

GERDAU'S COMMITMENT TO CLIMATE CHANGE

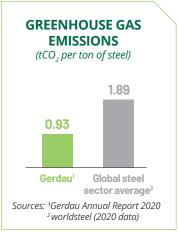
Climate change is an important topic for Gerdau within its **business** and **sustainability strategy**. Since its foundation **121 years** ago, the company has been operating with a production matrix based primarily on **recycling scrap and charcoal**, which has placed it always among the lowest greenhouse gases emitters in the global steel industry. In 2020, the company started publishing its audited carbon data and is working on a strategy to further reduce its emissions.

In this report, you will learn about Gerdau's current position in **greenhouse gas emissions** compared to the **steel industry** and the initiatives proposed to reduce these emissions in both the short, mid and long terms. Steel is an **essential and irreplaceable material, infinitely and 100% recyclable**, which is in the lives of millions of people at different moments and locations in their routines, in the houses where they live and in the means of transport they use. Steel is present in new power generation technologies, as raw material for solar panels and wind towers, and also in new infrastructure solutions, all of which make it a crucial material for **decarbonizing** the planet.

AN X-RAY OF THE CURRENT SCENARIO

Gerdau today has one of the lowest average greenhouse gas (CO₂e) emissions in the global steel industry.

Gerdau's greenhouse gas emissions are equivalent to about half of the global emission average of the steel industry. And this has already ensured Gerdau a prominent position in the industry.





And what are the reasons that enabled the company to achieve these lower averages?

Gerdau's production model stands out:

73% of the steel produced comes from recycled scrap.

2. Gerdau is the largest recycler in Latin America:

11 million

tonnes of scrap are transformed into steel every annually. Using ferrous scrap enables lower emission of greenhouse gases during steel production, besides saving natural resources such as water and raw materials and reducing energy consumption.

Steel is an infinitely recyclable material and each ton of scrap recycled avoids the emission of 1.5 tonnes of CO₂e.

3. Gerdau is the world's largest charcoal producer and has over

617,763 acres

of planted forests in the state of Minas Gerais, Brazil, for this purpose. Approximately 224,866 acres are preserved native forests, an area larger than the city of São Paulo. 4. Gerdau's planted forests are renewable raw materials for charcoal, which functions as a bioreducer when producing pig iron, which in turn produces steel emitting less greenhouse gases.

IN OTHER WORDS: Around

80% of Gerdau's production

is already based on the use of recycled (scrap) or renewable (charcoal) raw materials.

ASPECTS OF OUR MANAGEMENT

Gerdau has been making great strides in how it manages this subject. Currently, the company's efforts are based on 4 pillars:

Through structured discussions at the highest governance levels, the Strategy and Sustainability Committee was established in 2019 established, while discussing capital allocation and defining investment plans together with the Board of Directors, considers the ESG factors - and not just the production and return on capital aspects – while taking decisions. Moreover, in 2021, **the performance targets for ESG indicators**, such as ${\rm CO_2}e$ emissions, were included in the Long-Term Incentive Plans (ILP) of the company's senior executives.

Wenton GERDAU

The Company's **greenhouse gas (GHG) inventory** data is subject to independent external audit. Scope 1: direct GHG emissions; Scope 2: indirect energy GHG emissions; and Scope 3: other indirect GHG emissions for units in Brazil, United States and Canada. Points for improvement in managing the issue at the operational units were raised, and are being addressed in actions plans, with monthly follow-up.

Adoption of the MACC (Marginal Abatement Cost Curve) and MEAC (Marginal Energy Abatement Cost Curve)

methodologies to establish the short-, medium- and long-term emission reduction targets. The study aims to explore both available and evolving technologies that are relevant to Gerdau's steelmaking process, examine those eligible, prioritize and plan investments.



Gerdau aims to **listens to all its stakeholders**, including customers, investors and communities, to know their needs on this subject, such as inventories, life cycle analysis and environmental product declaration.



RECOGNITION



 Our greenhouse gas emissions were rated B- by the Carbon Disclosure Project (CDP) in the Climate Change module, which was higher than the average for South America and the industry in 2021.



