

FAIRFIELD CONTROL SYSTEMS & FAIRFIELD ENGINEERING SOLUTIONS LIMITED (FAIRFIELD GROUP)

PPN 06/21 CARBON REDUCTION PLAN (CRP)

Client: Fairfield Group

Prepared for:

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Date: November 2023

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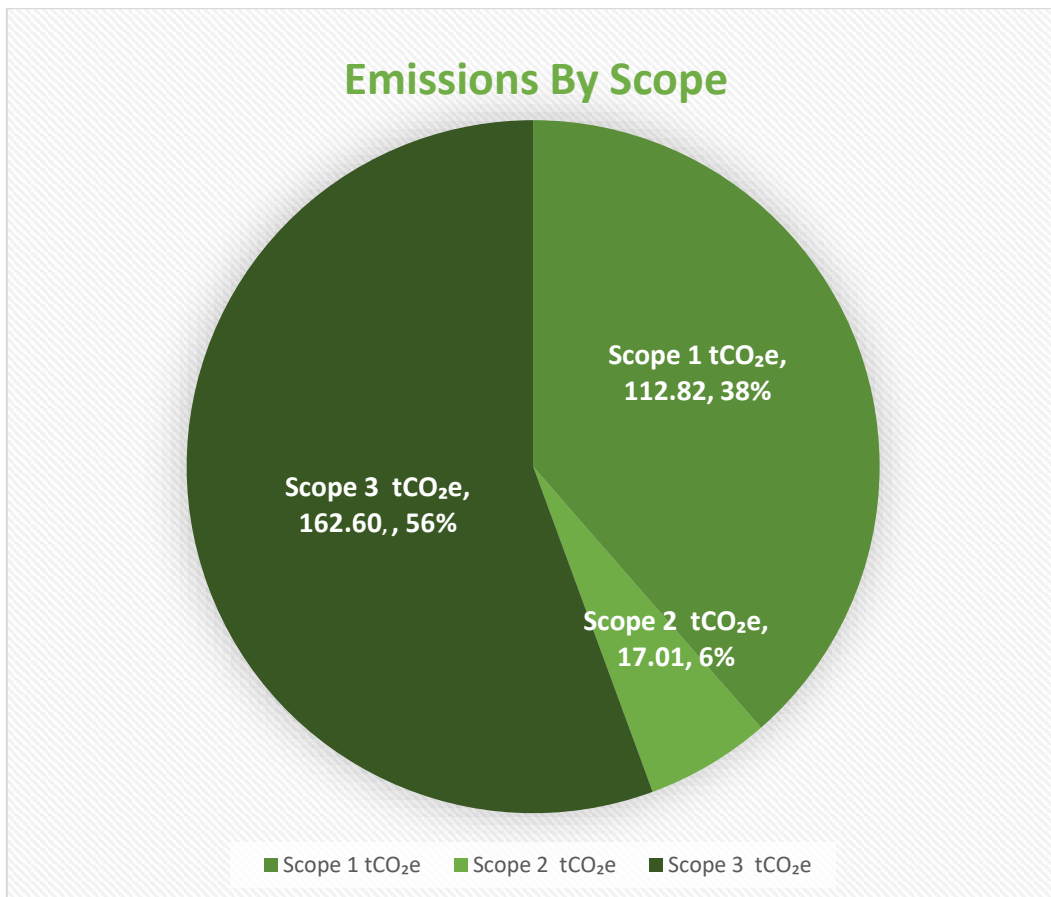
Fairfield Control Systems Ltd. & Fairfield Engineering Solutions Ltd

PPN 06/21 Carbon Emissions & Reduction Plan Report

This is a summary of the PPN 06/21 Carbon Emission & Reduction Plan Report for Fairfield Group for the year 2022.

