



## **WASTE MINIMISATION REPORT FOR POETON (CARDIFF) LTD – 2024**

### **1. Overview of Waste Management**

The number of employees at Poeton (Cardiff) Ltd has continued to rise in 2024, reflecting the growth in work orders that was anticipated in 2023. This increase aligns with the company’s expanding operations, which also results in greater waste production.

Below is a summary of the increase in workforce over recent years:

<b>Year</b>	<b>Employees</b>
2020	65
2021	67
2022	72
2023	74
2024	82

### **2. Waste Sent to Landfill and Recycling**

In 2024, Poeton sent 3.42 tonnes of waste to landfill, marking a slight increase from the previous year. However, the total amount of waste generated has decreased compared to 2023. A large proportion of the waste remains recyclable. Poeton continues to encourage clients to use bespoke reusable packaging, and more companies are adopting this sustainable practice. In addition, Poeton is exploring solutions to reduce waste from masking materials such as tapes, paper, and plastic, which are used to shield non-treatment areas. One potential solution under consideration is the use of reusable hard masking materials.

Below is a breakdown of landfill and recycling data:

<b>Year</b>	<b>Landfill (tonnes)</b>	<b>Recycling (Tonnes)</b>
2020	1.7	17.4
2021	2.5	11.5
2022	0	10.3
2023	2.23	20.49
2024	3.42	14.49

Despite a slight increase in the landfill amount in 2024, the proportion of waste diverted for recycling has decreased marginally. This change can be attributed to the new waste regulations in Wales, which stipulate that if recycling is contaminated by waste from another stream, it must be classified as general waste, even if the contaminant is recyclable.

### 3. Recycling Rate

The percentage of waste recycled in 2024 stood at 81%. Although this marks a decrease from previous years, it is important to note that the overall reduction in total waste generated, coupled with increased landfill disposal due to contamination, has influenced this figure.

Year	% of Waste Recycled
2020	91%
2021	82%
2022	100%
2023	96%
2024	81%

### 4. Waste per Employee

The waste generated per employee has fluctuated due to varying factors, including increased production levels and workforce growth. The figures below provide insight into the waste generated per employee for both landfill and recycling in 2024 compared to previous years:

Year	Total Waste per Employee (kg)	Landfill per Employee (kg)	Recycling per Employee (kg)
2020	294	26	268
2021	209	37	172
2022	143	0	143
2023	307	30	277
2024	218	41.7	176.7

### 5. CO2 Emissions

In 2024, Poeton experienced a slight increase in total CO2 emissions, which can be attributed to the higher levels of production. Despite this, the CO2 emissions per employee have decreased, reflecting improvements in energy efficiency. The company continues to focus on reducing its carbon footprint, with ongoing initiatives such as the installation of inverters on fan motors (planned for completion this year) and further exploration into solar energy generation, which remains a long-term goal.

Year	Total CO2 Emissions (tonnes)	CO2 per Employee (tonnes)
2020	526.3	8.1
2021	537.7	8.0
2022	559.8	7.8
2023	572.4	7.7
2024	597.0	7.3

## 6. Water Usage

Poeton has made significant strides in reducing water usage in 2024, continuing to use flow-check valves and level probes, and ensuring minimal water loss during tank maintenance. The implementation of croffles across more tanks has also played a critical role in reducing evaporation and overall water consumption. Additionally, plans to introduce conductivity-controlled water valves for rinses in 2025 will ensure that water is used more efficiently, only flowing when necessary and shutting off once it meets cleanliness standards.

Year	Water Usage (m <sup>3</sup> )	Water per Employee (m <sup>3</sup> )
2020	33637	517.4
2021	31676	472.7
2022	27081	376.1
2023	29007	391.9
2024	28208	344.0

## 7. Conclusion

Overall, Poeton (Cardiff) Ltd has made notable progress in waste minimisation, including a reduction in total waste generated and an increased focus on recycling. However, the rise in landfill waste is a direct result of stricter regulations and the challenge of contamination in recycling streams. CO2 emissions have risen slightly due to increased production, though per employee emissions have decreased, aligning with the company's ongoing commitment to energy efficiency.

Poeton remains dedicated to improving its environmental performance, guided by both legal obligations and a strong commitment to sustainability. The company's leadership continues to drive initiatives aimed at reducing environmental impact across all operational areas, striving to balance business growth with responsible environmental stewardship.

██████████,  
HSE & Facilities Manager  
Poeton (Cardiff) Ltd  
25/03/2025