

SUCCESS STORIES FROM THE STATE OF MINAS GERAIS/BRAZIL

INDUSTRY

LIGAS DE ALUMÍNIO S.A. – LIASA Green Silicon

LIASA is a 57-year-old metallurgical industry and the 3rd largest producer of silicon metal in the Western world, a raw material used in more than 10,000 products, including key components of the sustainability chain such as: **solar panels, electric vehicle motors, microprocessors, and aluminum alloys.** Approximately 90% of the production is exported under the **Green Silicon®** certification.

The company was a pioneer in introducing the use of **bioreducer (as a substitute for fossil coal) in silicon metal production worldwide.** It currently holds the technology for production using **bioreducer from renewable and sustainable forests.**

LIASA is also a pioneer in utilizing solar energy, being the only company in the world to source 100% of its electricity from solar power plants.

The company's ESG strategy also includes **self-production of quartz, with the second largest quartz deposit in Brazil, holding a mining license.** Additionally, it manages the **self-production of bioreducer across 90,000 hectares, of which 45,000 hectares are part of a biosphere reserve.**

The establishment of the industrial plant 57 years ago **led to the creation of the industrial hub in northern Minas Gerais, which is now Brazil's silicon metal hub and one of the largest in the world, fostering both economic and social development in the region.**

LIASA's entire sustainability strategy has been crowned with:

- A negative carbon balance, **capturing 0.95 tCO² per ton of silicon produced. In other words, we remove CO² from the atmosphere by producing silicon!**
- A carbon footprint of 4.90 tCO²/t compared to the global industry average of 10.90 tCO²/t. Without considering biogenic carbon, the result represents a balance of -6.42 tCO²eq/t of silicon metal (Scopes 1 and 2).
- The inventory process for Scopes 1 and 2 was audited by SGS and reported through the GHG Protocol, where we have been awarded the Gold Seal for two consecutive years, ranking among the top 5% of the segment according to EcoVadis sustainability standards.
- For the past two years, we have published our Sustainability Report, strictly following GRI standards.
- Additionally, we are ISO 9001, ISO 14001, and ISO 14064 certified.

