

Section 4.1.3 of Kepak Group Limited's Merthyr Tydfil's Environmental Permit requires this summary report of the previous year's performance against the targets set in EP 203 of the site's EMS.

Targets Overview

These targets are detailed in the Targets, Objectives & KPIs (EP 203) section of the EMS. To meet these objectives and targets an Environmental Target Plan (EP 331) has been developed to track progress.

Environmental	2018	2019	2020	2021	2022
Environmental Permit Banding	50% A/B	50% A/B	50% A/B	50% A/B	50% A/B
	0% E	0% E	0% E	0% E	0% E
Energy per tonne of product	2% YOY reduction	2% YOY reduction	2% YOY reduction	2% YOY reduction	2% YOY reduction
Water per tonne of product	2% YOY reduction	2% YOY reduction	2% YOY reduction	2% YOY reduction	2% YOY reduction
Reduce Food Waste	1% YoY Reduction	1% YoY Reduction	1% YoY Reduction	1% YoY Reduction	1% YoY Reduction
Landfill	Zero	Zero	Zero	Zero	Zero
Environmental Management System	Implement	Certify	Certify	Certify	Certify
Complaints	Reduction	Reduction	Reduction	Reduction	Reduction
Incidents	Reduction	Reduction	Reduction	Reduction	Reduction
ETP Compliance	Reduced Incidents	Reduced Incidents	Reduced Incidents	Reduced Incidents	Reduced Incidents

Target Progress Summary

To efficiently track Merthyr's progress towards achieving these targets, the site monitors KPIs weekly, monthly and annually, as well as also tracking the progress and feasibility of continuous improvement projects.

On the majority of KPIs, Merthyr is currently performing well, and energy and water targets are being met.

Enviro Performance	2020 Target	2020	2021	2022
Environmental Permit Banding	50% A/B 0% E	E	D	E
Energy per tonne of product	652.2	594	682	348.48
Water per tonne of product	2.26	2	2.42	2.23
Environmental Management System	Implement System	Certified System	Certified System	Certified System
Meet Customer Requirements	Silver & Gold plans	Requirements met	Requirements met	Requirements met

81% Reduction in odour and noise complaints compared to 2021 – Achieved via increased internal noise and odour assessments and public outreach.

1st on-site ISO14001 audit since pandemic conducted Oct 2022 – No non-conformances identified.

In 2022 a number of improvements were completed or initiated. These are as follows:

- We have recently invested in an automatic pH control system that monitors and controls the effluent pH by chemical addition. The pH controller has a present pH set point for the effluent and uses this measured value to determine whether the effluent is within compliance with that set point. If not, chemical pumps are operated to inject acidic or caustic solutions as required to bring the effluent in the holding tank to the correct level. This has already improved the clarity of wastewater and has yielded more consistent pH levels during analysis.
- The effluent treatment plant has received investment in terms of the flow control system, this system has now become automated allowing for a set flow in terms of cubic meters per hour which ensures compliance with IPPC conditions of discharge rate and volume.
- The site, along with other sites in the group have undertaken a water mapping project which is designed to identify points of high water usage and opportunity for savings. The method places an energy and monetary value on water streams based on factors such as volume, heat input and chemical input. The result of this exercise so far has highlighted the need for more internal meters to gain a clearer picture of site water flow. It has also identified knife steriliser units as a significant user of water, this has subsequently launched an investigation into using high-efficiency sterilisers in an effort to save hot water.
- Company Endotherm has been contacted to explore radiator system additive to improve thermal efficiency. Cost saving and ROI calculated, awaiting CAPEX approval.
- Six concrete slabs replaced around exterior of site as per replacement schedule. Project ongoing into 2023.
- In early 2022, improvements were made to the monitoring of the refrigeration system through the installation of a series of small automatic gas leak detectors. The equipment, installed by Bacharach, senses the presence of refrigerant gases, and raises audible and visible alarms so leaks can be quickly dealt with.
- We are in the infancy stage of a number of projects to reduce energy consumption and emissions. These include rainwater harvesting, installing ground-based solar panels, and replacing the motors in our compressors with novel brushless motor technology which integrated with our building management system.
- Improving Biodiversity – Cultivation of wild meadow areas on site alongside tree-planting program to improve biodiversity.