

# Carbon Reduction Plan

Supplier Name: EMSc (UK) Ltd t/a Powerstar

Publication Date: 25/11/2025

## Commitment to Achieving Net Zero

Powerstar 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.

<b>Baseline Year:</b> 2022 (1 <sup>st</sup> September 2021 – 31 <sup>st</sup> August 2022)	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
This is Powerstar's first Greenhouse Gas Assessment, therefore the reporting year is the same as baseline year.	
<b>Baseline year emissions: 2022</b>	
<b>EMISSIONS</b>	<b>TOTAL 532.4 (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	80.5 tCO <sub>2</sub> e, from <ul style="list-style-type: none"> <li>- Stationary combustion (gas): 33.5 tCO<sub>2</sub>e</li> <li>- Mobile combustion (driving): 46.9 tCO<sub>2</sub>e</li> </ul>
<b>Scope 2</b>	37.2 tCO <sub>2</sub> e from electricity usage
<b>Scope 3 (Included Sources)</b>	414.6 tCO <sub>2</sub> e, from <ul style="list-style-type: none"> <li>- Upstream transportation and distribution: 0.5 tCO<sub>2</sub>e</li> <li>- Downstream transportation and distribution: 3.5 tCO<sub>2</sub>e</li> <li>- Business travel: 1.4 tCO<sub>2</sub>e</li> <li>- Commuting including work from home: 191.2 tCO<sub>2</sub>e</li> <li>- Waste generated in operations: 12.1 tCO<sub>2</sub>e</li> <li>- Other fuel- and energy-related activities: 8.7 tCO<sub>2</sub>e</li> <li>- Purchased goods and services: 175.3 tCO<sub>2</sub>e</li> <li>- Capital goods: 22.1 tCO<sub>2</sub>e</li> </ul>
<b>Total Emissions</b>	<b>532.4 tCO<sub>2</sub>e</b>

## Current Emissions Reporting

Reporting Year: 2024	
EMISSIONS	TOTAL 505.8 (tCO <sub>2</sub> e)
Scope 1	77.4 tCO <sub>2</sub> e, from <ul style="list-style-type: none"> <li>- Stationary combustion (gas): 32.3 tCO<sub>2</sub>e</li> <li>- Mobile combustion (driving): 45.1 tCO<sub>2</sub>e</li> </ul>
Scope 2	31.9 tCO <sub>2</sub> e from electricity usage
Scope 3 (Included Sources)	396.5 tCO <sub>2</sub> e, from <ul style="list-style-type: none"> <li>- Upstream transportation and distribution: 0.5 tCO<sub>2</sub>e</li> <li>- Downstream transportation and distribution: 3.5 tCO<sub>2</sub>e</li> <li>- Business travel: 1.4 tCO<sub>2</sub>e</li> <li>- Commuting including work from home: 176.2 tCO<sub>2</sub>e</li> <li>- Waste generated in operations: 10.9 tCO<sub>2</sub>e</li> <li>- Other fuel- and energy-related activities: 7.3 tCO<sub>2</sub>e</li> <li>- Purchased goods and services: 175.5 tCO<sub>2</sub>e</li> <li>- Capital goods: 21.2 tCO<sub>2</sub>e</li> </ul>
Total Emissions	505.8 tCO <sub>2</sub> e

## Emissions Reduction Targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets, and project that carbon emissions will decrease over the coming years to reach Net Zero by 2050.

### Baseline 2022 figures 532.4 tCO<sub>2</sub>e

- Scope 1: 15.1% of total baseline emission
- Scope 2: 7.0% of total baseline emissions
- Scope 3: 77.9% of total baseline emissions

### Baseline measures for tracking

- 2025: 15% Reduction in tCO<sub>2</sub>e from 2022 Baseline 532.4 tCO<sub>2</sub>e
- 2030: 20% Reduction in tCO<sub>2</sub>e from 2025 Baseline 451.9 tCO<sub>2</sub>e
- 2040: 30% Reduction in tCO<sub>2</sub>e from 2030 Baseline 362.3 tCO<sub>2</sub>e
- 2050: Net Zero

## Achieving Net Zero Status

To achieve Net Zero status, we shall implement the following initiatives:

### Scope 1 Emissions (Direct)

- Remove emissions from stationary combustion by the current heating system with electric heating, once electricity has been sourced from renewable sources (6.3% reduction)
- Remove emissions from mobile combustion by where possible replacing the company owned vehicles that burn fossil fuels with electric vans and cars (8.8% reduction)

