

ALVANCE BRITISH ALUMINIUM.

Green Aluminium
Recycling & Billet Plant.

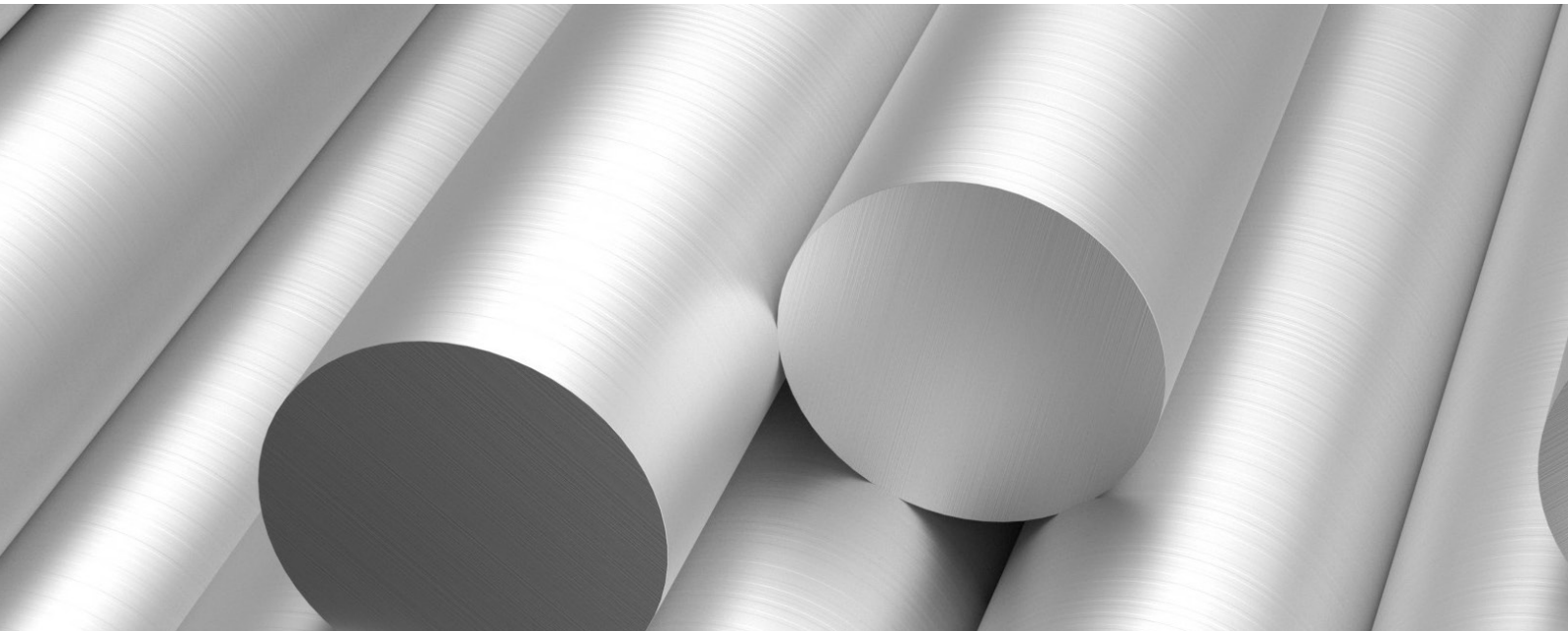


ALVANCE

FUTURE RECYCLING AND BILLET PLANT

ALVANCE British Aluminium is the last remaining aluminium smelter in the UK and is powered by its own hydropower plant. Based in Lochaber in the Scottish Highlands, its hydropower operation makes the site one of the greenest metal production plants in the world.

Lochaber smelter has a production capacity of 48,000 tonnes per annum which is equivalent to producing some three billion aluminium soft drink cans every year. Products from the smelter are sold in the UK and across Europe and will be further processed in the value chain for use across a range of industries and applications such as transport, construction, engineering and packaging.



