	Barsby Produce Carbon Reduction Plan	Document	Version	Issue Date
		POL064	1	23.07.26
	Last reviewed		Next Review	
	29.07.26		Jul-27	

Barsby Produce Carbon Reduction Plan

Time Period: 2025–2030

Commitment to Achieving Net Zero

Barsby Produce is committed to reducing its greenhouse gas emissions and continually improving its environmental performance. As part of this commitment, the company has set a target to reduce its carbon emissions by **50% by 2030**, using **2025 as the baseline year**.

This Carbon Reduction Plan outlines the measures already in place, the initiatives planned over the coming years, and the company's approach to monitoring and reporting progress.

Baseline Year

Baseline Year: 2025

Barsby Produce will use its 2025 carbon emissions as the baseline against which future reductions will be measured.

Carbon Reduction Target

- Baseline Year: 2025
- Target Year: 2030
- Reduction Target: **50% reduction in total carbon emissions**

Progress will be reviewed annually and reported internally.

Current Carbon Reduction Measures

Vehicle Fleet

Transport is one of the company's largest sources of greenhouse gas emissions.

In 2025 Barsby Produce operated:

- 16 refrigerated 3.5t and 5t diesel delivery vans

	Barsby Produce Carbon Reduction Plan	Document	Version	Issue Date
		POL064	1	23.07.26
		Last reviewed	Next Review	
		29.07.26	Jul-27	

- Predominantly Mercedes-Benz Sprinter and Iveco Daily vehicles
- Entire fleet less than five years old
- Latest Euro emission standard diesel engines

The business has already implemented several measures to reduce emissions:

- Dynamic route planning software is used to minimise mileage and improve delivery efficiency.
- Routes are continually reviewed and refined to reduce unnecessary journeys.
- The modern vehicle fleet benefits from improved fuel efficiency and significantly reduced emissions compared with older vehicles.
- Vehicles are maintained in accordance with manufacturer recommendations to ensure optimum fuel economy and emissions performance.

Planned Improvements (2025–2030)

Barsby Produce will continue to:

- Improve route optimisation using enhanced planning software.
- Dynamic route planning software
- Reduce total vehicle miles travelled where operationally possible.
- Monitor fuel consumption across the fleet.
- Purchase new fuel-efficient and consider electric vehicle options. Evaluate low-carbon vehicle technologies as commercial refrigerated alternatives become practical.

Renewable Energy

The company has made significant investment in renewable electricity generation.

Current measures include:

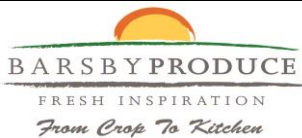
- Installation of a **90 kW solar photovoltaic (PV) array** supplying renewable electricity to the depot.
- Maximising on-site consumption of renewable electricity during daylight hours.

Planned Improvements

By September 2026 the company intends to install approximately **430 kWh of battery storage**, providing sufficient capacity to power depot operations for more than one day.

This investment will:

- maximise use of solar-generated electricity
- reduce electricity imported from the grid

	Barsby Produce Carbon Reduction Plan	Document	Version	Issue Date
		POL064	1	23.07.26
		Last reviewed		Next Review
		29.07.26		Jul-27

- improve energy resilience
- reduce Scope 2 carbon emissions.

Energy Efficiency

Barsby Produce continually invests in reducing energy consumption across its operations.

Current measures include:

- Occupancy sensor-controlled lighting throughout operational areas.
- Energy-efficient LED lighting.
- Regular servicing and preventative maintenance of refrigeration equipment.
- Efficient evaporator and condenser operation.
- Use of lower Global Warming Potential (GWP) refrigerant **R454A**, reducing environmental impact compared with older refrigerants.

The company will continue monitoring electricity consumption and identify further opportunities for energy efficiency improvements.

Water Conservation

Barsby Produce recognises the importance of reducing mains water consumption.

The company is installing a **2,000-litre rainwater harvesting system** to capture roof runoff.

Stored rainwater will be used for vehicle washing and cleaning operations, reducing reliance on treated mains water while making productive use of natural rainfall.

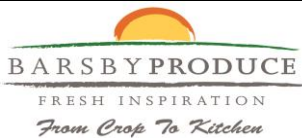
Waste Management

The company operates a comprehensive waste segregation programme.

Waste streams are monitored to maximise recycling and minimise landfill disposal.

Current performance includes:

- All food waste is segregated and sent for composting.
- Food waste represented only **0.5% of all food handled during 2025.**

	Barsby Produce Carbon Reduction Plan	Document	Version	Issue Date
		POL064	1	23.07.26
		Last reviewed		Next Review
		29.07.26		Jul-27

- Food waste is transported to a local composting facility located approximately four miles from the depot.
- All cardboard is baled for recycling.
- All paper is recycled.
- All plastic is recycled.
- No metal, chemical or garden waste is generated.
- General waste generated during 2025 totalled **8 tonnes**.

The company will continue working with employees and suppliers to further reduce waste generation and increase recycling rates.

Sustainable Procurement

Barsby Produce recognises that emissions occur throughout the supply chain.

The company therefore prioritises:

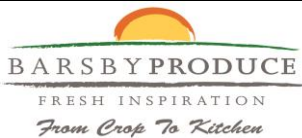
- sourcing produce from local growers wherever practical
- reducing food miles by favouring UK-grown produce
- minimising imported produce where suitable local alternatives exist
- working collaboratively with growers to reduce carbon emissions throughout the supply chain.

Supplier engagement will continue to form an important part of the company's sustainability strategy.

Future Carbon Reduction Initiatives

Between 2025 and 2030 Barsby Produce intends to deliver the following initiatives:

Initiative	Expected Benefit
Further optimisation of delivery routes	Reduced diesel consumption
Battery energy storage installation	Increased use of renewable electricity
Continued fleet renewal	Improved fuel efficiency
Ongoing refrigeration optimisation	Reduced electricity demand
Rainwater harvesting	Reduced mains water consumption
Continued waste reduction	Lower disposal emissions
Greater collaboration with suppliers	Reduced Scope 3 emissions

	Barsby Produce Carbon Reduction Plan		Document	Version	Issue Date
			POL064	1	23.07.26
			Last reviewed		Next Review
			29.07.26		Jul-27

Monitoring and Reporting

Barsby Produce will:

- review energy consumption annually
- monitor vehicle fuel use and mileage
- monitor waste generation and recycling performance
- review food waste annually
- monitor renewable electricity generation
- assess progress towards the 50% reduction target each year.

Where practical, emissions will be calculated using the latest UK Government greenhouse gas conversion factors.

Declaration

This Carbon Reduction Plan has been prepared to demonstrate Barsby Produce's commitment to reducing its environmental impact and achieving a **50% reduction in carbon emissions by 2030** against its 2025 baseline.

The company recognises that continual improvement, investment in energy efficiency, responsible procurement and engagement with employees and suppliers will all contribute towards achieving this target.

Barsby Produce is committed to reviewing this plan annually to ensure it remains effective and aligned with business operations and environmental best practice.