### Scope 2 Emissions (Indirect)

- Educate employees on carbon reduction initiatives that encourage behavioural changes to reduce electricity usage, such as turning off screens
- monitors when away from the desk, careful consideration before printing, opting paper-free whenever possible and using fewer office consumables such as staples and unplugging chargers
- Progressively move to 100% of electricity purchased for our facilities from renewable sources, including Ofgem certified green energy tariffs (6.3% reduction)

### Scope 3 Emissions (Indirect)

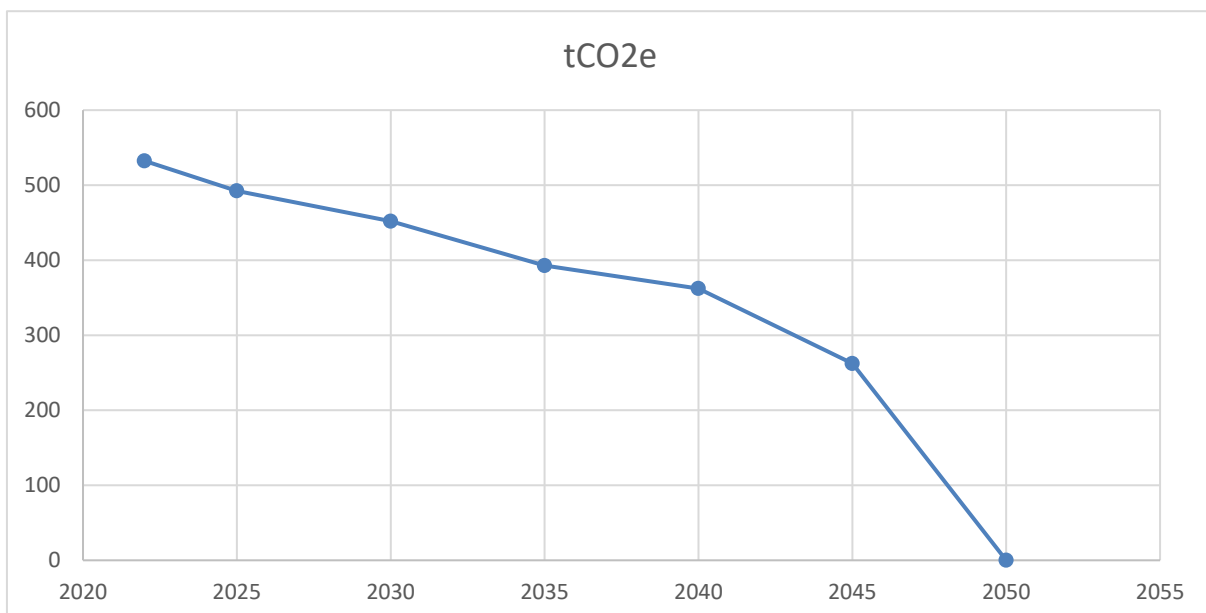
- Using low carbon materials (9.9% reduction)
- Promoting car sharing and alternative transport for commuting to work (10.5% reduction)

## Offsetting

The remaining carbon emissions after implementing the reduction initiatives will be offset using accredited carbon offset providers who invest in projects that do not rely solely on tree-planting initiatives, such as reforestation, this is because these projects can be vulnerable to the consequences of climate changes such as wildfires (remaining 362.3 tCO<sub>2</sub>e).

The carbon intensity ratio of the company in the baseline year is 4.3

tCO<sub>2</sub>e/head. Progress against these targets can be seen in the graph below



## Carbon Reduction Projects

### Planned Carbon Reduction Initiatives

Baseline reductions and improvements link to the following KPI:

- Company vehicle emission reductions: Contribution of 46.9 tCO<sub>2</sub>e to Scope 1 look to reduce
- Energy usage, move to renewable Green Energy and reduce: Contribution of 37.7 tCO<sub>2</sub>e to Scope 2 look to reduce usage and increase green energy
- Employee commuting and business travel reductions: Contribution of 192.6 tCO<sub>2</sub>e to Scope 3 look to reduce, encourage people to work from home and conduct online meetings where possible
- Reduction of 20% on General Waste: Introduction of EA Simpler Recycling
- Reduction of 10% Hazardous/Manufacturing Waste: Reduction of waste product from manufacturing and recycling of items, currently 2.9% of Scope 3
- Water usage reduction: set baseline and understand reduction possibilities

## 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>4</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>5</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>6</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 EMSc (UK) Ltd t/a Powerstar**

Chris Boyd, Head of SHEQ



Date: November 26<sup>th</sup>, 2025

<https://ghgprotocol.org/corporate-standard> <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

<sup>6</sup><https://ghgprotocol.org/standards/scope-3-standard>