



Cabinet Office

## CARBON REDUCTION PLAN GUIDANCE

# Carbon Reduction Plan Template

Supplier name: P.F.D (Carlisle) Ltd

Publication date: February 2024.

### Commitment to achieving Net Zero

P.F.D. (Carlisle) Ltd is committed to achieving Net Zero emissions by 2045.

### 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.

**Baseline Year: 2022/23**

#### Additional Details relating to the Baseline Emissions calculations.

This is the first reported CO<sub>2</sub>e baseline year.

As a result of large company growth following the demise of Covid-19 restrictions, the 2022/23 carbon footprint is considered the most suitable for the base line year. P.F.D (Carlisle) Ltd grew sharply after the Covid restrictions were lifted and continue to do so. Using an earlier year for benchmarking would not be appropriate. The data presented is reflected in our SECR & ESOS III assessments so future reporting against these Regulations and PPN 06/21 will be aligned.

**Baseline year emissions: 2022/23**

EMISSIONS	TOTAL (tCO <sub>2</sub> e)
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Scope 1	1,934.6 tCO <sub>2</sub> e
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Scope 2	833.4 tCO <sub>2</sub> e
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**Scope 3**

(Included Sources)

**TOTAL 5,092.29 tonnes CO<sub>2</sub>e.****Category 4: Upstream Transportation & distribution****4,854.98 tonnes CO<sub>2</sub>e.**

Limited to deliveries from Tier 1 suppliers only, with whom we have some ability to influence or assist in reducing their transport emissions. Deliveries from Tier 2 suppliers do exist but we have limited opportunities to influence their emissions, and many are too small to make major financial investments re. green transport options.

Data for the weights and distances for each delivery journey are not available, so a Gross Economic Value Added (GEVA) metric is used, using the UK GEVA factors for 2020. Where a supplier delivers multiple food groups, the average GEVA for all the food groups concerned is used. All GEVA factors are kg CO<sub>2</sub>e per £1 spend.

**Clarebout:** Potatoes, GEVA = 0.050 \* £699,000 = 34.95 tCO<sub>2</sub>e

**Central Foods:** Frozen ambient foods, average GEVA 0.489  
0.489 \* £620,000 = 303.2 tCO<sub>2</sub>e

**Kara:** Bakery, GEVA = 0.144 \* £562,000 = 80.93 tCO<sub>2</sub>e

**Unilever:** Ambient foods, GEVA = 0.489  
0.489 \* £690,000 = 337.4 tCO<sub>2</sub>e

**Caterers Choice:** Fish, tomatoes, beans & Pulses, veggie, fruit  
Average GEVA is 0.067  
0.067 \* £641,000 = 42.9 tCO<sub>2</sub>e

**Premier Foods:** Ambient foods, GEVA = 0.489  
0.489 \* £535,000 = 261.6 tCO<sub>2</sub>e

**Jewitts Meats:** GEVA = 1.618 \* £1,200,000 = 1,941.6 tCO<sub>2</sub>e

**Bacon factory:** GEVA = 1.618 \* £575,000 = 930.4 tCO<sub>2</sub>e

**Brown Brothers:** Cooked and sliced meats, GEVA = 1.618  
1.618 \* £570,000 = 922 tCO<sub>2</sub>e.

**Category 5: Waste from operations.**

**51.44 tonnes CO<sub>2</sub>e.**

April 2022 to March 2023

78.867 tonnes of butcher waste

@ 0.5kg CO<sub>2</sub>e per kg 39.93 tonnes CO<sub>2</sub>e

Mixed card & paper

224.9 tonnes @ 21.28 kg CO<sub>2</sub>e per tonne = 4.786 tonnes

Glass

8.69 tonnes @ 21.28 kg CO<sub>2</sub>e = 0.185 tonnes

Mixed waste

307.21 tonnes @ 21.28 kg CO<sub>2</sub>e = 6.537 tonnes

Total waste emissions = 51.438 tonnes CO<sub>2</sub>e

**Category 6: Business Travel.**

Included in Scope 1 calculations.

