



Vedanta Aluminium

The 2nd most sustainable aluminium producer in the world today

Being India's largest producer of aluminium, at Vedanta Aluminium Business, we strive to align incentives for the business with imperatives for the climate. With our climate at a tipping point, this is the decade of action where challenges meet our problem-solving abilities. As testimony to our determination, Vedanta Aluminium is **'Transforming for Good'** – a journey that will see us deliver on our vision of Net Zero Carbon by 2050. Our ESG initiatives to drive climate action are in the areas of Carbon Reduction & Energy Efficiency, Renewable Energy, Environment Management, Water Neutrality, People Practices, Health & Safety, Communication, Supply Chain, Communities & Social Performance, Finance and Growth & Expansion.

Highlights of Our Environment & Sustainability Journey

- **2nd in the Dow Jones Sustainability Index (DJSI) World Rankings 2022** amongst aluminium producers
- Secured the Vedanta Group's first Sustainability Linked Loan (SLL) for financing capex investments for green growth
- Our Alumina Refinery and Aluminium Smelters are ISO 14001:2015 Environment Management Systems (EMS) certified

Carbon Reduction & Energy Efficiency



- Substantially reduced greenhouse gas (GHG) intensity of our largest aluminium smelter by around 12%, while increasing production by 20%*
- Reduced GHG emissions intensity of Vedanta Aluminium Business by 24%*, over 2012 baseline
- Lowest GHG intensity amongst aluminium producers in India
- Commissioned India's largest industrial electric fleet of 27 forklifts powered by lithium-ion batteries
- Conserved around 2.18 million Giga Joules of energy*, resulting in GHG emission savings of more than 4 lakh tonnes of CO2 equivalent (tCO2e)
- Committed to decarbonize operations in the long run and become Net Zero Carbon by 2050

Sustainable Products



- First from India to launch low carbon aluminium brand 'Restora' to enable customers meet their sustainability goals
- Two product lines – **Restora** (low carbon aluminium) and **RestoraULTRA** (ultra-low carbon aluminium)
- Restora's GHG emissions intensity** is well below 4 tCO2e per tonne of aluminium manufactured (the global threshold for aluminium to be considered as low carbon aluminium)
- Restora Ultra's GHG emissions intensity is near-zero, amongst the lowest in the world!

**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 4tCOe/t (tonnes of CO2 equivalent per tonne of aluminium produced). Both Restora and Restora Ultra are well below this threshold.

Circular Economy

- Ensuring gainful utilisation of our by-products like fly-ash, lime grit, bauxite residue and dross through circular avenues
- Over 13 million tonnes of fly-ash utilized in cement production, brick manufacturing, construction of 'green' roads, etc.
- Partnered with a circular-economy start-up to recover aluminium from dross, for producing green aluminium
- Supplying fly-ash and lime grit free of cost to local MSMEs for manufacturing eco-friendly bricks
- Long term partnership with infrastructure and cement companies for supplying fly ash

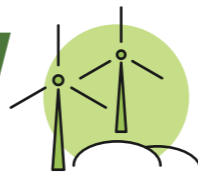


Nurturing Biodiversity



- Planted more than 2.5 million saplings of indigenous species for progressive rehabilitation of the mined-out areas of our bauxite mines
- Undertaken conservation projects for indigenous bird species
- Developed water storage and groundwater recharging structures for nurturing biodiversity at mined-out areas
- 6 million saplings planted till date and counting, creating massive carbon sinks near our plants

Renewable Energy & Green Fuels



- India's largest industrial consumer of renewable energy at 3 Billion Units*
- Signed Power Delivery Agreement for sourcing 380 MW renewable power for our aluminium smelters
- Exploring applications of biomass, biodiesel, and other forms of biofuels as greener energy sources for our operations



Water Management



- Recycled more than 15 billion litres of water for reuse and conserved more than 827 million litres of water*
- Created rainwater harvesting structures across our plants to recharge groundwater
- Helping local farming communities adopt climate-smart agriculture through better resources, modern farming technologies, etc.
- Constructed over 340 water infrastructures (ponds, borewells, water shed/check dams) for 127 water deficient villages
- Committed to making our operations water positive by 2030

*In FY 2022