This guarantees a sustainable metal quality with a carbon footprint:

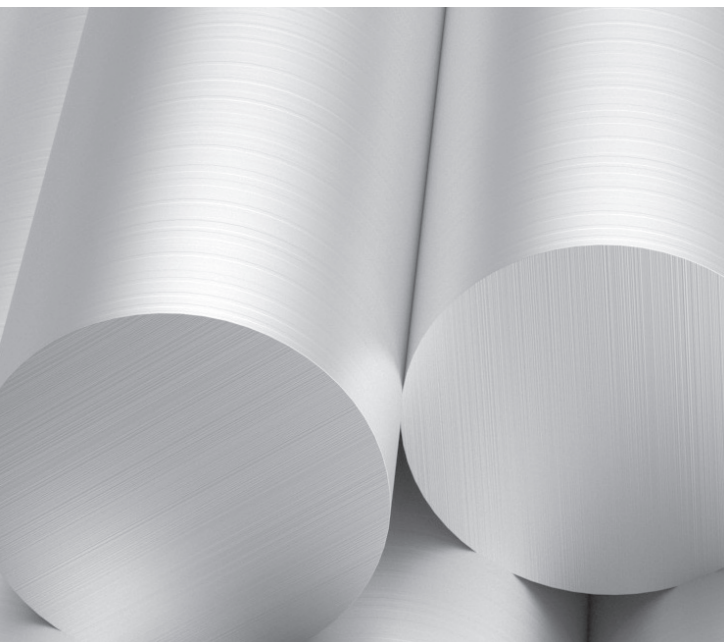


*Mined to Metal (scope 1, scope 2 and upstream scope 3)

ALVANCE plans to introduce a 100kt state-of-the-art billet and recycling facility adjacent to the smelter using green energy, sourced from the existing hydro-electric plant on site. The billet plant will be equipped with re-melt furnaces that can utilise pre- and post-consumers scrap.

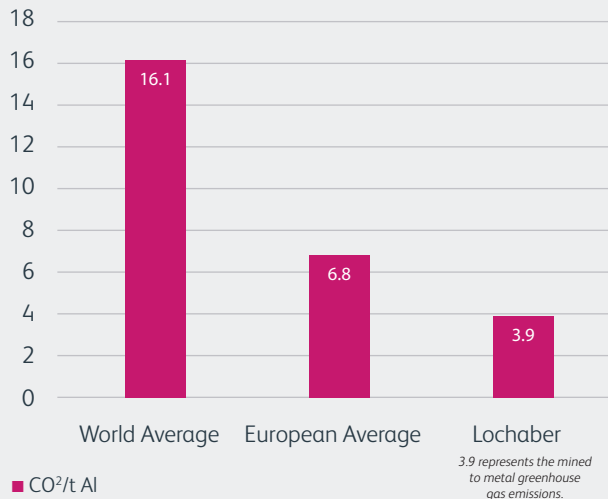
The metal input into the casthouse will be a blend of molten primary metal from the adjacent smelter and secondary metal, a combination unique to Lochaber in the UK which ensures the production of high-quality billets.

This will further reduce the environmental impact and carbon footprint of our product and can also help to optimise customer scrap flows.



Lochaber Smelter vs Industry Standard

to CO₂ / t to Aluminium Sources: IAL, EA, Hydro, ALVANCE



CN30

A GFG INITIATIVE

Aligned with our CN30 targets, we have opportunities to offset our carbon footprint against our natural capital within our hydro-scheme estate with peatland restoration, forestry and wider biodiversity projects.

ALVANCE'S NEW FACILITY

ALVANCE has full planning permission for its new facility and plans to break ground in 2024/2025. This will allow us to start providing low carbon footprint billet to the market by 2026/2027. The new facility will be able to offer a range of 6xxx series alloys along a broad spectrum

