

2022 CBA Annual Report

The future is made of

aluminum

SUMMARY VERSION

Daughters of employees
Elielton Rodrigues
de Almeida, Boiler
Worker at the Sorocaba
Facility (SP), and Flavio
Guilherme dos Santos,
Sustainability Analyst at
the Energy Business




aluminum

 cba

About CBA

#OurCBA

CBA is the only vertically integrated aluminum producer in Brazil, and one of the few in the world, with operations that span from bauxite mining to the production of a comprehensive portfolio of primary and downstream products.

Since our Company was founded, we have produced aluminum with a strong sense of responsibility toward the impact we generate on the environment and society. We are a publicly traded Company, listed in an enhanced governance (*Novo Mercado*) segment of the Brazilian stock exchange, and a member of Brazilian conglomerate Votorantim S.A.

“Aluminum solutions that transform people’s lives” is our purpose, which we pursue by putting sustainability and innovation at the core of our strategy.



**More than
500,000
metric tons**
of primary
and downstream
products

MARKETS SERVED



CBA products and services are supplied to the following markets:

- Automotive
- Building and construction
- Energy
- Agribusiness
- Consumer goods
- Packaging
- Transportation
- Metalworking

CBA LISTED TO ALL THREE B3 ESG INDEXES

CBA was listed in the 2023 Corporate Sustainability Index (ISE B3), ranking 5th. The Company was also named to the Carbon Efficient Index (ICO2 B3) and IGPTW B3, which brings together the top workplaces as listed by Great Place to Work.

From left to right: José Henrique Paes de Araújo, Dilson Silva, Andrea Duarte, Anna Paola Teixeira Bentini, Fernando Beira, Gabrielle Mara do Nascimento, Wannder Cabral, Daniella Stamborovski, employees from the Energy Business



Sons and daughters of CBA employees

The future is made of aluminium

#InThisTogether

CBA’s growth strategy is intrinsically linked to our ESG agenda: we believe our business can only be truly successful if we combine growth with best sustainability practices.

In 2022 our 2030 ESG Strategy was revised to reflect the integration of the Energy Business and the acquisition of Alux do Brasil.

ESG 2030 Strategy Levers



ALENNIUM, THE SEAL FOR THE NEW MILLENNIUM

CBA’s new seal represents our commitment to supplying low-carbon aluminum—the aluminum of the future. The seal can be displayed on products made with our low-carbon aluminum—less than 4 tons of CO₂e per ton of molten aluminum.

The aluminum cycle

#WeAreAllCBA

Eliane Pereira Brito
Borba, Production
Operator, Alumínio
Plant (SP)

Primary Business

MINING

CBA's approach to sustainable mining provides significant social and environmental benefits, and has made us a leader for sustainability in the mining industry by creating positive impacts that extend beyond the aluminum value chain.



2 million

metric tons of bauxite
beneficiated in 2022



63 hectares
rehabilitated

SMELTERS

We restarted Pot Room 3 ahead of schedule in 2022, increasing our production capacity while introducing a new technology that minimizes CO₂e emissions.

347,000

metric tons of
molten aluminum
produced in 2022



ALUMINA REFINERY

Our biomass boiler project has reduced annual boiler emissions by approximately 60% since installation, with our **Refinery now boasting the smallest carbon footprint in the world**, as measured by consulting firm CRU.

Approximately
700,000

metric tons of alumina produced



CASTHOUSE



483,000

metric tons of
cast products produced
at our Alumínio, Metalex
and Alux plants

Downstream Business

In 2022, CBA launched its Primora brand, with door and window frames and facades, designed for medium to high-end real estate developments. The new range will expand our market share in the building and construction segment. Since its initial launch, 90 large developments have been supplied with Primora products.



More than
138,000
metric tons of
downstream aluminum
products manufactured
at our Alumínio and
Itapissuma Plants

Recycling

Recycling plays a central role in our business strategy, enabling us to increase our production volumes while further reducing our carbon footprint.

During the year, work continued on the ongoing installation of a new extrusion scrap processing line at Metalex, the largest in Latin America. The new line will improve recycled content from 60% to as high as 80%, ultimately increasing recycling volumes.

In 2022 CBA also completed the acquisition and integration of Alux do Brasill, marking our entry into the secondary alloys segment. In its first year since integration, Alux increased externally sourced scrap throughput by 35%.



More than
83,000
metric tons of externally
sourced scrap consumed
in our production process

Over
90%
recycled content
at Alux and
65%
at Metalex

Metalex Plant,
Araçariçuama (SP)



Energy Business

ENERGY BUSINESS – OUR COMPETITIVE ADVANTAGE

In 2022 the Company's formerly separate hydroelectric plants were merged into CBA—these plants supply the Company's entire electricity requirement from renewable sources.



