Bridgnorth Aluminium

ESG Roadmap 2024-2050



BRIDGNORTH ALUMINIUM LIMITED

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About this Roadmap

This roadmap has been developed to showcase Bridgnorth Aluminum's commitment towards long-term sustainability.

Emissions data disclosed in this roadmap has been modelled using the endorsed ASI emissions pathway calculator, which is aligned to a 1.5°C warming scenario.



Our Message

At Bridgnorth Aluminium, the sustainability of our products is critical to enabling continued success in the variety of markets we serve. As the UK's leading aluminium rolling manufacturer, we are committed to ensuring that significant attention is given to the decarbonisation of our own operations through both direct and indirect emissions reduction. We recognise that our efforts help play an important role within wider industrial decarbonisation endeavours, helping to demonstrate the possibilities for a more sustainable future across heavy and energy intensive industries such as aluminium.

Aluminium as a material, is fundamental to achieving net zero ambitions on a global scale, with applications for a wide range of supporting transition technologies, infrastructure/construction uses and recyclable packaging alternatives to name a few.

This roadmap sets out our long-term emissions reduction targets and supports decarbonisation measures up until 2050. Targets developed in this roadmap have been developed using 2024 as our baseline year. Furthermore, all emissions (Scope 1 and Scope 2) have been fully included, whilst for (Scope 3) only category 1 emissions, have been included. This remains in line with the requirements of the ASI Performance Standard, in which the targets disclosed in this roadmap have been calculated in accordance with.

To tackle the significant challenge of decarbonisation in line with our roadmap, we have carefully considered several implementing measures to strategically plan and support our reduction targets. These implementing measure can broadly be split across three defined areas. Firstly, via increasing our internal capacity of processing pre-consumer material. This aims to support our ability to improve and increase product offering which consists of recycled content. Secondly, energy efficiency across all our direct operations will be key to driving successful emission reductions across our Scope 1 and Scope 2 footprint. This will involve the upgrading of key energy intensive machinery, increasing our use of energy sourced from renewables and for direct emissions (Scope 1) we will support transitioning to electric or hydrogen solutions as we reduce our reliance of natural gas. The third and final key enabling implementing measure will be the diversification of supplier sourcing. For Bridgnorth Aluminium, Scope 3 emissions in 2024 represented 96% of the total share of all emissions generated, with category 1 representing 87% of this alone. Therefore, a strong emphasis will be focused on improving our ability to source raw materials more responsibly, through using suppliers who minimise their carbon footprint.

With these core implementing measures, we target reducing our emissions intensity by 29% across all Scope emissions by 2030.

Whilst we consider the targets disclosed in this roadmap as a genuine approach towards harmonising business growth, investments and stakeholder interests with long-term decarbonisation, we understand that forecasting the future decades in advance can be difficult to navigate with real certainty. This roadmap and our associated decarbonisation strategy will therefore be subject to regular and in-depth review. This will allow us to accurately monitor progress, track near-term trends and adapt our strategy as necessary, to any current unforeseen investments, legislation change and technological developments.

We remain resolute in our efforts to overcome the challenges which lie ahead, to ensure that Bridgnorth Aluminium and all associated partners contribute to a more sustainable future.

