



CARBON REDUCTION PLAN

BWYDYDD OREN FOODS

Publication date: February 2024

BACKGROUND

In 2019 In 2019 UK Government amended the Climate Change Act 2008 to commit the UK to achieve a target of at least a 100% reduction of greenhouse gas emissions (compared to 1990 levels) in the UK by 2050, referred to as 'Net Zero'. Extreme weather incidents and reporting of record temperatures has escalated sustainability to the top of the agenda and is fast becoming a significant business risk.

Bwydydd Oren Foods recognise our role in contributing to climate change and our responsibility to implement practices that minimise our environmental impact. As a result we have undertaken a review of all processes to establish a baseline for our Greenhouse gas (GHG) emissions and set a net zero target.

Commitment to achieving Net Zero

As a food distribution company we are very aware of the need to reduce our carbon footprint especially through our direct transport emissions, energy efficiency of our buildings and the source and supply of food. We have therefore agreed a goal to reduce our GHG emissions to net zero by 2040 with an aim to be carbon neutral by 2030. An annual gap analysis is being undertaken by Pathway to Carbon Zero Ltd. to assist us to achieve this goal and this has been used to establish the baseline from which to make carbon reduction achievements.

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.

Bwydydd Oren Foods has established a carbon footprint baseline using data for the period January to December 2023. This is detailed in the carbon footprint spreadsheet. Our targets and pathway have been set using the most recent climate science and methodology available via the Science-Based Target initiative.

When establishing baseline data we have chosen to focus on Scope 1 and Scope 2 emissions and some Scope 3 to include transportation and distribution of UK electricity, water supply, water distribution, paper use and packaging with the decision to exclude



certain Scope 3 emissions due to the difficulty in recording the data to any acceptable level of accuracy at this stage and the limited ability to directly influence a reduction in emissions.

We recognise the importance of calculating and reducing GHG emissions associated with Scope 3 activities and will start to compile data by engaging with stakeholders to consider the following:

- employee commuting
- waste
- purchased goods and services

These are not currently included within the scope of GHG emissions reporting due to limited data collection for reporting. However these have been considered in our carbon reduction action plan in order to report on this next year.

Data Analysis (from gap analysis)



Bwydydd Oren Foods LTD					
Scope 1					
	Measure	Annual total	Conversion Factor	kg CO ₂ e	Metric tonnes of CO ₂ e
Vehicles (all diesel)	litres	51943	2.512064	130484.1344	130.4841
Gas	m ³	1412	2.03437	2872.53044	2.87253
Refrigerant R449a	kg	0	1282	0	0
Scope 2					
	Measure	Annual total	Conversion Factor	kg CO ₂ e	Metric tonnes of CO ₂ e
Electricity	kWh	76740	0.207074	15890.88091	15.89088
Scope 3					
	Measure	Annual total	Conversion Factor	kg CO ₂ e	Metric tonnes of CO ₂ e
Transport & Distribution- UK electricity	kWh	76740	0.01792	1374.80565	1.374806
Water Supply	m ³	237.33	0.176685	41.93254344	0.041933
Water Treatment (disposed via drains)	m ³	225.46	0.201318292	45.38922205	0.045389
	Measure	Annual total	Conversion Factor	kg CO ₂ e	Metric tonnes of CO ₂ e
Paper (office)	Tonnes	0.81174	910.48	739.0714911	0.73907
Paper (packaging)	Tonnes	0.01581	910.48	14.39465873	0.014395
Card (packaging)	Tonnes	1.329774	801.52	1065.842804	1.065843
Plastic (packaging)	Tonnes	0.28818	3,102.45	894.0636103	0.894064
	Measure	Annual total	Conversion Factor	kg CO ₂ e	
General waste	Tonnes			0	
Recyclable waste	Tonnes			0	
Food waste	Tonnes			0	

Baseline year: 2023



Additional Details relating to the Baseline Emissions calculations.

Baseline emissions calculated for Scope 1 and 2 and also the following Scope 3 - Transport Distribution - UK electricity, Water Supply, Water Treatment (disposed via drains) paper use packaging.

Baseline Year emissions

EMISSIONS	TOTAL tCO ₂ e
Scope 1	133.35663
Scope 2	15.89088
Scope 3 (included categories) Transport & Distribution- UK electricity Water Supply Water Treatment (disposed via drains)	4.175498
Total Emissions	153.4230442 tonnes CO₂e

Emissions reduction targets

Oren have committed to reduce their Green House Gas (GHG) emissions to a net zero target. In order to achieve this robust actions are to be achieved. The following areas have been highlighted to be addressed over the next 12 months:

- Agree and approve baseline data for GHG emissions
- Set targets to reduce energy use by installing solar (PV) panels
- Purchase additional electric vehicles
- Install EV chargers to charge the electric fleet
- Use solar power to charge the vehicles to deliver a service to local customers that is carbon neutral
- Raise awareness with staff and other stakeholders on Orens’s environmental, net zero and sustainability ambitions
- Establish a Sustainability Green Team and allocate responsibilities to drive forward the improvement action plan as detailed in this report
- Communicate the Carbon Net Zero Pledge to staff and interested parties



- Implement a strategy for employee engagement
- Promote the Carbon Reduction and Sustainability Policy to staff and interested parties
- Ensure environmental compliance by ensuring correct segregation of waste
- Implement an EMS (Seren Scheme – BS 8555 Standard)

It is projected that we will reduce carbon emissions over the next 5 years to 130 tCO₂e. This is a reduction of 20%.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

We have already committed to reducing our environmental impacts through the implementation and maintenance of an Environmental Management System, which is UKAS accredited. We set ongoing improvement targets to manage and control our significant impacts. We have embarked on a journey towards net zero and have engaged the services of Pathway to Carbon Zero Ltd. to undertake a gap analysis on our current position with regards to carbon net zero and sustainability goals.

This provided a baseline for carbon footprint data. 2023 was the first year of accurately reporting on carbon emissions and has set the baseline for us to develop our net zero targets and long term sustainability goals.

We have developed policies and procedures to reduce carbon emissions, reduce waste and conserve resources and have ensured that the workforce has been trained and communicated with regarding our commitment to ongoing environmental improvements.

These improvements include energy efficient lighting, purchase of electric vehicles, reducing heating, reducing packaging, use of returnable packaging, reminding staff to switch lights and equipment off when not in use, staff engagement, better route planning.

In the future we hope to implement further measures such as:

- Use of more electric vehicles
- Improved cooling arrangements at the factory
- Installing solar panels
- Installing EV charging stations of the fleet
- Reduction in waste
- Further reduction in packaging with a focus on circular economy by introducing reusable packaging arrangements
- Capture supplier-level data to report our emissions accurately



- Work with our suppliers to source more sustainable materials, products and services
- Implement a Supplier Carbon Reduction Programme
- Use the circular economy when sourcing materials, products and services

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 standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

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) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by Gethin Dwyfor, Director.

Date: February 2024

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>