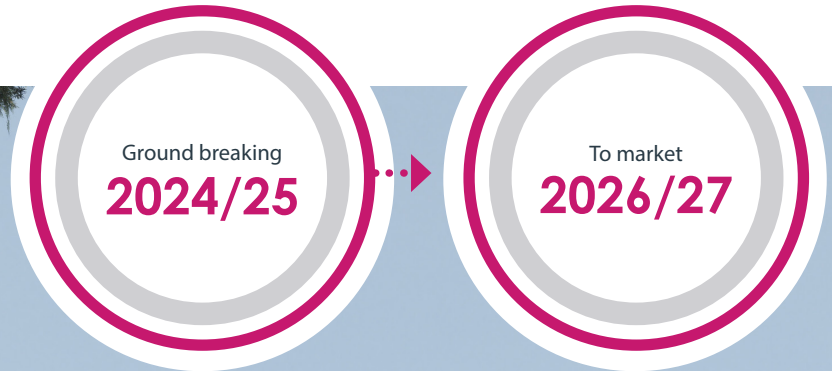


Image © Keppie Design Ltd

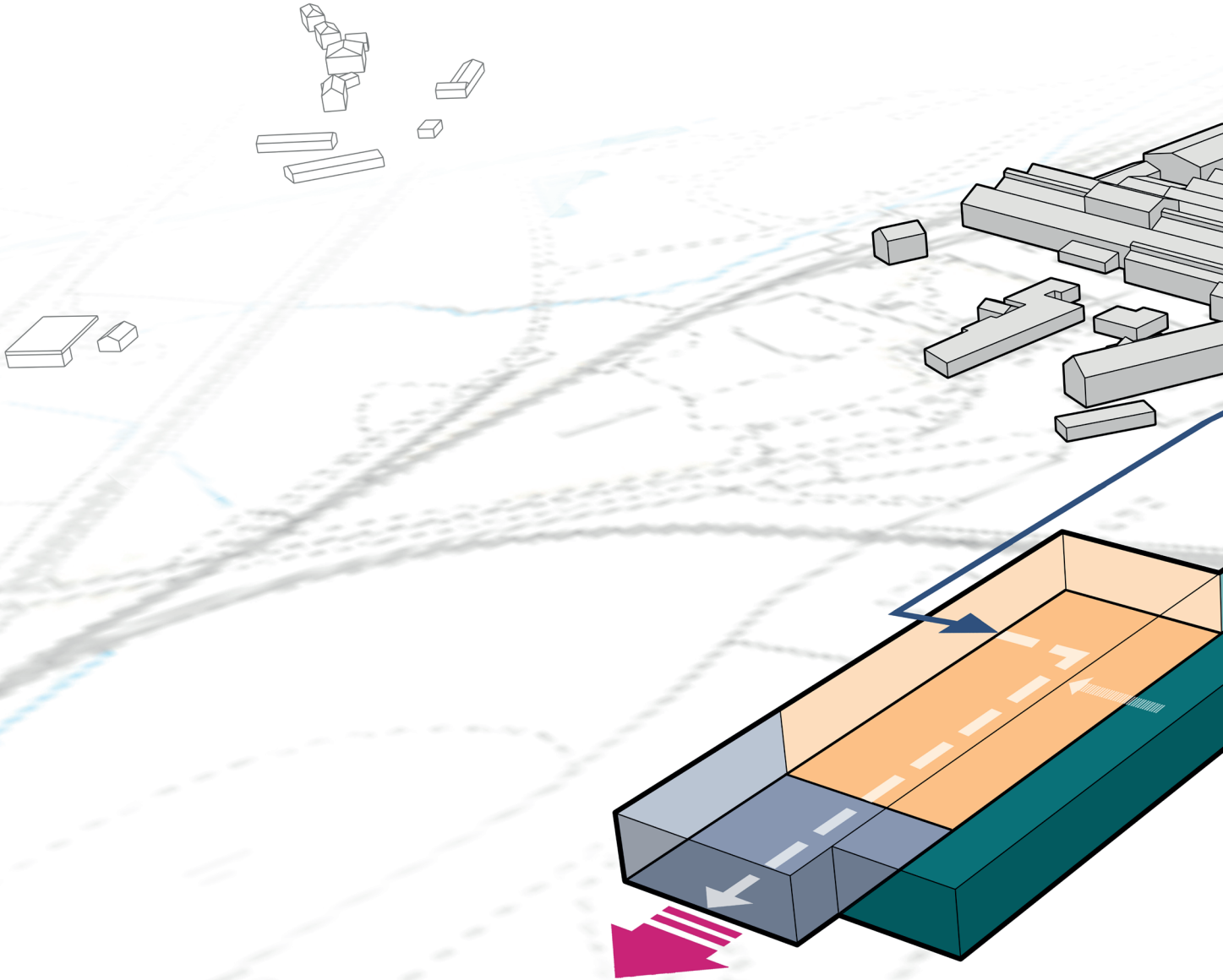
We will offer a large selection of diameters, ranging from 7" (179 mm) to 11" (279 mm). We can offer a sawn billet length of up to 8 meters. Our alloy range will cover 6xxx series billets (AlMgSi), mainly 6060/6063, 6005 and 6082.

With the unique set-up of a recycling plant next to a hydro-powered primary smelter, Alvanco will ensure a high content of scrap is used to produce billets with one of the lowest CO₂ footprints in the world.



RECYCLING & BILLET CASTING PROCESS

The adjacent diagram provides an overview of the process. The diagram indicates the green energy and molten aluminium from the existing smelter to be utilised in the facility alongside the recycled scrap metal to produce the aluminium billets.



