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Carbon Reduction Plan

Supplier name: Wolf Laboratories Limited

Publication date: June 2023

Commitment to achieving Net Zero

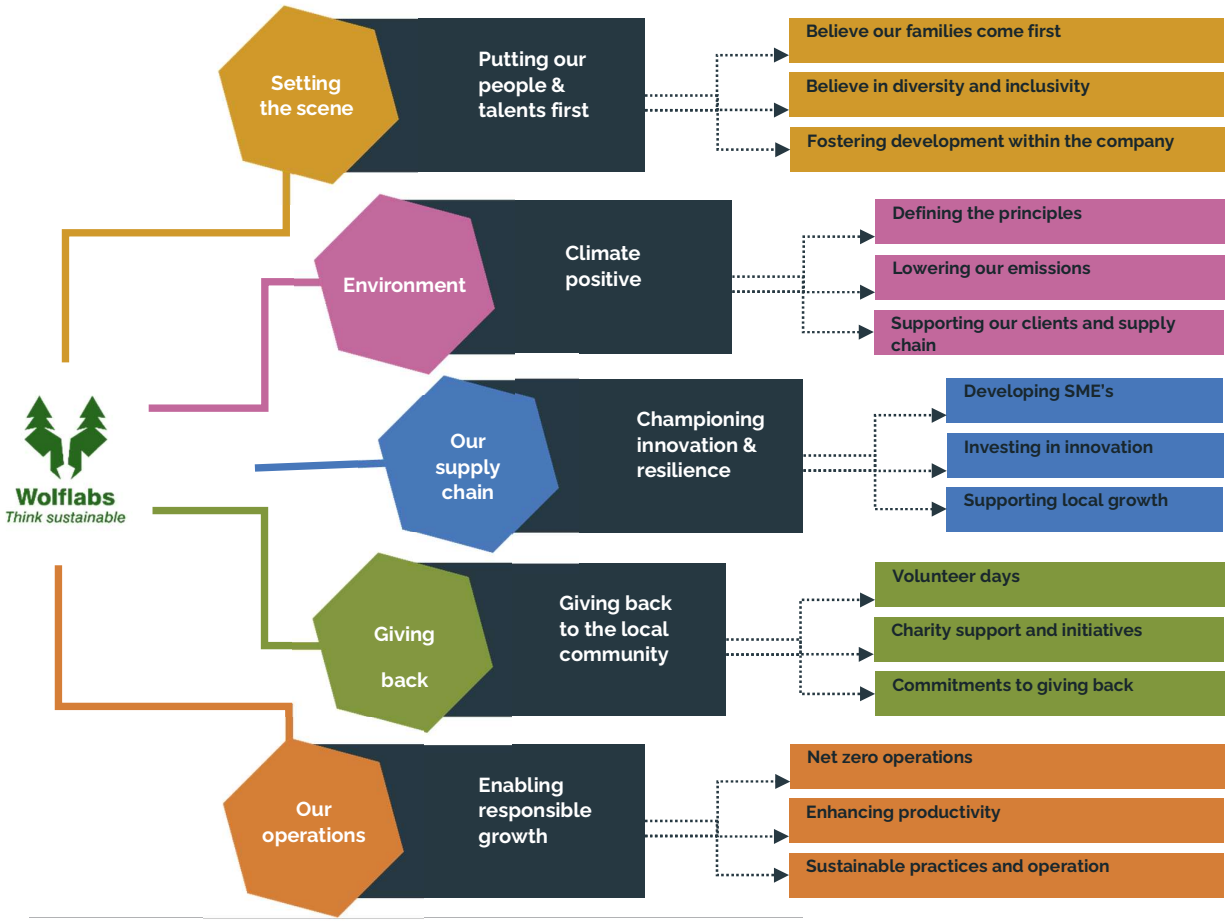
Wolflabs is committed to reducing its environmental impact and achieving Net Zero by 2040. As a major supplier in laboratory equipment, we recognise the importance of sustainability and are taking steps to reduce our environmental impact.

Our Operations Director's commitment:

"We are passionate about minimising climate change, with a commitment to becoming a Net Zero Carbon business by 2040, 10 years ahead of the Government's target of 2050 for many industries.