TOTAL EMISSIONS AND INTENSITY METRICS

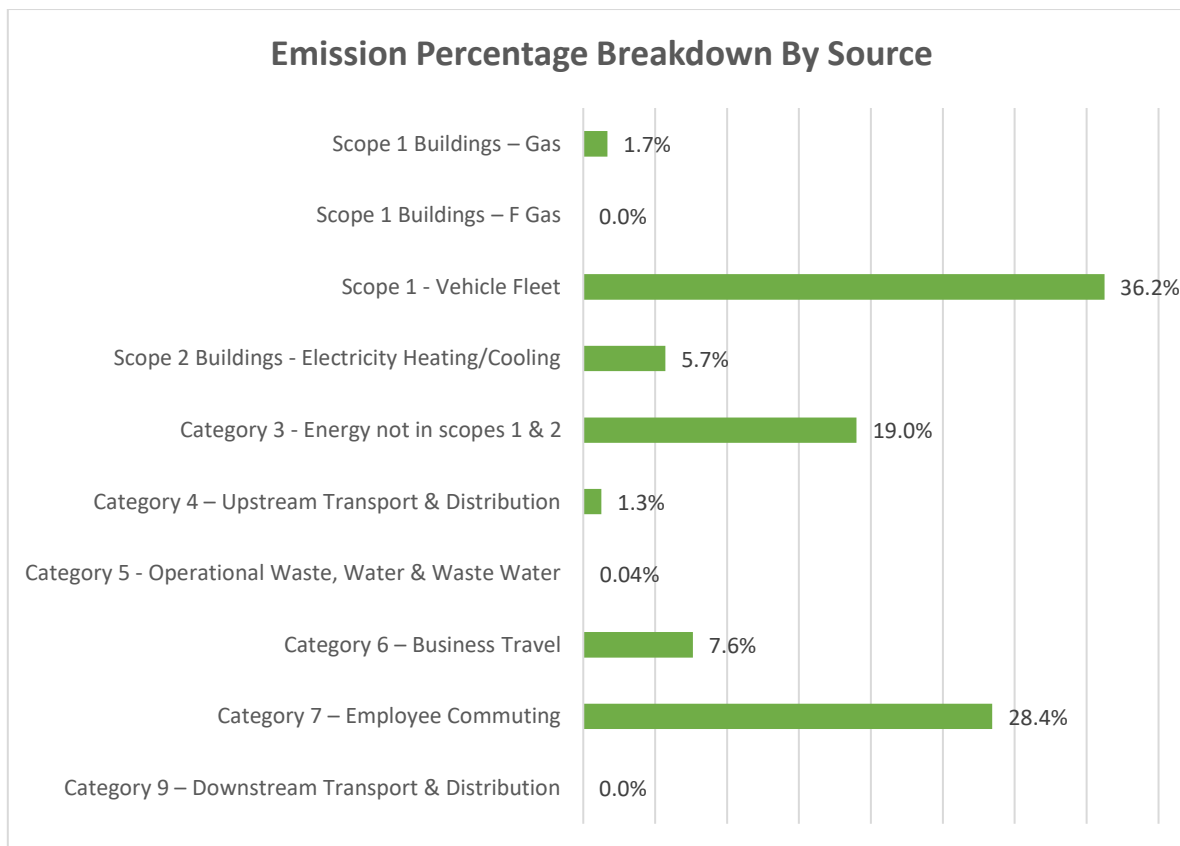
297.92	29.79	3.63
Total tCO₂e	tCO₂e per £1M Turnover	tCO₂e Per Employee



Source	Scope	Category	tCO2e
Buildings – Gas	1	N/A	5.01
Buildings – F Gas	1	N/A	0.00
Vehicle Fleet	1	N/A	107.97
Electricity & Steam Heating/Cooling	2	N/A	17.01
Purchased Good & Services	3	1	0.00
Energy not in scopes 1 & 2	3	3	56.62
Upstream Transport & Distribution	3	4	3.78
Operational Waste, Wastewater & Water	3	5	0.12
Business Travel	3	6	22.68
Employee Commuting	3	7	84.72
Downstream Transport & Distribution	3	9	0.00
Total			297.92

Note: Due to rounding small differences may occur in the figures.

