

MINAS GERAIS/ BRASIL SUCCESSFUL CASES

INDUSTRY

GERDAU S.A.

With 123 years of history, Gerdau is the largest Brazilian steel producer. As the largest recycler in Latin America, Gerdau considers scrap as a crucial raw material, with 70% of its steel produced using this material. Each year, 11 million tons of scrap are transformed into various steel products. The company is also the world's largest producer of charcoal, with over 250 thousand hectares of forest base in Minas Gerais. As a result of its sustainable production matrix, Gerdau has one of the lowest average greenhouse gas emissions, at 0.91 tCO₂e/t of steel (2023 year, scopes 1 and 2), representing roughly half of the global industry average. By 2031, Gerdau aims to reduce the average to 0.82 tCO₂e/t of steel, with the ambition to achieve carbon neutrality by 2050.

Biomass and Renewable Energy



Gerdau is the world's largest producer of **charcoal**, a **renewable** carbon source used in units in **Minas Gerais**. The charcoal is derived from planted forests that undergo **sustainable management**, and in 2022, these forests sequestered **16 million tons of CO₂**. The company allocates **90 thousand hectares** for **biodiversity** conservation.



Charcoal is also utilized in the **Ouro Branco** plant, partially replacing mineral coal in the production of **biocoke**. In **2022**, the **emission** avoided approximately was 64 thousand tons of CO₂e. In 2023, the company advanced to 90 thousand tons of CO₂e.



With a investment of **R\$ 3.2 billion** in a new responsible mining platform, Gerdau aims to produce **high-quality** iron ore, ensuring greater **operational efficiency** and reducing **greenhouse gas emissions** in steel production.



Through **Gerdau Next**, the company's business development arm, **Newave Energia** is investing in a **Solar Park in Minas Gerais**. This initiative will contribute **30%** of Gerdau's **renewable energy** in Brazil to crude steel production, avoiding the emission of approximately **22 thousand tons of CO₂e** per year.



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