This means accelerating our focus to deliver on where we can make the biggest impact within our own business and collaborate to minimise carbon in the supply chain".

Our mission statement of 'Think Sustainable' is delivered through our Environmental, Social and Governance process (ESG) seen below.



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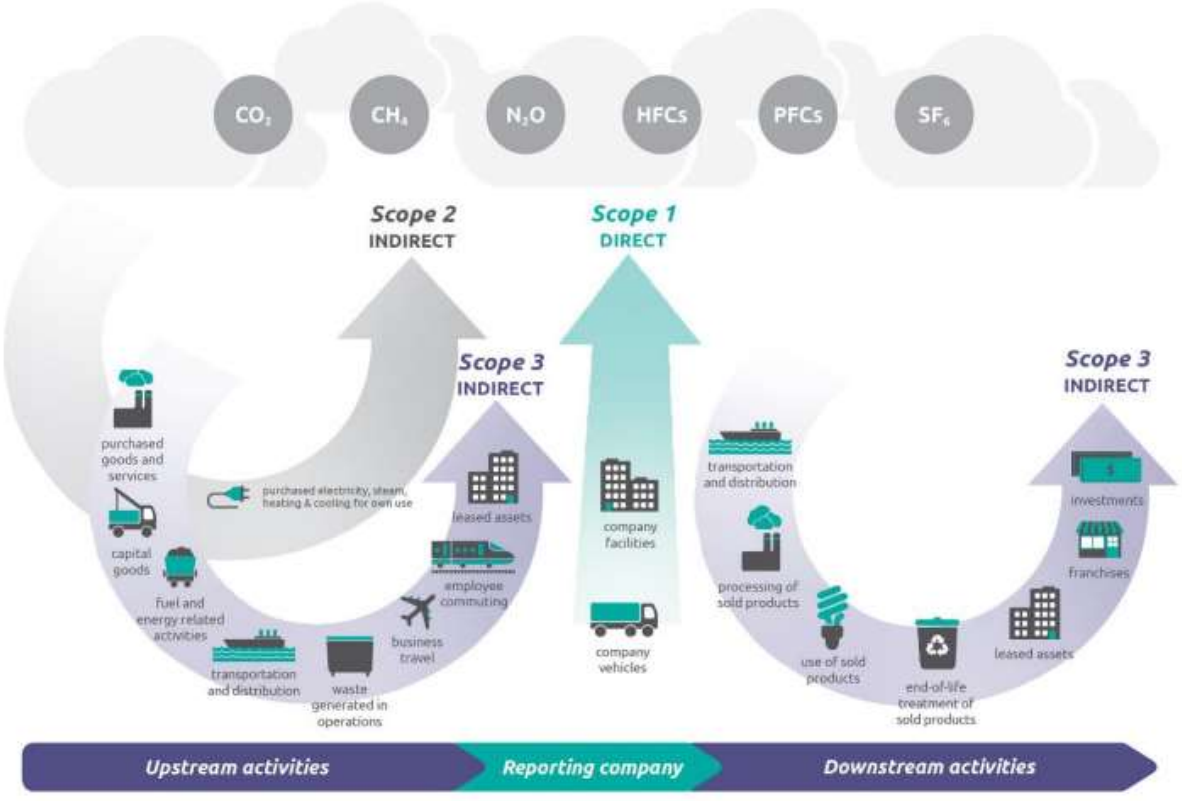
Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

To comprehensively assess and manage carbon emissions, it is essential to understand the different scopes of emissions defined by the Greenhouse Gas Protocol (GHG Protocol). These scopes provide a framework for categorising and reporting emissions:

- Scope 1: Direct emissions from sources that are owned or controlled by the organisation, such as on-site combustion of fossil fuels.
- Scope 2: Indirect emissions associated with the consumption of purchased electricity, heat, or steam.
- Scope 3: Indirect emissions from activities that are not owned or controlled by the organisation but occur because of its operations, such as business travel, supply chain, and waste disposal.

By categorising emissions in this way, organisations can identify the most significant sources of greenhouse gases within their operations and value chain, thereby enabling targeted and effective mitigation strategies. This comprehensive approach is crucial for any organisation committed to reducing its environmental impact and contributing to global sustainability efforts.



