



Carbon Reduction Plan For Ark-H Handling Limited



Our Commitment

Ark-H Handling is 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. To achieve Net Zero under this scenario, we will need to reduce our absolute emissions by 90% from our baseline year.

SBTi recommends that organisations commit to near-term targets (that cover a minimum of 5 years/maximum of 10 years from the baseline year), as well as long-term targets.

Our near-term targets:

- Scope 1 & 2 emissions by 50% by 2030 and to zero by 2035, from our base year.
- To procure 100% renewable electricity by 2030.
- Reduce Scope 3 emissions by 26% by 2030 from our base year.
- Measure all downstream scope 3 categories by 2026.

Our long-term targets:

- Reduce our total market-based emissions (scope 1, 2 and 3) by at least 90% by 2050.
- Neutralise any residual emissions using verified carbon removals.

Scope 1 emissions: direct greenhouse gas emissions that occur from sources owned or controlled by a company, such as emissions from the 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 January – December 2024.

As part of strengthening our data quality and ensuring our Carbon Reduction Plan remains accurate and representative, we have undertaken a re-baselining exercise. Updated and previously unavailable activity data from suppliers and operational records have now been incorporated, resulting in a more robust baseline against which future performance will be measured. This re-baselining improves the integrity of our reporting and ensures our reduction trajectory reflects the best available information.

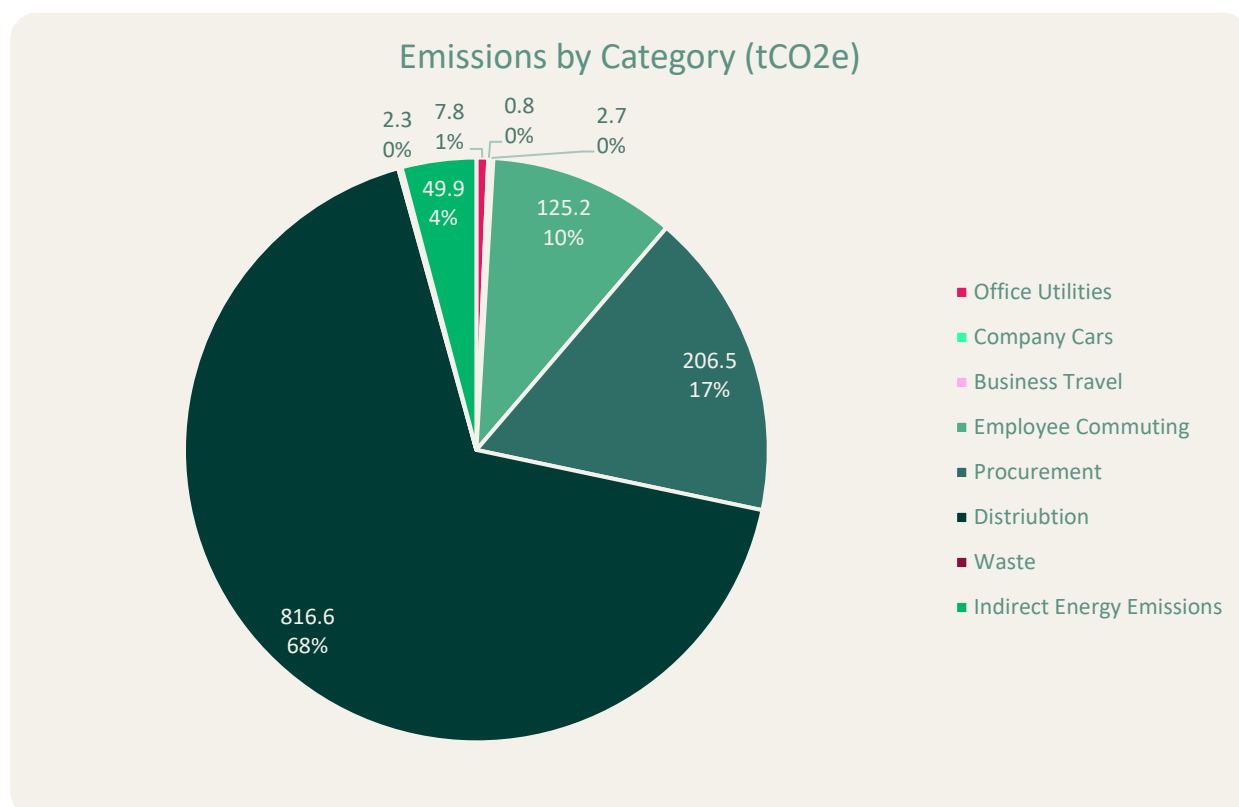
Baseline Year: 2024	
The current reporting year (January – December 2024) is also our base year. We have measured all scope 1, 2 and upstream scope 3 emissions.	
Emissions	Total (tonnes CO ₂ e)
Scope 1 <i>Includes mobile combustion and fugitive emissions from air con units. Zero stationary combustion or process emissions.</i>	1.0
Scope 2* <i>Includes electricity from property, and electric vehicles charged on-site are embedded in this figure.</i>	Market-based: 7.6 Location-based: 55.2
Scope 3 <i>Includes:</i> • Purchased Goods & Services • Capital Goods • Fuel & Energy Related Activities • Business Travel • Transportation & Distribution (Upstream & Downstream) • Employee Commuting & Homeworking • Operational Waste & Water • Upstream leased assets (zero)	1,203.3
Total Emissions*	Market-based: 1,212 Location-based: 1,259.6

