

Carbon Reduction Plan for JOHN HORSFALL GROUP*

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*This report details the emissions and carbon reduction targets for John Horsfall & Sons Ltd and Interweave Textiles Ltd., both companies are wholly owned by John Horsfall & Sons (Greetland) Ltd. Other emissions arising solely from John Horsfall & Sons (Greetland) Ltd. operations have not yet been considered in the following assessment.

Our Commitment.

John Horsfall & Sons Ltd. and Interweave Textiles Ltd. (hereafter referred to as John Horsfall Group) are committed to achieving Net Zero emissions by 2050.

What does Net Zero mean in practice?

To achieve Net Zero, we will be aiming to reduce emissions in line with the latest science-based targets (SBTs). SBTs are greenhouse gas reduction goals set by organisations. They are defined as “science-based” when they align with the scale of reductions required to limit global temperature increases to 1.5°C compared to pre-industrial temperatures. SBTs provide organisations with pathways to sustainable transformational change to accelerate the transition to a low carbon economy.

For us, this means that we will need to reduce our absolute carbon emissions by at least 90% from our baseline year, or achieve (and maintain) a carbon intensity metric of <1 tonne CO₂e per employee, whichever comes soonest. To keep ourselves on track with these long-term targets, we have set the following near-term goals:

- Reduce our Scope 1 & 2 emissions by 42% by 2030.
- Reduce our Scope 3 emissions by 20% from our baseline year by 2026.
- Reduce our Scope 3 emissions by 30% from our baseline year by 2030.

Scope 1 emissions: direct greenhouse gas emissions that occur from sources owned or controlled by a company, such as emissions from combustion of fuels in on-site boilers, furnaces, or vehicles.

Scope 2 emissions: indirect greenhouse gas emissions that result from the generation of purchased electricity, steam or other forms of energy consumed by a company.

Scope 3 emissions: all other indirect greenhouse gas emissions that occur in an organisation's value chain, including emissions from upstream and downstream activities.

Our Carbon Footprint.

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. We have chosen to set our baseline year as 1st January 2022 – 31st December 2022.

Previously published emissions at John Horsfall Group have been restated within this report, due to updates to the published emissions factors which were applied.

Baseline Year: 2022

What has been included in the carbon footprint?

All Scope 1 & 2 emissions have been measured, plus the following Scope 3 Emissions:

- Purchased Goods & Services
- Capital Goods
- Fuel & Energy Related Services
- Business Travel
- Transportation & Distribution (Downstream)
- Transportation & Distribution (Upstream)
- Employee Commuting & Home Working
- Operational Waste & Water
- Leased Assets (Upstream)
- Leased Assets (Downstream)
- Franchises
- Investments

EMISSIONS	TOTAL (tonnes CO ₂ e)
Scope 1	110.7
Scope 2*	Market-based: 38.6

	Location-based: 41.4
Scope 3	13,025.1
Total Emissions*	Market-based: 13,177.3 Location-based: 13,174.4

**Purchased electricity can be measured in two ways. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen (or their lack of choice). A market-based method therefore takes into account the purchase of electricity via a verified renewable energy tariff. We have chosen to base our Net Zero target on a market-based methodology.*

Carbon Intensity Metrics

Baseline year: 2022	CARBON INTENSITY METRIC (tonnes CO ₂ e / unit)
Employees	268.9

Based upon 49 FTE employees during the measurement period.

Current Emissions Reporting

Current Reporting Year: 1st January 2024 – 31st December 2024

What has been included in the carbon footprint?

All Scope 1 & 2 emissions have been measured, plus the following Scope 3 Emissions:

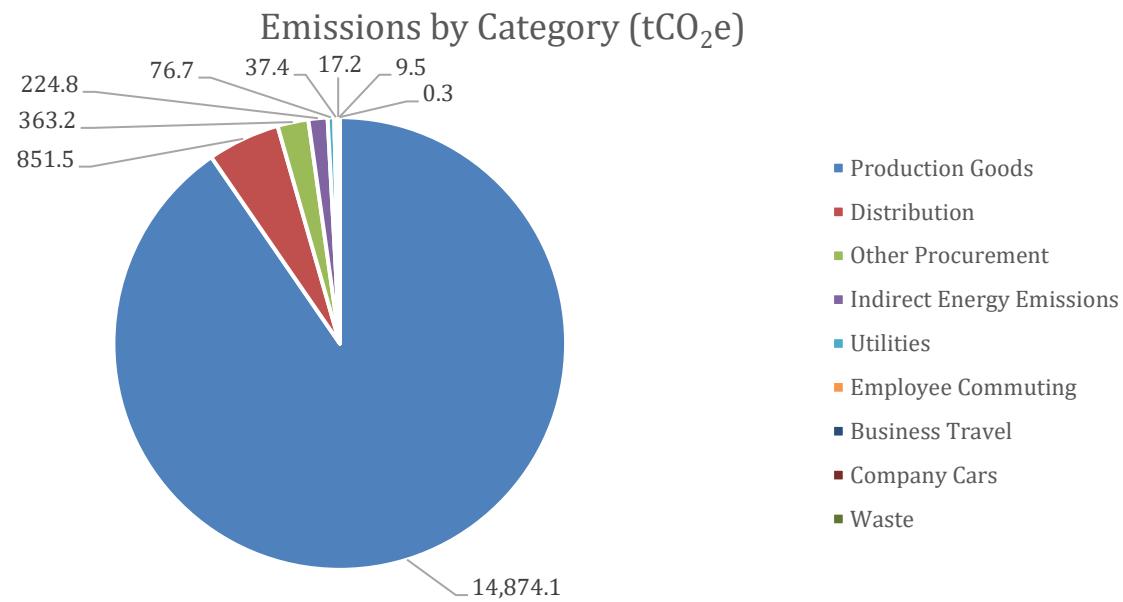
- Purchased Goods & Services
- Capital Goods
- Fuel & Energy Related Services
- Business Travel
- Transportation & Distribution (Downstream)
- Transportation & Distribution (Upstream)
- Employee Commuting & Home Working
- Operational Waste & Water
- Leased Assets (Upstream)
- Leased Assets (Downstream)
- Franchises
- Investments

EMISSIONS	TOTAL (tonnes CO ₂ e)
Scope 1	63.0
Scope 2*	Market-based: 23.2 Location-based: 23.2
Scope 3	16,368.6
Total Emissions*	Market-based: 16,454.8 Location-based: 16,454.8

Current year: 2024	CARBON INTENSITY METRIC (tonnes CO ₂ e / unit)
Employees	382.7

Based upon 43 FTE employees during the measurement period.

Carbon Emissions Breakdown



Carbon Reduction.

Our Net Zero targets

John Horsfall Group is committed to achieving Net Zero by 2050. To do this, we will need to reduce our absolute carbon emissions by at least 90% from our baseline year, or achieve (and maintain) a carbon intensity metric of <1 tonne CO₂e per employee, whichever comes soonest.

We have set the following near-term targets to 2030 to keep ourselves on track with our ultimate Net Zero goal. Targets for the remaining period will be set as we progress closer to 2030.

- Reduce our Scope 1 & 2 emissions by 42% by 2030.
- Reduce our Scope 3 emissions by 20% from our baseline year by 2026.
- Reduce our Scope 3 emissions by 30% from our baseline year by 2030.

Progress since Baseline Year:

- Scope 1 emissions reduced by 48tCO₂e (43%)
- Scope 2 emissions reduced by 15tCO₂e (40%)
- Scope 3 emissions increased by 3,343.4tCO₂e (26%)
- Total emissions increased by 3,280tCO₂e (25%)

Although Scope 3 (and therefore total) emissions have significantly increased in the Current Reporting Year, John Horsfall Group remains committed to achieving its outlined near-term targets. With greater data quality across its materials and *Production Goods*, it is anticipated that Scope 3 emissions reductions shall become more achievable.

The Scope 1 near-term target has been achieved 6 years ahead of the outlined timeframe.

The Scope 2 near-term target is far ahead of the initially outlined timeframe, with an expectation of achieving the target by 2028.

John Horsfall Group shall maintain its progress.

Completed Carbon Reduction Initiatives

The following emissions management measures and projects have been completed or implemented since the start of our baseline reporting period.

