

WASTE MINIMISATION REPORT FOR POETON (CARDIFF) LTD 2023

Consigned waste and recycling

The number of employees has increased in 2023 due to an uplift in work orders from Q4 2022, which has exceeded 2019 (pre-Covid) levels. We expect this to continue into 2024 and staff levels will increase accordingly.

Year	Employees
2019	135
2020	65
2021	67
2022	72
2023	74

The amount of waste sent to landfill in 2023 is 2.23 tonnes. The total amount of waste generated has increased in the last year, but most of the waste was recyclable. We continue to encourage our clients to use reusable bespoke packaging, as this will cut down on waste generated by both parties. More and more companies are adopting this method. This also makes good business sense as this reusable packaging is custom made for the parts they contain, holding the parts firmly in place causing less damage to parts in transit, which results in reducing the need for re-work, which in turn saves valuable resources (transport back and forth for rework, energy, manpower, chemicals etc.). However, as parts come in covered with temporary protective oils, packing directly in contact with the parts needs to be replaced with clean oil free packaging when completed. We encourage our customers to use packaging that can be recycled, and we use recyclable packaging on returned parts.

Year	Landfill (tonnes)	Recycling (Tonnes)
2019	2.3	20.9
2020	1.7	17.4
2021	2.5	11.5
2022	0	10.3
2023	2.23	20.49

The percentage of recycling: landfill has decreased in 2023 as some of the waste collected by Biffa was sent to landfill. In 2022 Biffa reported that all our waste was either recycled or landfill diverted for use in energy production.

Year	% of Waste Recycled
2019	90%
2020	91%
2021	82%
2022	100%
2023	96%

Year	Combined/ employee (kg)	Landfill/employee	Recycling / employee
2019	154	17	154
2020	294	26	268
2021	209	37	172
2022	143	0	143
2023	307	30	277

CO₂ Produced

There was another small increase in the total amount of CO₂ produced in 2023, but this is still considerably down on 2019 figures. Also, the CO₂ per employee has slightly decreased. Production exceeded 2019 (pre-covid) levels. We have made further improvements on energy efficiency with the use of croffles as stated on water use. The company leadership is aware of their moral and legal duty to decrease the amount of CO₂ produced and a project was started at our head office (PGL) in 2022 to find ways this can be achieved and act on them. Inverters are to be installed on fan motors to slow them down by a few % whilst still achieving required flow level. Sadly investigations into solar generation found that the roof loading of the building unable to support the solar arrays.

Year	CO ₂ Total (tonnes)	CO ₂ per employee
2019	721.5	5.3
2020	526.3	8.1
2021	537.7	8.0
2022	559.8	7.8
2023	572.4	7.7


Water

The water usage in 2022 has decreased on previous years usage. We continue to use flow-check valves and level probes, as well as making sure that tank maintenance is planned such that a minimum of water is used and lost through the process, as far as possible. We introduced croffles to the surface of some of our processing tanks in 2023 to further insulate them, which is helping reduce evaporation and water usage, but due to the substantial increase in work throughout 2023 it has resulted in a slight increase in water usage. If we had not put the croffles in place or shut off water to rinses when not in use, then this increase would be a lot more. We are also looking to introduce more counter flow rinses to further reduce water usage, whilst still complying with stringent aerospace specifications.

Year	Water (M ³)	Water per Employee
2019	50124	371.2
2020	33637	517.4
2021	31676	472.7
2022	27081	376.1
2023	29007	391.9

In conclusion

There has been an increase in overall waste and CO² produced. This is in line with increasing turnover in business, due to the level of work increasing above 2019 levels (pre-covid). We are continuing to work towards improving our environmental performance in every aspect, a goal that is driven by the entire management chain, not just as a matter of legal requirements but also to remain an environmentally responsible company.


HSE & Facilities Manager
Cardiff 28/03/2024