Hydro Scheme



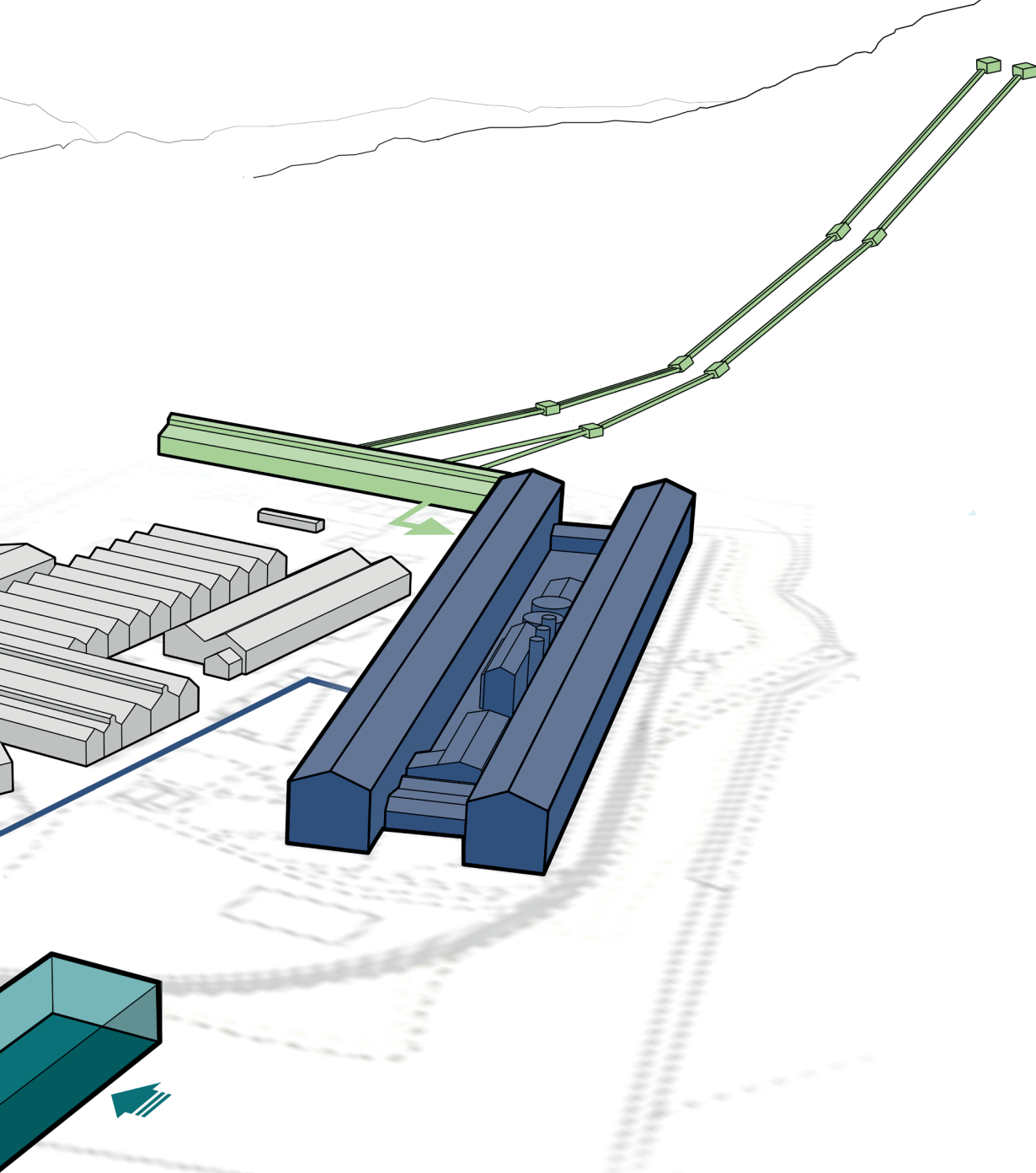
Creation of
Hydro Power



Molten
Aluminium



Transportation
of Aluminium to
New Facility



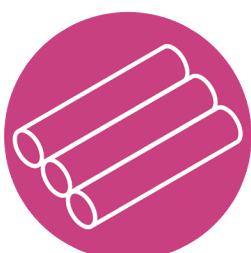
Recycled
scrap



Casting
Process



Finishing Process



Billets

DISCLAIMER

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ALVANCE



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