Activity	Completion Date	Scope
<p>Commit to measuring carbon footprint of business activities year on year to gain an understanding of pinch points and regularly be making efficient and direct improvements to reduce these emissions.</p> <p>Year 1 appointed Positive Planet to support with calculating baseline carbon footprint and reduction recommendations.</p>	2022	1,2,3
<p>Created a Green Team to lead initiatives. This team has been made up of members from different departments to support the roll out of initiatives and management of data, this includes sharing and collaborating throughout the organisation.</p>	2022	1,2,3
<p>Replacement of 30000 sq ft roof at the Elland Warehouse to reduce energy transfer and therefore reduce heating demand.</p>	2023	1,2
<p>Installation of 102 solar panels at the Elland Warehouse Facility</p>	2023	2
<p>Hull Facility moved to a smaller unit, to increase the efficiency of space usage & therefore reduce consumption of gas and electricity.</p>	2023	1,2
<p>Installation of LED lighting in the new Hull Unit.</p>	2023	2

Revised sourcing of products and manufacturing at the Hull facility to reduce waste.	2023	3
Resizing of products purchased abroad to allow the more efficient use of shipping container space.	2023	3
Moved the Hull Production Facility to an alternative site which is more energy efficient. This action has reduced energy consumption by >150,000kWh and >40,000kWh across gas and electricity respectively, compared with the baseline year.	2023	1, 2
Lighting at the Birkby Grange head office has been upgraded to LEDs – this was a replacement of 209 bulbs, and will reduce total electricity demand at the site.	2024	2
The Victoria Works site had LED lighting installed, along with 560 square feet of roofing replaced with a more insulating material.	2024	1, 2
We advocate for optimum efficiency when distributing orders, to reduce total distribution emissions. Recently, we have tested compressing the air from cushions to reduce the area required per unit.	2024	3
Procurement of additional Plug-In Hybrid vehicles within the fleet. This has reduced Scope 1 emissions further.	2024	1, 2
Introduction of Battery Electric Vehicles to the fleet at John Horsfall Group.	2025	1, 2

Future Carbon Reduction Plans

We are committing to action the following emissions management measures and projects in line with our Net Zero targets.

REDUCTION PLANS – Scope 1 & Scope 2			
Activity No.	Activity	Target Date	Category
1	Investigate the efficiency of the existing boiler systems at occupied sites, to understand whether efficiencies may be achieved.	2029	Stationary Combustion
2	Procure a 100% renewable electricity tariff at all sites. This change will reduce market-based emissions to 0 tCO2e.	2027	Purchased Electricity
3	Establish within the Procurement Policy that all new purchased passenger cars will be Plug-In Hybrid or Battery Electric.	2027	Mobile Combustion Purchased Electricity

Based upon the above completed and planned initiatives, it is projected that Scope 1 & 2 carbon emissions will continue to decrease in the near-term.