* Emissions for products purchased and transported between the company’s tier 1 suppliers and the company’s operations, in vehicles not owned or controlled by the reporting company and NOT paid for by the reporting company, are NOT included. Data is not available for these emissions. A data improvement plan to address this is currently in progress.



Fairfield Control Systems & Fairfield Engineering Solutions Ltd

PPN/0621 Carbon Reduction Plan

Publication date: **20/10/2023**

Commitment to achieving Net Zero

Fairfield Group is committed to achieving Net Zero emissions by 2050.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that were produced by Fairfield Group for the year indicated and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which future emissions reduction can be measured.

Baseline Year: 2022 (also the first reporting period)	
Additional Details relating to the Baseline Emissions calculations.	
Exclusions The Baseline emissions for this report do not include all of the Scope 3 Category 9 emissions. The transport & distribution of products purchased from tier 1 suppliers is paid for by the suppliers and no data is available from the suppliers. We are working with these suppliers to enable data capture in the future.	
Baseline year emissions: 2022	
EMISSIONS	
Scope 1	112.82 tCO₂e
Scope 2	17.01 tCO₂e
Scope 3 (Included Sources)	167.94 tCO₂e Category 3 – Energy Not Included in Scopes 1 & 2 – 56.62 tCO₂e Category 4 – Upstream Transportation & Distribution – 3.78 tCO₂e

	Category 5 – Operational Waste, Wastewater & Water– 0.12 tCO₂e Category 6 – Business Travel – 22.68 tCO₂e Category 7 - Employee commuting & Remote Working – 84.72 tCO₂e Category 9 – Downstream Transportation & Distribution – Data Not available
Total Emissions	297.92 tCO₂e

Current Emissions Reporting

Reporting Year: 2022	
Exclusions The Baseline emissions for this report do not include all of the Scope 3 Category 9 emissions. The transport & distribution of products purchased from tier 1 suppliers is paid for by the suppliers and no data is available from the suppliers. We are working with these suppliers to enable data capture in the future.	
EMISSIONS	
Scope 1	112.82 tCO₂e
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Total Emissions	297.92 tCO₂e

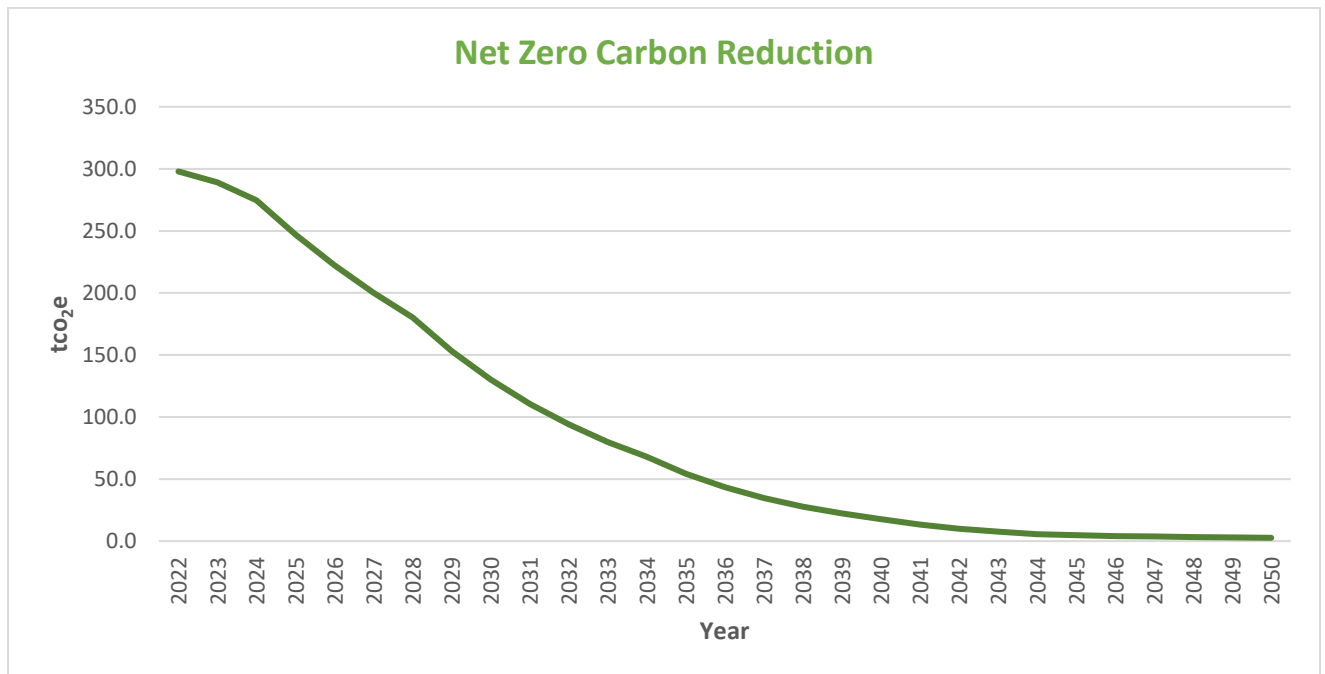
Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted the carbon reduction targets as indicated below.