**Category 7: Employee Commuting.**

**185.87 tonnes CO<sub>2</sub>e.**

Bike 28,560 miles per year zero emissions

Bus 10,320 miles per year  
@ 0.162kg CO<sub>2</sub>e per mile 1.672 tonnes CO<sub>2</sub>e

Car / Lift 674,304 miles  
@ 0.273316 kg CO<sub>2</sub>e per mile 184.2 tonnes CO<sub>2</sub>e

	<p>Scooter 768 miles zero emissions</p> <p>Walking 33,168 miles zero emissions</p> <p><b>TOTAL 185.87 tonnes CO<sub>2</sub>e</b></p> <p><b><u>Category 9: Downstream Transportation &amp; Distribution.</u></b></p> <p>Not applicable</p>
<b>Total Emissions</b>	<b>7,860 tonnes CO<sub>2</sub>e.</b>

## Current Emissions Reporting

<b>Reporting Year: 2024/25</b>			
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>		
	<b>8,376.78</b>		
<b>Scope 1</b>	Gas	323.02 tCO <sub>2</sub> e	-7.6%
	Diesel	1,950.9 tCO <sub>2</sub> e	+23.1%
<b>Scope 2</b>	Electricity	812.09 tCO <sub>2</sub> e	-2.6%
<b>Scope 3 (Included Sources)</b>	<b>TOTAL SCOPE 3 EMISSIONS:</b>		
	5,290.8 tCO <sub>2</sub> e		+3.9%
	<b>Category 4: Upstream Transportation &amp; Distribution</b>		
	<u>Clareabout:</u>		
	Potatoes, GEVA 0.050 kg CO <sub>2</sub> e per £		
	£865,000 * 0.050 = 43.250 tCO <sub>2</sub> e (+23.7%)		

Central Foods:

Frozen & ambient foods, GEVA 0.475 kg CO<sub>2</sub>e per £  
£660,000 \* 0.475 = 313.5 tCO<sub>2</sub>e (+3.4%)

Kara:

Bakery, GEVA 0.495 kg CO<sub>2</sub>e per £  
£557,000 \* 0.495 = 275.715 tCO<sub>2</sub>e (+340%)

Unilever:

Ambient foods, GEVA 0.475 kg CO<sub>2</sub>e per £  
£699,000 \* 0.475 = 332.03 tCO<sub>2</sub>e (-1.6%)

Caterers Choice: Fish, vegetables, GEVA 0.050 kg CO<sub>2</sub>e per £  
£790,000 \* 0.050 = 39.5 tCO<sub>2</sub>e (-7.9%)

Premier Foods: Ambient foods, GEVA 0.475 kg CO<sub>2</sub>e per £  
£579,000 \* 0.475 = 275.03 tCO<sub>2</sub>e (+5.1%)

Jewitts meats Ltd: Meats, GEVA 1.618 kg CO<sub>2</sub>e per £  
£1,308,937 \* 1.618 = 2,117.9 tCO<sub>2</sub>e (+9.1%)

The Bacon Factory Ltd: Meats, GEVA 1.618 kg CO<sub>2</sub>e per £  
£694,930 \* 1.618 = 1,124.4 tCO<sub>2</sub>e (+20.9%)

Brown Brothers Ltd: Meats, GEVA 1.618 kg CO<sub>2</sub>e per £  
£344,985 \* 1.618 = 558.19 tCO<sub>2</sub>e (-39.5%)

**Total 5,079.52 tCO<sub>2</sub>e**

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**Category 5: Waste from operations**

Butchers waste / organic waste, Anaerobic digestion.

113.033 tonnes @ 8.88386 kg CO<sub>2</sub>e per tonne = 1.00 tCO<sub>2</sub>e

Energy from Waste, mixed municipal

262.747 tonnes @ 6.41061 kg CO<sub>2</sub>e per tonne = 1.684 tCO<sub>2</sub>e.

Recycled

Mixed, 9.334 tonnes @ 6.41061 kg CO<sub>2</sub>e per tonne = 0.06 tCO<sub>2</sub>e

Plastic, 2.860 tonnes @ 6.41061 kg CO<sub>2</sub>e per tonne = 0.018 tCO<sub>2</sub>e

**TOTAL = 2.762 tCO<sub>2</sub>e**

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**Category 6, Business Travel**

Included in Scope 1 calculations.

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**Category 7: Employee Commuting**

**Bike:** 99.5 miles each way, \* 2 \* 5 days \* 48 weeks = 47,760 miles

Zero GHGF emissions

**Bus:** 3.7 miles each way, \* 2 \* 5 days \* 48 weeks = 1,776 miles per year

@ 0.209 kg CO<sub>2</sub>e per passenger mile = 0.371 tCO<sub>2</sub>e.

**Car or Lift:** 1,576.5 miles each way \* 2 \* 5 days \* 47 weeks = 756,720 miles

@ 0.273316 kg CO<sub>2</sub>e per mile = 206.82 tCO<sub>2</sub>e.

