

# Carbon Reduction Plan

**Supplier Name: FAIRTRADE VENDING LTD**

**Publication date: 23<sup>rd</sup> August 2023**

## **Commitment to achieving Net Zero**

Fairtrade Vending Ltd is committed to achieving Net Zero emissions by 2040.

## **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.

<b>Baseline Year: 01.01.22 to 31.12.22</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
We had our first baseline report for the above Baseline Year in March 2023 – Scope 1 & 2 only	
<b>Baseline year emissions: Jan 2022 to Dec 2022</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
Scope 1	28.81 tCO <sub>2</sub> e
Scope 2	2.32 tCO <sub>2</sub> e
Scope 3	To be calculated and reviewed in the future
<b>Total Emissions</b>	<b>31.13 tCO<sub>2</sub>e</b>

## Current Emissions Reporting

Reporting Year: Jan 2023 to Dec 2023 (estimated)	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	21.67
Scope 2	2.20
Scope 3 (Included Sources)	N/A
<b>Total Emissions</b>	<b>23.87 tCO<sub>2</sub>e</b>

### Emissions reduction targets

#### Introduction:

In pursuit of our commitment to achieving Net Zero emissions, we have implemented a comprehensive set of carbon reduction targets. This report outlines the measures taken and the progress achieved in our efforts to mitigate carbon emissions.

#### Carbon Reduction Targets:

To facilitate our journey towards Net Zero, we have set forth the following carbon reduction targets:

**Baseline Year Calculation:** To establish a reference point for our carbon emissions reduction efforts, we have focused on the baseline year spanning January 2023 to December 2023. However, as this period is not yet complete, we have extrapolated data from January 2023 to July 2023 to estimate the twelve-month average for the baseline year. This extrapolated data has enabled us to perform a preliminary assessment of our carbon emissions.

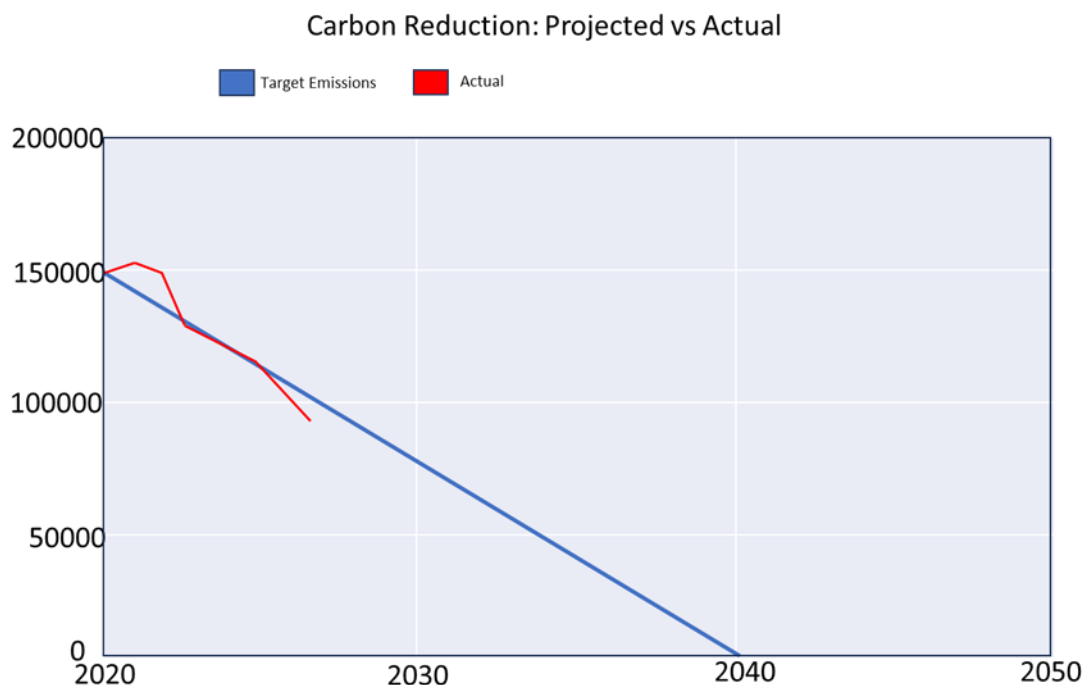
**Notional Carbon Emission Calculation:** Utilising the extrapolated data, we have derived a notional carbon emission calculation for the aforementioned period. It's important to note that this calculation is provisional and subject to refinement once we have access to the actual kilowatt-hour (kWh) consumption data for the full twelve-month period. This forthcoming data will enable us to accurately establish the baseline for carbon emissions, thereby providing a robust foundation for evaluating emissions in the coming years.