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Baseline Year: *2017*	
Additional details relating to the Baseline Emissions calculations. *The calculations for scope 1 and 2 were calculated using https://www.carbontrust.com/our-work-and-impact/guides-reports-and-tools/sme-carbon-footprint-calculator* *The calculations for scope 3 were completed on the Greenhouse Gas Protocol (GHG) Scope 3 Evaluator. We have used spend based data as a starting place for the scope 3.* *Our aim is for the CRP to be updated with average data before the end of December 2023, with a target of having hybrid data entered into the CRP within 1 year.* *The calculations are solely for Wolf Laboratories Limited.*	
EMISSIONS	**TOTAL (tCO_2e)**
Scope 1	3.9
Scope 2	9.8
Scope 3	Purchased Goods & Services - 6436 Upstream Fuel & Energy - 2.9 Upstream T&D - 326 Waste – 0.4 Business travel – 1.7 Employee commuting – 42 Downstream End of Life - 6.5 *all other categories not directly referenced are reported as 0 tCO2e
Total Emissions	6,829.2 *rounded

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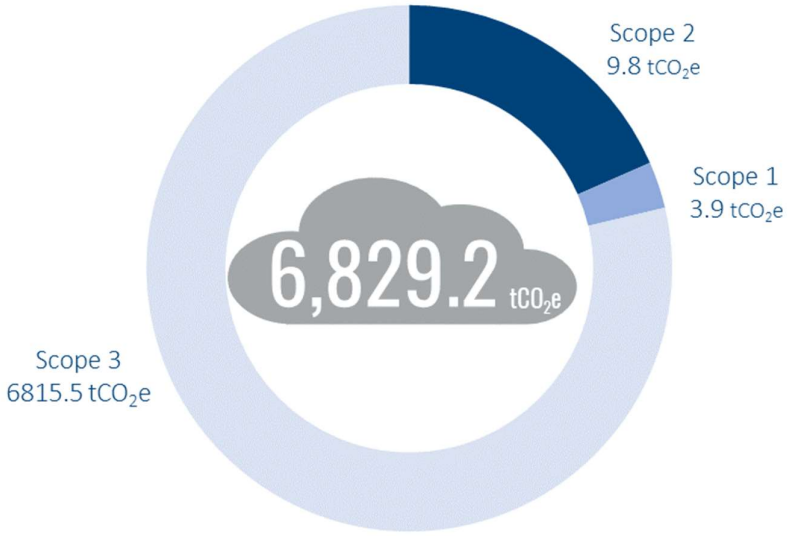

*Baseline year 2017 emission summary

***Current Year**: 2022*	
The calculations for scope 1 and 2 were calculated using https://www.carbontrust.com/our-work-and-impact/guides-reports-and-tools/sme-carbon-footprint-calculator *The calculations for scope 3 were completed on Greenhouse Gas Protocol (GHG) Scope 3 Evaluator. We have used spend based data as a starting place for the scope 3.* *The calculations are solely for Wolf Laboratories Limited.*	
EMISSIONS	TOTAL (tCO2e)
Scope 1	5.5
Scope 2	4.8
Scope 3	Purchased Goods & Services - 9831.9 Upstream Fuel & Energy - 2.3 Upstream T&D - 500 Waste – 0.5 Business travel – 1.5 Employee commuting – 42.5 Downstream End of Life - 10.8 *all other categories not directly referenced are reported as 0 tCO2e
Total Emissions	10,399.8 *rounded

