### **PENSANA** Plc



# Pensana's Deep and Meaningful Low Carbon Value Chain

Pensana has integrated low carbon projects into the design of its Longonjo mine and Saltend processing hub

### **Circular Economy**

Pensana will play its role in the circular economy and develop a world-class rare earth recycling facility.

### Low Carbon Logistics

The Longonjo operations are located adjacent to the recently refurbished Benguela railway line which will transport material directly between the mine and the port, displacing the need for diesel intensive road travel.

### Hydropower

The Longonjo operations will use hydropower as part of its operations in Longonjo saving approximately 66,000t CO2e/year.

Pensana will promote deep and meaningful carbon reduction across our entire value chain to be net zero no

later than 2040

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### Value Chain Partnerships

Pensana's link with Equinor's Hydrogen to Humber partnership will allow Pensana to use hydrogen.

### Renewable Energy

The Saltend Refinery will utilise offshore wind from the Humber estuary as part of a suite of low carbon energy supply from its partnership with the Yorkshire Energy Park, saving in the first instance 5,000 tC02e/year.



### Electrification

Plant items, which are traditionally energy intensive, have been electrified and will utilise the sites' low carbon power.

This includes the kiln at Longonjo which has been removed from the design, saving approx. 10ML of diesal per year and 25,000 tonnes c02e per year.

### In Country Beneficiation

The additional onsite step, unique to Pensana, of producing a mixed rare earth sulphate (MRES) reduces the weight being transported by rail and ship. This saves around 11,000 tCO2e/year.