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**Year-on-Year Comparison:** Comparing the most recent data available from January 2022 to December 2022 (Last Year), we have observed a notable reduction in carbon emissions across different scopes. Specifically, there has been a decrease of 24.81% in Scope 1 fuels and a decrease of 1.05% in Scope 2 electricity consumption. This combined reduction equates to a decrease of 8.0 metric tons of CO<sub>2</sub> equivalent (tCO<sub>2</sub>e).

**Projected Emissions Reduction:** Our forward-looking analysis anticipates a consistent downward trajectory in carbon emissions. We project an annual reduction of approximately 10% over the next five years. By the year 2028, we estimate carbon emissions to reach 15.66 tCO<sub>2</sub>e. This projected value represents a substantial reduction of 34.39% compared to the baseline year, thereby underlining our commitment to a substantial carbon footprint reduction.

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



## Carbon Reduction Projects

Our carbon reduction strategy encompasses the following initiatives, each targeted at achieving substantial reductions in carbon emissions:

**Transition to Electric Vehicles:** Over the course of the next five years, we are systematically phasing out all remaining diesel vehicles and replacing them with electric vehicles (EVs). This strategic shift not only aligns with environmental goals but also supports the adoption of cleaner and more sustainable transportation options.

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**Window Upgrade to Double Glazing:** The replacement of single glazed windows with double glazing is nearing completion. This upgrade enhances energy efficiency within our facilities and contributes to the reduction of heat loss, thereby minimising energy consumption.

**Energy-efficient Equipment Replacement:** A cornerstone of our strategy is to prioritise energy efficiency during equipment replacements. By sourcing replacements with the highest energy efficiency rating possible, we ensure that energy consumption is minimised over the entire lifecycle of the equipment.

**Optimised Electric Heating:** The implementation of thermostatically controlled electric heaters ensures that indoor temperatures are maintained at an energy-efficient level of approximately 19 degrees Celsius. This temperature regulation contributes to both comfort and energy conservation.

**Smart Power Management:** We emphasise responsible power management by enforcing the practice of switching off electronic equipment when not in use. This proactive approach avoids unnecessary energy consumption associated with equipment left on standby.

**Passive Infrared Sensors (PIRs) Installation:** Where feasible, we are installing Passive Infrared Sensors (PIRs) to control lighting systems. This smart technology detects motion and presence, enabling the efficient operation of lighting and significantly reducing energy wastage.

**Future Considerations for Expansion:** In the event of business expansion beyond the original Baseline Year (Jan 2022 to Dec 2022), our strategy is adaptable to incorporate a carbon emission "unit cost." This entails introducing a metric known as the "carbon emission intensity factor." This factor enables the calculation of carbon emissions per job carried out in subsequent years, such as comparing emissions in 2024 to those in 2023.

**Achievements and Progress:** The environmental management measures and projects outlined above have been progressing according to plan. Notably, the replacement of single glazed windows and the replacement of one vehicle have been completed, while other initiatives are underway. Collectively, these initiatives have yielded a carbon emission reduction of approximately 8.0 metric tons of CO<sub>2</sub> equivalent (tCO<sub>2</sub>e). This achievement represents a commendable 25% reduction against the 2022 Baseline.

Importantly, these measures will be in full effect during contract execution, reinforcing our dedication to sustainable practices throughout our operations.

**Conclusion:** In conclusion, our organisation remains dedicated to the pursuit of Net Zero emissions. Through diligent data extrapolation, notional emission calculations, and year-on-year comparisons, we have made notable strides in reducing carbon emissions. Our proactive projections highlight a promising path ahead, where continued efforts are poised to yield even greater reductions. As we move forward, our commitment to sustainability remains unwavering, and we will adapt our strategies in response to actual consumption data to ensure the accuracy and effectiveness of our carbon reduction initiatives.

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## 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<sup>1</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>2</sup>.

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<sup>3</sup>.

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:**



Name: Robert M Steel

Position: Managing Director

Date: 23 August 2023

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