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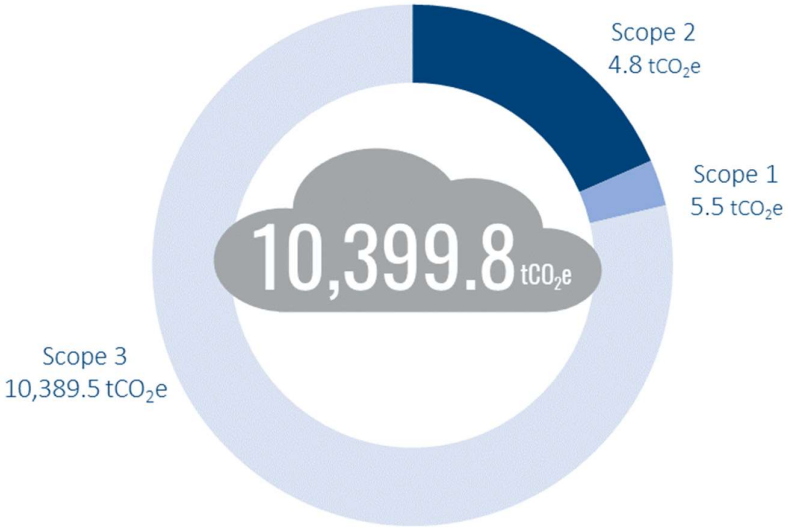

*Financial year 2022 emissions summary

Emissions Reduction Targets

Wolf Laboratories has not yet signed up to Science Based Targets and had validations of their roadmap to Net Zero however is in the process of internally validating the near term and long targets across scope 1,2 and 3.

The SBTi (Science Based Target Initiative) is a global body enabling businesses to set ambitious carbon emissions reductions targets in line with the latest climate science. We are committed to climate leadership therefore we have aligned our near and long term SBTs to a 1.5C reduction pathway, as a minimum.

For our Scope 3 near term SBT we have also adopted a climate leadership approach by reducing our emissions in line with a 1.5C reduction pathway to achieve a 50% reduction by 2030 (versus a 2017 baseline). Our scope 3 near term includes full value chain emissions – purchased goods and services, capital goods, fuel and energy related activities, upstream transportation and distribution, waste generated in operations, business travel, employee commuting, downstream transportation and distribution, use of sold goods and downstream leased assets.

We are currently setting our long-term Net Zero target. As a minimum we will achieve a 95% emissions reduction by 2040. Residual emissions (5%) will then be removed via high quality third party verified carbon removal programmes.

In order to continue our progress to achieving Net Zero we project that carbon emissions will;

- Reduce our Scope 1 and 2 emissions by 100% by 2030 against a calendar year 2017 baseline.
- Reduce our Scope 3 emissions by 50% by 2030 against a calendar year 2017 baseline.
- Achieve Net Zero Carbon by 2040 against a calendar year 2017 baseline.

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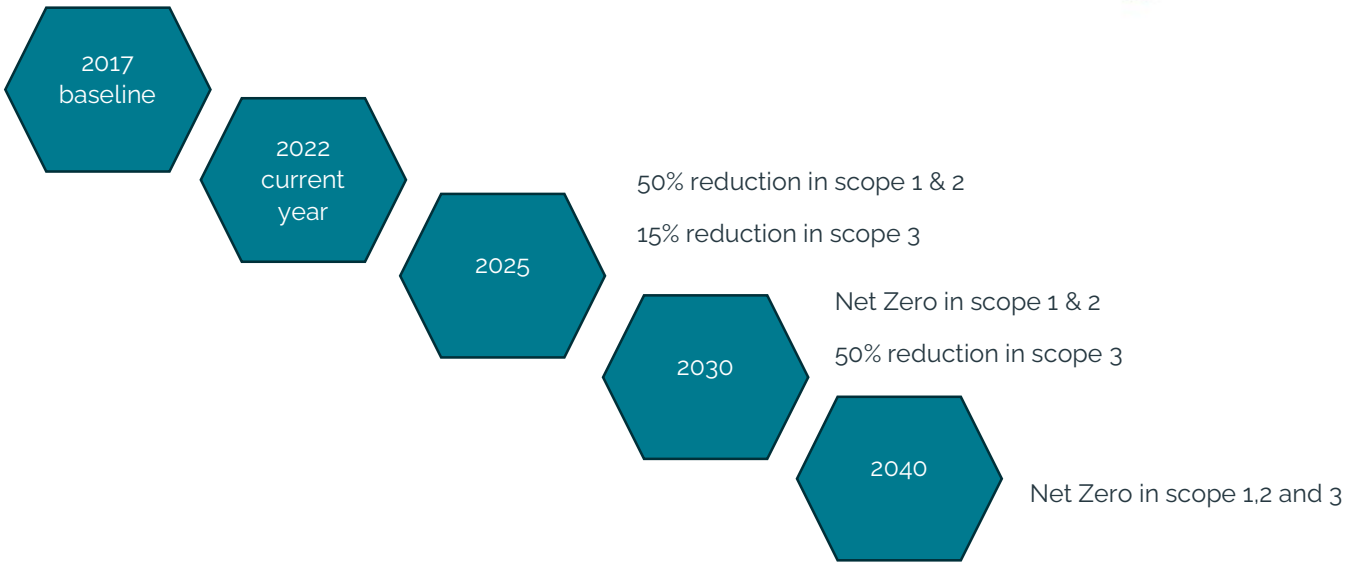

