

# Vedanta Aluminium

## The most sustainable aluminium producer in the world today

As India's largest producer of aluminium, and among the world's largest, Vedanta Aluminium is committed to building a sustainable future enabled by responsible production and wider access to high-quality aluminium products. As part of these efforts, we aim to align the pursuit of business excellence with the urgency to preserve the planet. True to our commitment, Vedanta Aluminium is 'Transforming for Good' – an accelerated sustainability journey that includes the goal of achieving Net Zero Carbon by 2050. Our ESG initiatives thus encompass Carbon Reduction & Energy Efficiency, Renewable Energy, Environment Management, Water Neutrality, People Practices, Health & Safety, Communication, Supply Chain, Communities & Social Performance, and Finance.

### Highlights of Our Environment & Sustainability Journey

- Ranked 1st in the S&P Global Corporate Sustainability Assessment (CSA) 2023 for the aluminium industry
- Certified by Aluminium Stewardship Initiative (ASI) for demonstrating sustainable operations at smelters in Jharsuguda, (Odisha) and BALCO (Korba, Chhattisgarh)
- Received Environmental Product Declaration (EPD) verifying our extensive product range as environmentally sustainable

### Carbon Reduction & Energy Efficiency

- Committed to achieving Net Zero Carbon by 2050
- Reduced greenhouse gas (GHG) intensity by 28% in FY23 from the FY12 baseline, while enhancing production threefold in the same period
- Inducted India's largest fleet of electric forklifts, powered by innovative green battery technology
- Conserved ~1.43 million GJ of energy through impactful energy efficiency initiatives



### Sustainable Products

- Launched India's first low-carbon, 'green' aluminium brand 'Restora', enabling customers to decarbonize their value chains
- Two product lines offered - Restora (low-carbon aluminium) and Restora Ultra (ultra-low carbon aluminium)
- Restora's GHG emissions intensity\*\* is less than 4 tCO<sub>2</sub>e per tonne of aluminium manufactured (the global threshold for aluminium to be considered low carbon)
- Restora Ultra's GHG emissions intensity is near-zero, amongst the lowest in the world!
- Supplying 'Restora' to customers in both domestic and international markets

\*\*GHG emissions intensity is measured as the sum of Scope 1 and Scope 2 emissions. The global requirement for aluminium to be considered as 'low carbon' is 4tCO<sub>2</sub>e/t (tonnes of CO<sub>2</sub> equivalent per tonne of aluminium produced). Both Restora and Restora Ultra fall within this threshold

### Circular Economy

- Achieved 200% utilization of by-products (fly ash and red mud) in FY23, embracing circular economy practices
- Utilized over 25 million tonnes of fly ash in impactful applications such as cement manufacturing, green road construction and brick production
- Established long-term partnerships with cement companies for supplying fly ash
- Established an innovative Material Recovery Facility at Vedanta Jharsuguda, transforming waste to wealth through advanced and sustainable non-hazardous waste segregation practices



### Nurturing Biodiversity

- Planted over 2.5 million native saplings for progressive rehabilitation of mined-out areas
- Established a Butterfly Park in Jharsuguda and an Avian Arena in Lanjigarh to protect local flora and fauna
- Collaborated with ERM India to bolster our Biodiversity Management Plan (BMP), reinforcing commitment to biodiversity conservation
- Participant in World Economic Forum's 1 Trillion Tree movement for global conservation
- Introduced the high-impact Miyawaki method of afforestation at mining locations

### Renewable Energy & Green Fuels

- Utilized 1.37 billion units of renewable energy, equal to 150 MW from a thermal power plant
- Entered into long-term power delivery agreements to source 1335 MW of renewable energy
- Successful deployment of biofuels and biomass briquettes, aligned with carbon reduction goals
- Achieved 4% mix of renewable energy in FY23, with clear short-to-long term target

### Water Management

- Recycled nearly 14.5 billion litres of water and conserved over 1500 million litres
- Emerged as a national benchmark in water efficiency within the aluminium industry
- Revitalized 80+ local water bodies across rural India, guaranteeing crucial year-round water access for households, agriculture, and livestock
- Committed to achieving water positivity across operations by 2030

