



2024 Quadrennial Energy, Material and Waste review – executive
summary

Environmental Permit EPR/BB3790FX v1

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1. Quadrennial Energy Efficiency review

1.1 Executive summary

This quadrennial energy efficiency review has been one of a simple synopsis and draws upon detailed analysis submitted as part of our annual reporting. Please refer to previous annual reporting submissions for further detailed information.

The review has covered 2.4 Condition 1.2.1 (b) Energy efficiency, 2.5 Condition 1.3.1 (c) Efficient use of raw materials and 2.6 Condition 1.4.1 (b) Avoidance, recovery and disposal of wastes.

The methodology of this review is to compare the data captured from 2020 and 2023. It is noted that opportunities for improvement implemented during the review period have resulted in a reduction in the environmental impact for all of the above conditions.

The energy review indicates that AluK (GB) Ltd have made significant strides in reducing energy consumption and have identified opportunities for increasing the use of renewable energy sources.

While our strategic improvement plan currently prioritizes opportunities related to electricity and water, no gas related opportunities have been identified during this review. AluK (GB) Ltd remains committed to identifying and pursuing gas usage improvement opportunities going forward.

AluK (GB) Ltd has approved fixed water meters to be located strategically across the site to identify improvement opportunities. During the review period the water consumption decreased significantly by 61.29% (16,015m³ less than in 2020). Key contributing factors include a greater focus on water monitoring, proactive/reactive initiatives (such as sprung loaded taps and toilet repairs), remote water meter installation, the impact of COVID-19, and lower production volumes. AluK (GB) Ltd will continue to investigate the rainwater harvesting.

Waste Separation Requirements (Wales) Regulations 2023 were introduced in April 2024 with the aim of ensuring that waste is managed in a manner that promotes high quality recycling.

For AluK (GB) Ltd, these regulations have obligated them to investigate further recycling



opportunities for their waste streams. Currently, they are focusing on the recycling possibilities of their cardboard cores. However, this task is challenging due to the layers of glue used during the manufacturing process of these cores. Discussions with their waste management contractors have confirmed these challenges. Additionally, Aluk (GB) Ltd has also explored recycling options for their waste powder paint. While their powder paint recycling system recovers a certain percentage, they continue to explore further recycling opportunities.