Carbon Reduction Projects

Complete Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2017 baseline.

Business as usual/current market trend	Wolf Laboratories best practise implemented
Hardcopies of point-of-sale material	Online catalogue and our staff business cards which were the only hard copy material have been digital since 2021.
In person sales meeting through business travel	No sales representatives on the road with call targets to meet. Staff are encouraged to use video meeting facilities where possible for internal and external meetings.
Transport types	Where travel is necessary hybrid cars were purchased.
Office working hours	We have just started offering all staff the opportunity of Hybrid working, to reduce the need for staff to commute to the office. We currently have 33% of our workforce regularly working from home and the scheme is available for all staff to utilise
Single use equipment	A repair and 'trade in' scheme for unwanted equipment was created, the link can be found on every product page on the website - https://www.wolflabs.co.uk/maintenance Sustainability eshots sent to customers with tips and information on how to elongate the life of their units, and how to use it in the most environmentally efficient way. Promoting repair before recycling. Within the last twelve months we have expanded the number of in-Group service engineers from 3 to 23.

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Limited local employment opportunities	84.8% of our employees live within a 25km radius of the office
Inefficient heating systems	Boiler has been replaced with more eco efficiency boilers and thermostat to allow more energy management.

By aligning our sustainability strategy with our business goals and the UK government's Net Zero target, we are committed to promoting sustainability throughout our operations and creating a more sustainable future for our customers, employees, and communities.

Planned Carbon Reduction Initiatives

Following the collection of scope 1, 2 and limited 3 emissions data, several key hotspots were identified. To combat these hotspots, the following initiatives can be undertaken.

Electric Vehicles

An expensive and perhaps unfeasible initiative would be for Wolf Laboratories to transition to Electric Vehicles; EVs produce zero tailpipe emissions and can significantly reduce carbon emissions associated with transportation. Hybrid vehicles combine electric and internal combustion engine technology, offering a more fuel-efficient and lower-emission alternative.

Transition to HVO Fuel in deliveries

A more achievable initiative would be replacing third party deliveries using diesel fuel with Hydrotreated Vegetable Oil (HVO). HVO is a renewable and sustainable diesel substitute made from vegetable oils, waste fats or other biological sources. It has similar properties to conventional diesel fuel but with significantly lower greenhouse gas emissions.

HVO fuel offers substantial carbon emission reductions compared to regular diesel. It can achieve up to 90% reduction in CO_2 emissions over its lifecycle. HVO can be used as a drop-in replacement for diesel without requiring any vehicle modifications or engine conversions.

HVO is derived from renewable feedstocks, such as vegetable oils or waste fats, making it a sustainable fuel choice. It helps reduce dependence on fossil fuels and supports the use of environmentally friendly resources.

This sustainable fuel also meets the quality standards and specifications required by diesel fuel regulations, ensuring compliance with existing fuel standards.

Delivery Route Optimisation

Implement efficient route planning and batch delivering and optimisation systems to minimise mileage and fuel consumption during deliveries to multiple customers. Optimising delivery routes can reduce the number of trips, distance travelled, and overall fuel consumption. This process will have significant benefits in terms of carbon emissions and operational costs.

Efficient Vehicle Maintenance

Asking our supply chain for regularly maintained delivery vehicles to ensure optimal performance and fuel efficiency. Properly inflated tires, regular engine tuning, and timely oil changes can improve fuel efficiency and reduce emissions.