*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: 2024	Carbon intensity metric
Employees (tCO ₂ e per FTE)	12.4
Revenue (tCO ₂ e per £m)	131.5

Carbon Emissions Breakdown



Category Overview	Emissions (kgCO ₂ e)
Scope 1	
Stationary Combustion	0.0
Mobile Combustion	781.9
Fugitive Emissions	239.4
Process Emissions	0.0
Scope 2	
Electricity (Location-based)	55,200.1
Electricity (Market-based)	7,598.2
Heat & Steam	0.0
Scope 3 (Upstream)	
Goods & Services	202,252.7
Capital Expenditure	4,277.2
Fuel- and Energy-Related Activities	49,947.3
Upstream Transportation and Distribution	816,645.4
Waste Generated in Operations	2,311.6
Business Travel	2,670.1
Commuting & Homeworking	125,231.9
Upstream Leased Assets	0.0

Completed Carbon Reduction Initiatives

The following emissions management measures and projects have been completed or implemented.

Activity	Completion Date	Scope
Committed to measuring the annual carbon footprint of business activities to gain an understanding of pinch points and take steps to reduce emissions. Appointed Positive Planet to support with calculating baseline carbon footprint and reduction recommendations.	2021	1,2,3
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.	2023	1,2,3
Switched to LED lighting throughout warehouses and offices.	2019	2
BREEAM Excellent warehouse facilities, including solar generation.	2009	1, 2
Encouraged hybrid and remote working where possible, reducing commuting emissions.	2020	3
Improved waste management processes and recycling rates. We have achieved significant reductions in packaging waste generated within operations. Since 2022 with paper and cardboard packaging waste reduced by 82% and plastic packaging waste reduced by 70%.	2024	3
Enhanced sustainability requirements within supplier selection.	2024	3
Ark-H has maintained ISO 14001 Environmental Management System certification since 2007, demonstrating a long-standing commitment to managing and improving environmental performance. Ark-H was among the early adopters of ISO 14001 within our sector, reflecting our long-term commitment to sustainable operations. Through our ISO 14001 management system, Ark-H identifies and evaluates environmental aspects associated with our 3PL operations, including: • Energy consumption across facilities • Waste generation and recycling • Resource use within operational processes	2007	1,2,3

Activity	Completion Date	Scope
Environmental considerations in procurement and supplier engagement		
Environmental responsibility is embedded within Ark-H’s culture. “Green” is one of our four core company values, alongside Keen, Lean and Care. Oversight of environmental performance is provided by Ark-H’s Quality and Compliance function, working with a cross-departmental Green Team responsible for coordinating environmental initiatives and monitoring performance.	2022	1,2,3
Ark-H’s environmental framework is supported by several specific policies, including: - Sustainable Procurement Policy - Waste Management Policy and procedures - Supplier Code of Business Conduct and Ethics - Packaging Purchasing Protocols - Supplier sustainability assessment processes	2024	1,2,3