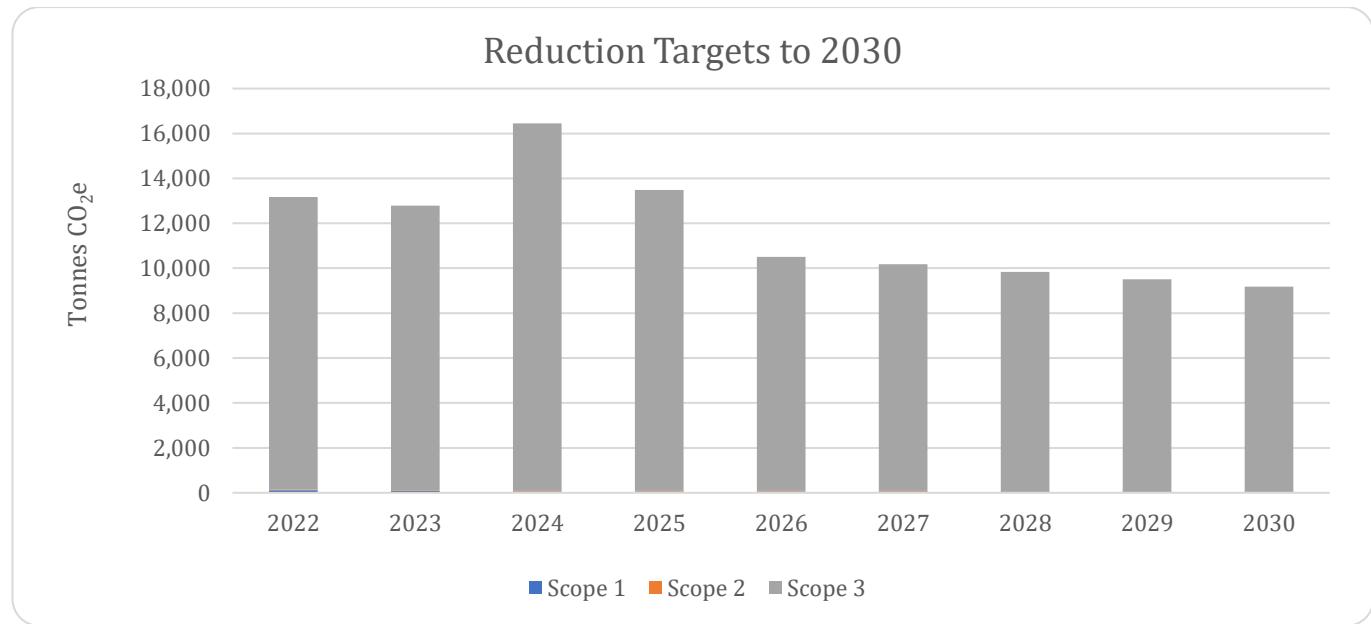
REDUCTION PLANS – Scope 3

Activity No.	Activity	Target Date	Category
1	<p>Consider training and engagement for the Green Team, leadership, and the wider employee base. Including and not limited to, creating spaces for environmental positive conversations (internal comms, newsletters, slack, Teams etc), certified Carbon Literacy Training for all applicable to roll out to further workforce and share with externals where appropriate.</p> <p>On average, certified learners reduce their carbon footprints by 5-15%, of which ~50% are work-related.</p>	2027	Commuting & Home Working Business Travel
2	<p>Implement a Sustainable Procurement Policy. Encourage suppliers to adopt sustainable practices and improve their own carbon footprint through supplier engagement, procurement policies and contracts, and monitoring reporting mechanisms.</p> <p>Commit to a Sustainability Audit or Survey to request further information regarding credentials – Plan to send these to the Top 20% of suppliers by spend. This data collection will support reduction journey by gathering important data for year two</p>	2024 - 2027	Purchased Goods & Services

	<p>measurement & encourage supply chain integration towards Net Zero.</p> <p>Complete this audit within Two Phases –</p> <ol style="list-style-type: none"> 1. Identify suppliers for engagement. 2. Formulate and collect data (survey/scoring) <p>Once completed prioritise suppliers with lower carbon footprints as part of the above phased approach.</p> <p>Develop and monitor procurement policy for all new suppliers to align to Net Zero goals.</p>		
3	<p>Review logistics partners/couriers and utilise the above Sustainable Procurement Policy. Work with providers to gather their emissions data, and/or switch to lower-carbon providers.</p>	2025 - 2027	<p>Upstream Distribution</p> <p>Downstream Distribution</p>
4	<p>Develop and implement a Sustainable Travel Policy to support environmental impact of choices when travelling, staying in hotels and commuting. The priorities within this policy will support active travel and low emission travel options where appropriate.</p> <p>Monitor and consider alternatives to air-based travel as a priority and commit to offering support to workforce with options for active travel schemes; such as bike to work or car sharing opportunities.</p> <p>Utilise the emissions travel hierarchy –</p>	2026	<p>Business Travel</p> <p>Commuting</p>

	<p>Digital communication</p> <p>Walking & wellbeing</p> <p>Cycling</p> <p>Public and shared transport</p> <p>Public and shared EV's and car sharing</p> <p>ICE vehicles and car sharing</p> <p>Air Travel</p> <p>Consider creative ways to engage and support the workforce to influence change.</p>		
5	<p>Include information for clients regarding the estimated carbon footprint of the materials they are purchasing, to reduce overall demand for those products with the highest emissions.</p>	2029	Purchased Goods & Services
6	<p>Prioritise organic and lower emission materials when purchasing from suppliers. Aim to reduce total purchase of poly- fibres by 10%.</p>	2028	Purchased Goods & Services
7	<p>Report full Scope 3 emissions at John Horsfall Group. Currently, downstream emissions from <i>Processing of Sold Products, Use of Sold Products, End-of-Life of Sold Products</i> are not included.</p>	2027	Product Emissions

Based upon the above completed and planned initiatives, it is projected that Scope 3 carbon emissions will further decrease by 2030. The actions highlighted shall keep John Horsfall Group on track to achieve Net Zero emissions.



The chart above describes projected emissions reductions based upon the agreed carbon reduction actions. Results for reporting years 2022, 2023, 2024 are actuals as reported.

Declaration and Sign Off.

This Carbon Reduction Plan has been completed in accordance with PPN 006 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 ¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting ².

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 ³.

This Carbon Reduction Plan has been reviewed and signed off by the John Horsfall Group Executive Team.

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>