The graphs below plot the reduction, based on the emissions detailed in this document, to meet the Net Zero target year of 2050. We have modelled it on the expectation that, as carbon reduction technology improves, for example E-Vans become a feasible solution and can be adopted by the business, the percentage reduction each year will increase, and then, as the applicable new carbon reduction technology reduces, the percentage reduction will decline.

We project that carbon emissions will decrease over the next 5 years to 170.9 tCO₂e by 2027. This is a reduction of 33%.

Progress against the targets will be tracked in the graph below.



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

These projects were completed prior to a carbon programme being initiated and no data is available on the carbon emission reduction.

Completed & On-going Projects
Installation of LED Lighting Completed – Q1 2019
Installation of EV chargers x 6 Completed – Q1/2 2023
Employee EV salary sacrifice scheme On-going - initiated Q3 2021
Change to EVs for 3 company cars Change completed – Q4 2020
Fleet Operator Recognition Scheme (FORS) Holder of Bronze Certificate since November 2021. In the process of qualifying for Silver Certificate, expected to complete this by Q3/4 2023.
ISO 14001 Environmental Management System Accredited since September 2013. Yearly audits by UKAS certified agency, BM Trada
BSi PAS 2060 Retained an independent consultant to work with us to implement a company-wide PAS 2060 Carbon Neutrality programme.

Future Carbon Reduction Initiatives & Actions

2023

Feasibility Studies	Projected Annual Carbon Reduction (tCO ₂ e)
Solar Status – under investigation Initial feedback is that, due to local supply network capacity restriction, this may not be viable. Further investigation is being undertaken to understand the detail of the capacity restriction.	TBD
Voltage Optimisation Status – under investigation A technical and commercial business case is being prepared. We expect to complete this by the end of July. Should be business case be viable, we expect to complete the project by the end of Q1 2024.	Estimate 5-7% of Scope 2 emissions 1 tCO ₂ e
Smart sockets Status – under investigation	Estimate 10-15% of Scope 2 emissions 3 tCO ₂ e

A technical and commercial business case is being prepared. We expect to complete this by the end of July. Should the business case be viable, we expect to complete the project by the end of Q1 2024.

Phased move to Plug-In Hybrid Vans
Status – under investigation

Scope 1 Company Vehicle Fleet is the single largest emission group. An initial investigation has determined that E-Vans are not, at this time, a feasible solution. The feasibility of Plug-In Hybrid vans will be investigated in 2023.

Actions

Gather data from our suppliers on their Net Zero commitments

Introduce education and awareness of our operations and how our staff can make a difference in our carbon Net Zero journey

Explore incentives for employees to switch to renewable energy at home

TBD

2024

Feasibility Studies

Switch to Renewable Energy Tariff

Initial move to Plug-In Hybrid vans (subject to outcome of above Feasibility Study)

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 reporting².

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) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

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

Signed on behalf of the Supplier:



Date: November 2023