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Employee Awareness and Training

Educate employees about the importance of reducing diesel usage and promoting sustainable practices. Encourage their participation in adopting fuel-efficient driving techniques and raising awareness of our sustainability goals. An effective example could be an anti-idling workshop with all delivery drivers.

Natural Gas

Energy Efficiency Upgrades

Conducting an energy audit to identify areas where energy efficiency improvements can be made would be a good first step to reducing natural gas usage.

Timers and Controls

Install timers and controls on equipment to automate processes and optimise energy usage. This allows for precise control over heating and ventilation systems, reducing natural gas consumption.

Energy Management Systems

Implement energy management systems to monitor and control energy usage in real-time. These systems provide data on energy consumption patterns, enabling us to identify areas for improvement and make informed decisions to reduce natural gas usage.

Renewable Energy Integration

Consider integrating renewable energy sources, such as solar thermal systems, iSolar thermal systems can provide hot water or preheating for ovens, reducing the need for natural gas-based heating.

Behavioural Changes

Educate employees about energy-saving practices and encourage behavioural changes. Promote turning off equipment when not in use, ensuring proper equipment maintenance, and adopting energy-conscious habits throughout our operations.

Carbon Literacy Programmes: Implement carbon literacy programmes to educate employees about the impact of carbon emissions and the role they can play in reducing them. This could include training on energy efficiency, waste reduction, and sustainable commuting options.

Supply Chain Engagement: Develop a supplier engagement program to encourage and ensure sustainable practices throughout your supply chain. This could involve working with suppliers to reduce the carbon footprint of the materials and services they provide.

Electricity from Grid

Improved Energy Efficiency

To reduce reliance on grid electricity, we can explore energy-saving measures such as using energy-efficient equipment, optimising production schedules to minimise peak electricity demand, adopting LED lighting, and considering expanding on-site renewable energy generation from solar panels whilst exploring additional sources.

Sustainable Energy Procurement

Sustainable procurement of electricity will aid us in achieving Net Zero. Purchasing Renewable Energy Guarantees of Origin (REGO's) from renewable energy generators, such as wind farms or solar power installations certifies that a specific amount of energy was produced from renewable sources.

In addition to purchasing REGOs, we will consider installing renewable energy systems on-site, such as increasing the number of solar panels. Generating renewable energy on-site not only reduces reliance on

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the grid but also provides an opportunity to further reduce carbon emissions and potentially generate excess energy to contribute back to the grid.

Other initiatives

Emission Reduction Strategy: Develop a comprehensive strategy for achieving your emission reduction target. This should include a range of measures tailored to your company's operations and emission hotspots. The strategy should be regularly reviewed and updated to ensure it remains effective.

Internal Audits: Conduct regular internal audits to assess the effectiveness of our carbon reduction strategies and identify areas for improvement. This could be aligned our current ISO 14001 standard for environmental management systems.

Appoint a person responsible for ensuring the relevant data is being collected for later analysis.

Rag Assessment of Carbon Reduction Initiatives

Opportunity	Rating of achievability (1-5)	Next Steps
Electric Vehicles	3	Enquire in the business hire of electric vehicles and location of surrounding charging points
Transition to HVO Fuel in deliveries	2	Advice on how our supply chain can reduce its scope 1 emissions however control over the choice of fuel Is limited
Delivery Route Optimisation	3	Currently we are actively progressing the bulk delivery of larger orders. Savings in emissions is yet to be quantified.
Efficient Vehicle Maintenance	3	Advice on how our supply chain can reduce its scope 1 emissions however this is out of our control.
Employee Awareness and Training	5	Currently the most achievable target is to look at existing training organisations such as IEMA and Supply Chain sustainability School to allow our employees to become upskilled in sustainability.
Natural Gas	4	Movement towards an efficient boiler system has been undertaken. Quantification of the savings made has not been detailed yet.
Electricity from Grid	5	REGO/renewable electricity is currently being looked into and should be available for FY24.

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.

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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 (where available) 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 board of directors (or equivalent management body).

Signed on behalf of the Supplier:

……  ……

Jenny Foss, Operations Director

Date: …… 27/07/2023 …….

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