Ilias Avgerinos

General Manager

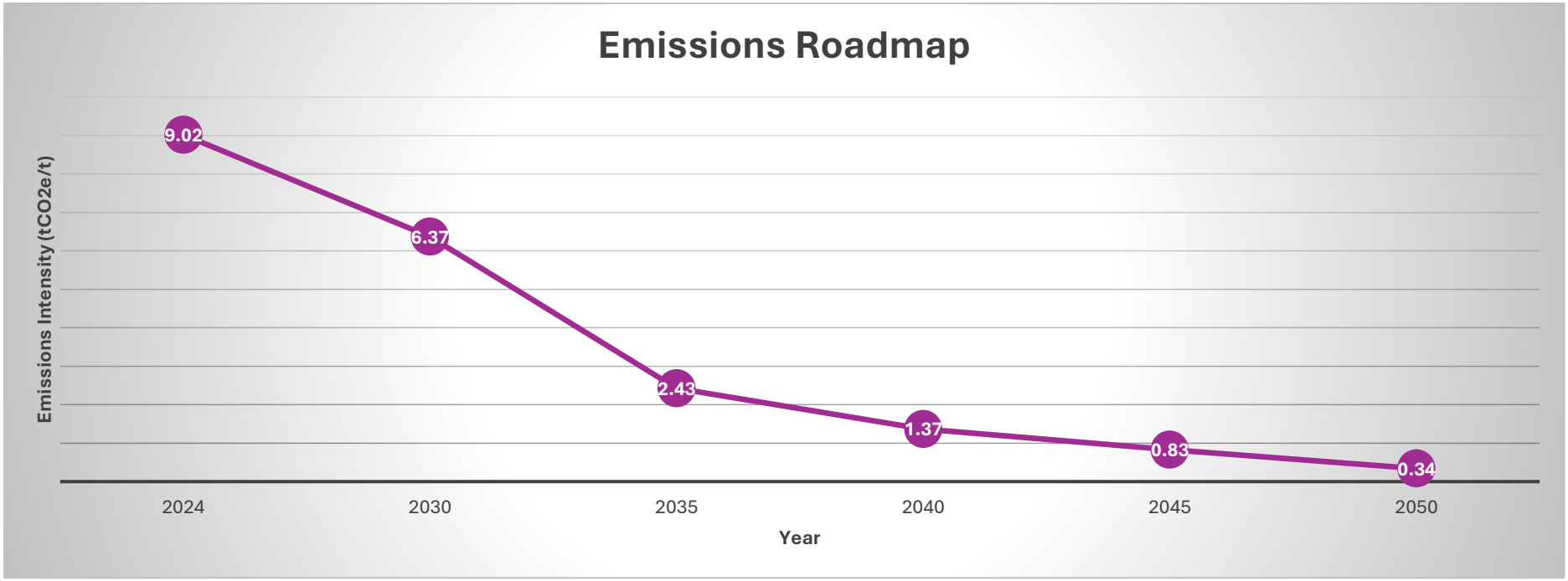


Our Mission

"To safely create innovative and sustainable aluminium solutions, powered by the dedication of our people, the strength of our partnerships, and a long-term commitment to our customers, our community, and future generations."

Emissions Intensity Roadmap (2024-2050)

Our planned emissions intensity reduction across scopes 1, 2 and 3 covering the period between 2024-2050. Targets shown have been calculated and modelling in accordance with the ASI 1.5°C warming scenario. Our first interim target is to achieve a 29% reduction in emissions intensity across all scopes by 2030. This will be achieved through several implementing actions, mainly covering adaptations made to raw material sourcing. This and other measures are further explained on page 6.



Note that scope 3 emissions data used in this roadmap has been inclusive of category 1 (Purchased goods and services) emissions only.

Implementing Measures

Increasing Recycled Content

Expanding our use of recycled content forms a critical part of our long-term business plan. To increase average recycled content across all products from 49% as in 2024, we are assessing possible investment into a cutting-edge recycling facility to enable the processing and sorting of a more diverse range of scrap aluminium. This would provide the cornerstone for increasing our internal processing capacity and therefore percentage of recycled content within our finished products.



Energy Efficiency and Use of Renewables

We target to achieve a 6% reduction in Scope 1 emissions by 2030, through making efficiencies in our gas fueled assets. Specifically, we have projects in early stages of planning which involve the replacement of burners used in our furnaces and improving emissivity to enhance melting rates. As for Scope 2 emissions, we target to achieve a 16% reduction by 2030. This will be achieved through a combination of improving the energy efficiency of our electrical based equipment and obtaining more locally generated renewable power.



Responsible Sourcing

With over 95% of our total emissions being generated from our Scope 3 activities, and a significant proportion of that arising from the procurement of raw materials, achieving any meaningful progress on emissions reduction will undoubtably require a changed approach towards the way we source materials. This will not only involve the strategic selection of suppliers but also a strengthened approach towards responsible sourcing and improved engagement with our critical and material suppliers on all elements of sustainability performance.



Challenges and Assumptions

Upstream Industry Decarbonisation

The challenge for the upper value chain in the aluminium industry to decarbonise, if an even greater challenge than what is confronted by Bridgnorth Aluminium. The significance and materiality for the upper value chain to decarbonise is well recognised and understood, Bridgnorth will remain positioned to lobby for supportive regulation that can help the entirety of the industry, particularly in relation but not limited to the following topics: Climate Change & Decarbonisation, Energy Efficiency, Recycling & Circularity.

Innovation and Development of New Technologies

The role of future innovation will also play a key role for the aluminium industry in its transition and journey towards net-zero. Technologies currently readily available do not offer a truly sustainable alternative, or are not feasible at scale to implement, or extreme financial costs create a blocker to wide scale accessibility. For these reasons, developments in new technologies such as Hydrogen, Inert anodes and advanced electrolysis methods could all play an intrinsic role for sector wide decarbonisation. However, any new or advanced technologies, need to be supported through investment to enable attainability at breadth and affordability, to become realistically feasible solutions to the current challenges faced.

Enforcement of New Legislation to Create Change

With global demand for aluminium expected to grow 40% by 2030 compared to 2020, the support of global governance is fundamental to enable the shift required across all elements of the value chain. New legislation focus on energy will be particularly important given the energy intensive nature of aluminium manufacturing. This will not only need to be applicable to end user markets but also in countries which play a core role in mining, refining and smelting of aluminium. Furthermore, supporting an energy transition which shifts towards more renewable sources particularly in countries with a renowned reliance on coal, will also be essential to ensure a fair and just transition at a global scale.

Focusing more on a national level (UK), Bridgnorth Aluminium remains to be politically active on topics including CBAM, Energy and Scrap Retention to help support for a more sustainable and circular industry which protects UK market competitiveness.

For more information visit https://bridgnorthaluminium.co.uk/

Or email communications@bnal.co.uk

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