon calculator.</p>	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	0.58

Scope 2	15.60
Scope 3 (Included Sources)	0.01 (train)
Total Emissions	16.19

Current Emissions Reporting

Reporting Year: November 2021 to October 2022	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	-
Scope 2	1.89
Scope 3¹ (Included Sources)	6.84 (flight, train & commute)
Total Emissions	8.73

Emissions reduction targets

The scope 1 emissions do not apply to ISE as the company do not directly produce Green House Gas Emissions. The company has no vehicles or power production and both heating of the office and electrical used are purchased from a separate party. Vehicles used by employees are owned by said employees, hence the commute emissions produced fall into scope 3. Moreover, whilst no employees currently use it, ISE also has an Electric Car Salary Sacrifice Scheme in place.

Over the previous year ISE has increased its full-time employees from 6 to 16, has secured clients throughout the UK, and attended industry events. This has resulted in an increase in business travel by rail, flight, and car share for necessary site visits and an increase in energy consumption at the office. When possible, ISE used video conferencing facilities to replace some site visits to help reduce emissions. With the increased business travel and increase in employees commuting there was a predicted increase in carbon emissions.

The carbon footprint assessment includes:

- Office utility consumption – Scope 2
- Car travel – Scope 3

¹ The current reporting period for the Business travel category is 1 November to 31 October

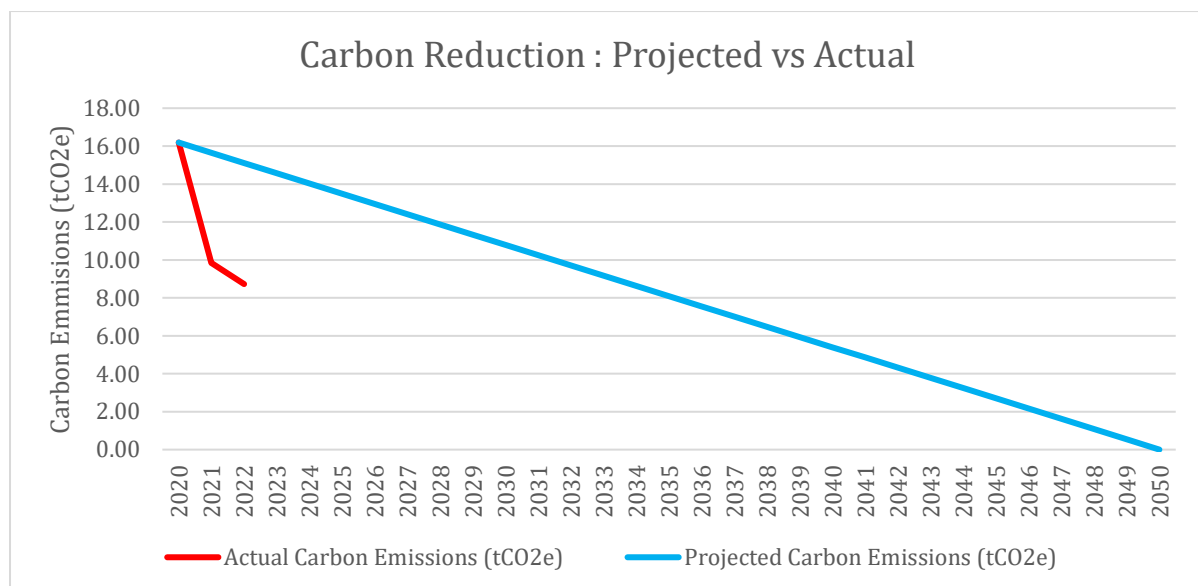
- Rail travel – Scope 3
- Flights – Scope 3

ISE has, on 13 December 2022, offset 20 tonnes of carbon dioxide by supporting the Americas Portfolio of Verified Carbon Reduction Projects and it intends to continue to invest in carbon offsetting.

To continue ISE's progress to achieving Net Zero, it has adopted the following carbon reduction targets.

ISE currently project that carbon emissions will decrease year-on-year by of 19% compared to the baseline of 16.19 tCO₂e. However, actual emissions may fluctuate compared to this projection due to ISE's future growth as a company.

Progress against these targets can be seen in the graph below:



Carbon Reduction Projects

Completed Carbon Reduction Projects

ISE's actual carbon emission for the period until November 2022 amounts to 8.73 tCO₂e, a 46% reduction against the 2020 baseline. The following environmental management measures and projects have been completed or implemented since the 2020 baseline, and the measures will be in effect when performing the contract.

ISE encourages eco-friendly behaviours for employees such as hybrid working, with the majority of working hours done from home. Within these hours staff utilise video conferencing tools for meetings and messaging, with in-person collaboration usually kept to a weekly basis. The same thinking is applied to business travel to client sites, conferences etc., with any travel needed being done with public transportation as first choice.

ISE also invests in sustainable schemes including electric car charging, and a Cycle to Work Scheme. Moreover, ISE is looking to move to its own premises to accommodate the growing number of employees. This in of itself offers new challenges and opportunities regarding sustainability, for example gas heating and selecting renewable energy suppliers.

ISE will continue to contribute to carbon offsetting to ensure that the company is carbon neutral whilst progressing towards net zero carbon emissions. In the current reporting year, ISE invested in 20tCO₂e to more than offset the actual emissions of 8.73 tCO₂e produced. The company will continue to limit business travel to only necessary site visits and conduct video conferencing whenever possible. There are also office procedure aimed at reducing electrical usage, such as ensuring that if there is no one present in the office the lights are not left on.

Planned Carbon Reduction Initiatives

In the future ISE hopes to implement further measures such as:

- Feasibility study of installing renewable energy sources onsite, such as solar panels.
- Commissioning studies into other aspects of ISE's emissions, and implementing the recommendations of those reports. For example, following how an emerging green technology matures.
- Interventions to reduce power consumption focussed on air conditioning, building fabric, insulation, space heating, ventilation and hot water.
- Signing up for the Science-based Targets Initiative (SBTI) to help set targets that will help lead to Net Zero carbon emissions.
- Working towards ISO 14001 implementation.

Declaration and Sign Off

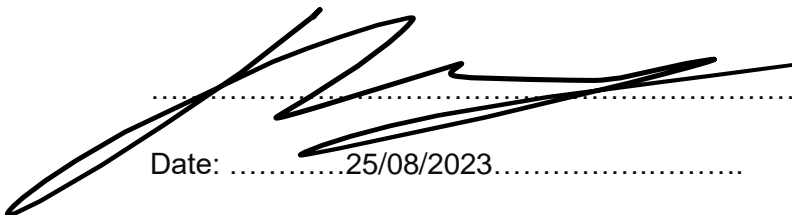
This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard² and uses the appropriate Government emission conversion factors for greenhouse gas company reporting³.

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) Standard⁴.

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:



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Date:25/08/2023.....

² <https://ghgprotocol.org/corporate-standard>

³ <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

⁴ <https://ghgprotocol.org/standards/scope-3-standard>