 Gerdau units are recognized as among the best performers in greenhouse gas emissions by the World Steel Association (worldsteel).



• Gerdau is the first steelmaker included in the Carbon Efficient Index (ICO2), compiled by B3, the Brazilian Stock Exchange, in partnership with the Brazilian Development Bank (BNDES). This index consists of stocks of companies included in the IBrX-50 index which undertook to follow transparent practices in relation to their greenhouse gas emissions (GHGs), underscoring their concern with global warming.

LEARN ABOUT OUR COMMITMENT FOR 2031

Gerdau is committed to a low-carbon economy and has drawn up a mediumand long-term strategy to be part of the solutions in this regard. This is Gerdau's target:



*Base year 2020. The target refers to Scopes 1 and 2.

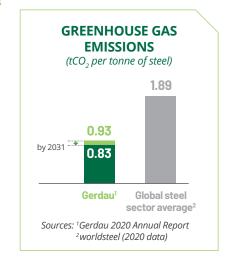
What does that mean?

Gerdau will reduce its emissions from

0.93 t/CO₂e per tonne of steel



0.83 t/CO₂e per tonne of steel





In 2031, Gerdau will be in a select group of the world's most efficient steelmakers in reducing emissions.

To put things into perspective, the global steel industry would have to cut its current greenhouse gas emissions by 50% to reach our new level.

And how will Gerdau do this?



Greater energy and operational efficiency



Higher use of scrap in the production matrix



Expansion of the forestry base and investments in the renewable energy business



Investments in new technologies and open innovation

Scrap yard at the Araçariguama Unit (Brazil)

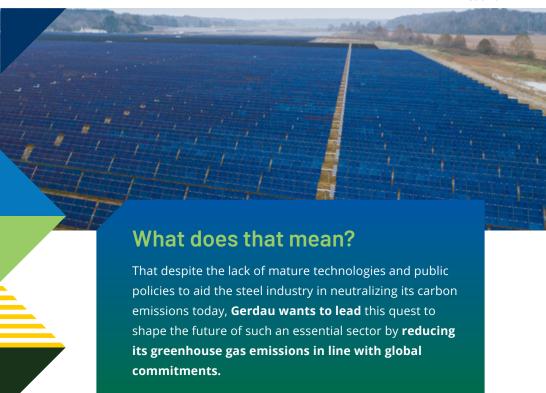


BUT WE KNOW THAT WE MUST GO FURTHER READ OUR AMBITION FOR 2050

Gerdau believes that, as Brazil's largest and one of the world's leading steelmakers, it must be part of the **innovative solutions and disruptions** for a low-carbon economy in the steel industry:



Solar farm



And how will Gerdau do this?



By actively collaborating with industry organizations, universities and research centers in the pursuit of disruptive steelmaking technologies.



By streamlining our production processes and investing in clean and renewable energy matrices:

Examples already in place:

- Solar Farm in Minas Gerais, Brazil: capacity: 200MWdc.
- **Gerdau Solar:** photovoltaic complex located in Midlothian, Texas, with installed capacity of 80MWdc, starting in 2022.



Through dialog and joint development with diverse segments of society to implement public policies, new technologies and improve industrial processes.

- **Public policies:** access to special local, national or transnational financing lines from public or private sources will be crucial, given the heavy investments required to develop disruptive technologies for producing steel with low greenhouse gas emissions. The financing lines currently available do not meet the needs of the steel industry and it is necessary to ensure competitiveness in the transition of existing assets to a scenario of low GHG emissions.

To learn more about the topic, you can watch **Gerdau's Commitment to Climate Change** on our YouTube channel or see the presentation at on our website **www.gerdau.com/climatechange**. To learn more about our Environment Management, watch the video at **ri.gerdau.com**.

WE WANT TO HEAR FROM YOU

What do you think of these commitments and our long-term ambition? This is just one part of our ESG journey, whose mission is to build an increasingly sustainable future based on steel. If you have any questions or want to share your opinion on the subject with us, send an email to: **gerdau.clima@gerdau.com.br**.

To learn more about this and other topics, visit our website and our social media.



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