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	% Reduction Target	Category
1	Encourage the facilities management at the office to procure a 100% renewable electricity tariff. This change will reduce market-based emissions (from chosen tariff) from the office (common areas) to 0 tCO ₂ e.	Completed in 2026	100% (market-based)	Purchased Electricity
2	Total location-based electricity emissions (National Grid energy mix) are still 55.2 tCO₂e so there is an opportunity to reduce energy use. We will implement behaviour change initiatives within the workplace for reduction of emissions, including clear messaging for turning off lights, monitors, computers, and other electrical appliances where appropriate. We will assign roles and responsibilities to Green Team members. High-level monitoring of energy use is key to understanding further pinch points.	2030	20% (location-based)	Purchased Electricity
3	Continue implementing energy efficiency measures to reduce the overall amount of electricity consumed at sites. Optimise operational procedures in line with our ISO 14001. Invite colleagues from different sites to openly explore challenges and barriers to collaboratively find solutions for reduction.	2030	10% (location-based)	Purchased Electricity
4	Move to fully electric fleet vehicles, removing LPG.	2027	100%	Mobile Combustion

Based upon the above completed and planned initiatives, it is projected that market-based Scope 1 & 2 carbon emissions will decrease to **8.6 tCO₂e 0.3 tCO₂e** by 2030. Our remaining emissions will be from air conditioning, and we will still aim to reduce our location-based electricity emissions too.

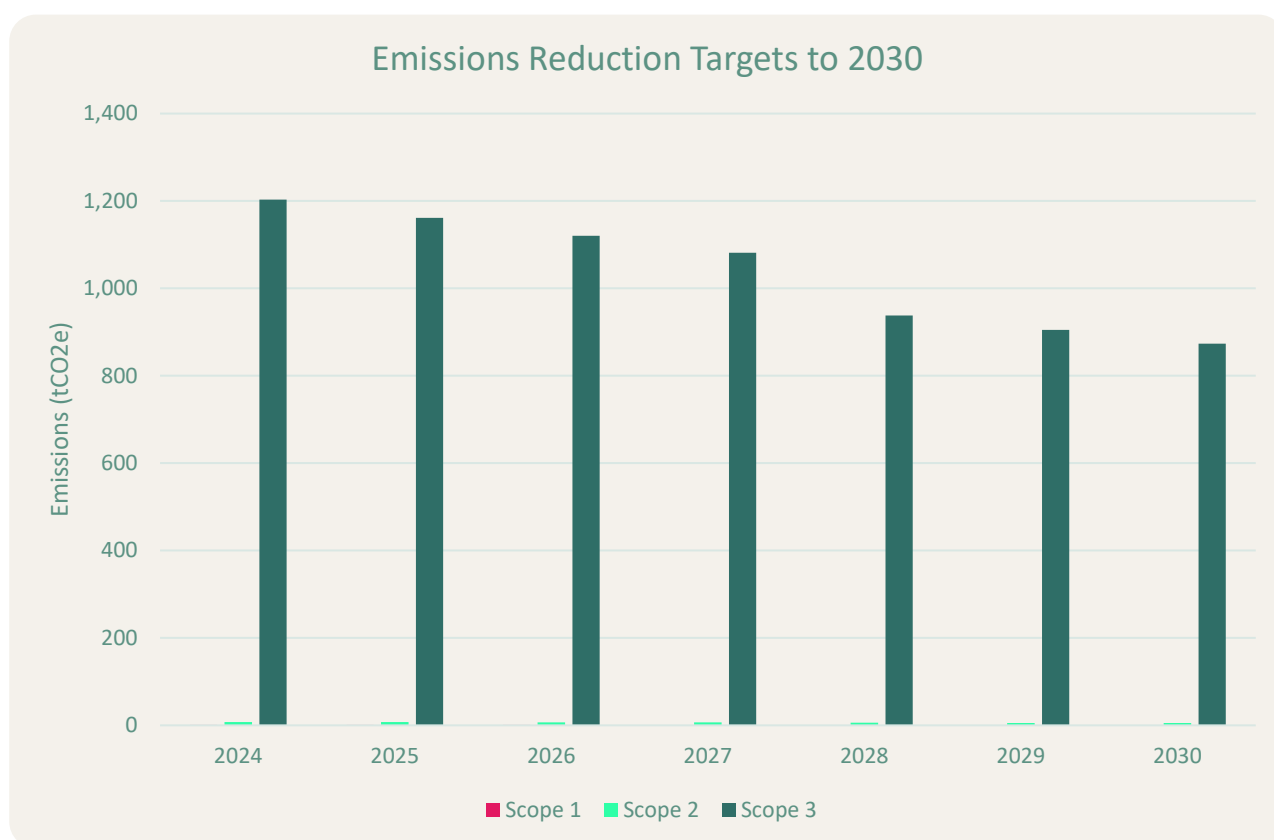
We also aim to implement the further initiatives below to reduce Scope 3 emissions:

Reduction Plans – Scope 3				
Activity No.	Activity	Target Date	% Reduction Target	Category
1	Focus on reducing our transport emissions. - Collaborate with key carriers to improve freight efficiency through consolidated loads, optimised route planning, and reduced empty running. - Prioritise modal shift opportunities where feasible, including greater utilisation of rail and sea freight for long-distance shipments. - Work with logistics partners to assess the availability of lower-carbon fuels (HVO, biofuels, LNG) and pilot alternative fuel solutions where operationally suitable. - Introduce performance-based engagement with freight partners, encouraging transparent reporting on fuel consumption, emissions intensity, and efficiency initiatives. - Implement internal shipment-planning controls to reduce over-specification of delivery speed (e.g., limiting air freight use except where business-critical). - Establish annual reviews of freight partner decarbonisation progress to ensure alignment with our Net Zero trajectory.	2027	10%	Upstream Transportation & Distribution
2	Launch a training/engagement programme for employees and leadership. Including and not limited to, creating spaces for positive environmental 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. On average, certified learners reduce their carbon footprints by 5-15%, of which ~50% are work-related.	2026-2030	2.5 - 7.5%	Commuting & Home Working Business Travel

3	Take action to further align with (and update) our Sustainable Procurement Policy, to reduce supply chain emissions. Steps may include: • Map our value chain emissions by supplier. • Communicate our Net Zero targets and expectations of our supply chain to our suppliers. • Start to survey/audit suppliers, gathering information on emissions, wider sustainability and Net Zero targets. • Prioritise lower-carbon suppliers. This may also involve purchasing second hand/ refurbished (furniture, IT equipment), using local suppliers (reducing delivery mileage), and extending the lifespan of purchased items. • Review our packaging practices and opt for sustainable alternatives.	2024 - 2028	20%	Purchased Goods & Services Capital Goods
4	We will implement a proportionate Sustainable Business Travel policy by 2027. This will include the following principles, aligned to operational needs: • Promote a travel hierarchy, encouraging the use of rail and public transport over road travel where practical and cost-effective. • For essential car travel, we will encourage the use of lower-emission vehicles, including EVs where available and suitable. • Periodically review mileage reimbursement practices to ensure they do not disincentivise lower-emission vehicle choices. • Monitor business travel activity annually to confirm that emissions remain low and to identify any trends that may require further action. • Consider the installation of EV charging points for staff and visitors.	2027-2030	15%	Business Travel Commuting
5	We are reviewing options to further encourage car sharing.	2026-2027	5%	Commuting

6	We will continue to improve waste segregation and recycling practices across all operational sites. We will engage with waste management suppliers to gain better data transparency and support landfill-diversion initiatives.	2026-2030	10%	Waste
7	We will strengthen data collection across all Scope 3 categories, especially freight, procurement, and energy-related indirect emissions, to support more accurate forecasting and reduction actions. We will also start to measure downstream emissions to gain a full picture of emissions impact and reduce end-of-life treatment of products.	2026-2030	-	All

Based upon the above completed and planned initiatives, it is projected that (as a minimum) Scope 3 carbon emissions will further decrease from the current normalised measurement of **1,203.3 tCO₂e** to **890.22 tCO₂e by 2030**. This is a **reduction of 26%** and will keep us on track to Net Zero.



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 Ark-H Handling Executive Team.

Signed on behalf of Ark-H Handling



Name: James Bell

Position: People, Quality & Compliance Director

Date: 16/10/2025

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>