**Scooter:** 14.8 miles each way \* 2 \* 5 days \* 48 weeks = 7,104 miles

@ 0.18293 kg CO<sub>2</sub>e per mile = 1.30 tCO<sub>2</sub>e

**Walking:** 72.3 miles each way \* 2 \* 5 days \* 48 weeks = 34,704 miles per year

No GHG emissions.

**TOTAL = 208.49 tCO<sub>2</sub>e**

<b>Total Emissions, Scopes 1, 2 &amp; 3</b>	<b>8,376.78 tCO<sub>2</sub>e</b>
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## Emissions reduction targets

### Scope 1:

Only gas and diesel contribute to our Scope 1 emissions. In our baseline year, they accounted for 83% and 18% respectively, based on 6,691,574 kWh of diesel and 1,908,705 kWh of gas.

In 2024/25, diesel emissions had risen to 85.7% of Scope 1 emissions. Our diesel consumption rose by almost 22% to 8,162,327 kWh. Gas consumption fell by 7.5% to 1,766,106 kWh

This reflects the increased business turnover, rising from c.£50m in our baseline year to c.£70m in 2024/25.

### Scope 2:

Electricity consumption is dominated by demand from the 2# cold storage units at Gateshead and Carlisle and does not change significantly.

Therefore, our emission reduction targets will focus on reducing emissions from diesel consumption and increasing our capacity to generate solar PV electricity across the portfolio.

Progress against each source of emissions will be measured using our economic metric of tCO<sub>2</sub>e per £1M of turnover. Against this metric we are making good progress.

Our Scope 1 & 2 carbon intensity has fallen from 55.36 tCO<sub>2</sub>e per £1M t/o in our baseline year to 44.09 tCO<sub>2</sub>e per £1M in 2024/25,

### Scope 3:

Our baseline Scope 3 emissions were 5,092.2 tCO<sub>2</sub>e. These have risen to 5,290.8 tCO<sub>2</sub>e in 2024/25.

*Scope 3, Category 4, Upstream Transportation* and distribution, rose by 4.6% from 4,854.98 tCO<sub>2</sub>e to 5,079.52 tCO<sub>2</sub>e. This is calculated on GEVA, calculated on total expenditure of £6,498,852, an increase of 16.5% against the £5,579,000 in the baseline year.

*Scope 3, Category 5, Operational Waste*, fell from 51.44 tCO<sub>2</sub>e in the baseline year to 1.762 tCO<sub>2</sub>e in 2024/25.

*Scope 3, category 7, Employee commuting*, rose from 185.87 tCO<sub>2</sub>e in the baseline year to 208.49 tCO<sub>2</sub>e in 2024/25, principally because of increased car journeys.

Although the largest source of Scope 3 emissions is Category 4, we have not set a target for reduction in emissions. Because the calculation is based on national GEVA conversion factors, we have no opportunity to influence these.

The Category 4 emissions calculation could be refined by tracking actual mileage for the deliveries, but this is resource intensive. Nevertheless, we will consider this as a future approach.

## Carbon Reduction Projects

### Intended Carbon Reduction Initiatives

Our ESOS Phase III assessment identified 10# energy and carbon reduction opportunities, 5 of which had a financial / energy / carbon reduction potential. Brief details of each opportunity are given below.

Driver Eco-training	CO <sub>2</sub> e reduction potential	153.4 tonnes.
	<i>Currently being considered for implementation</i>	
Improve truck fuel efficiency	ditto	8.652 tonnes.
	<i>Not reviewed in the last 12 months.</i>	
Food Hall, freezer temps	ditto	0.731 tonnes.
	<i>Will not be implemented in the short term.</i>	
Food Hall, open freezer temps	ditto	1.827 tonnes.
	<i>Will not be implemented in the short term.</i>	
Food Hall, out of hours setback	ditto	5.942 tonnes.
	<i>Will not be implemented in the short term.</i>	

Our delivery fleet is entirely diesel, generally 19-tonne refrigerated DAF and Mercedes Benz vehicles. We continue to investigate the potential for gradually replacing these with 100% EV trucks. This will require a substantial financial investment and a large-scale infrastructure development, so must be considered a medium-term investment.

The redevelopment of the main production and cold storage facility at Rosehill, Carlisle is almost complete and will include a 94.46 kWp solar PV array. This will be capable of generating c.80,290 kWh per year, all of which will be used on site. This will eliminate and estimated 16.75 tonnes of CO<sub>2</sub>e per year.

## **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.

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.

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:**

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Date: .....