1,434 MW

installed capacity

5,897 GWh

of 100% renewable electricity

Diversification in renewable energy portfolio, with solar farms starting operation in 2023



23

hydropower dams

in 6 Brazilian states, including 17 owned by CBA and 6 via joint ventures

72%

of total electricity consumption is from electric power:

76% self-generated and

24% with renewable energy certificates



Supplier relations

#InThisTogether

CBA has set an ambition to build leadership in sustainable supply chain management, with our Sustainable Procurement Program supporting this journey.



From left to right:
Thiago Marani
Duque, Luiz Cesar
Guireli, Murilo
Stankevix, Leticia
dos Santos Silva,
Roseli Milagres,
Karen Cristina
Araujo Facio and
Thales da Costa
Avelar, Supply Chain
and Procurement
employees

IN 2022

100% of strategic suppliers identified for ESG maturity assessments

Supplier assessment metrics revised to include sustainability criteria

Launched a new Supplier Code of Conduct

DigitALL

#InnovationAtWork

CBA strives to stay future-ready and anticipate new technologies and digital trends to empower our business, talents, and operations. By doing so, we ensure that we can adapt swiftly to the ever-evolving needs of our customers and the marketplace.

In 2022 we launched DigitALL, a transformation program to accelerate our digital maturity and help CBA navigate the future and capture value through digital.

Newly set up PODs: experimentation and problem-solving teams. A total of 18 PODs have been created so far, with more than 200 members.



CBA leadership
summit

Social Value

#ValuablePartnerships

It is CBA employees who make our success a reality. There can be no achievements and no sustainability without involving people, including all those that make up the communities where CBA operates. Dedicating projects to, and caring for, people are essential components of our strategy.

Ecotourism at the Legado das Águas Reserve (SP), Reservas Votorantim

In 2022 we revitalized our **culture pillars**, adding current trends and practices such as digital transformation, innovation, and ESG, and simplifying processes and empowering people.

Recognizing our efforts to take care of our employees and provide a healthy workplace environment, **CBA was again ranked as a top 100 workplace in Brazil by Great Place to Work (GPTW).**



Tools supporting diversity management

- Diversity Committee
- Diversity, Equity & Inclusion Policy
- Diversity, Equity & Inclusion Handbook
- Affinity groups: gender, race, people with disabilities and LGBTQIAP+

DIVERSITY

- Carried out a Diversity Census to determine our population profile and inform better equity and inclusion strategies.
- 17% of CBA's headcount is female, 2.7% more than in 2021. The number of women in leadership positions improved from 17% to 21%.
- CBA has partnered with SENAI (the National Industrial Training Service) in a project that trains women to be metallurgical and other process operators. The goal is to increase diversity and the number of women in the workforce. In 2022, 168 women completed training.
- Adding to the benefits offered to employees, in 2022 we expanded our parenting program, now named *Ser Família* ["Family Life"]. The program now covers adopted children, and same-sex couples are included in benefits, and paternity leave has been extended to 30 days.

NON-LINEAR CAREERS

In line with a major trend in the job market, in 2022 we embraced “non-linear careers”, a movement that seeks to accelerate projects while at the same time contributing to the growth of employees. These projects are generally for a limited period of time to address a specific solution, one example being PODs—multidisciplinary teams who work on specific themes for a defined period of time.

HEALTH AND SAFETY

In occupational safety, CBA created a new tool—the Fatality Prevention Program—that combines existing practices added to a dedicated process that will enhance the Company’s safety standards.

We also enhanced our Health and Safety Management System with the addition of features such as analytics, smart cameras, virtual training, and department-specific approaches.

VOLUNTEERING CHALLENGE

The 2022 edition of the Volunteering Challenge—a healthy competition among employees and contractors of Votorantim portfolio companies—was organized around the theme “Transforming through Civics”.



90

initiatives



679

volunteers



40

charities
benefited



5,458

people benefited



Camila Henrique Pedrosa,
Smelter Operator

SOCIAL TRANSFORMATION

As a leader for sustainability, CBA understands its responsibility and transformational potential in the communities where it is located.



R\$ 8.7
million
invested



59

social initiatives
completed



40,500 students
from 181 schools benefited
by the Partnership for
Education (PVE) program

Total revenue of
R\$ 798,000 across
60 families participating
in the *ReDes* program

R\$ 143,000
reached by four
projects selected
within our *Empreende*
Alumínio program

Lazaro Evangelista,
Electromechanical at
Alux do Brasil (SP),
and his daughter

Environmental protection

#ESGInOurBlood



As of 2022, CBA
has achieved a

26.1% reduction

in cast product emissions from a 2019 baseline,
moving closer to our 40% reduction goal

- With the approval of our emissions reduction targets by the Science Based Targets initiative (SBTi), CBA has become the **first** primary aluminum producer in the world to have SBTi-approved targets supporting the Paris Agreement.
- Joined the **Net Zero Ambition Movement**.
- Awarded a CDP **"A"** rating for Climate Change disclosures, becoming **the first primary aluminum Company to make it onto the A List**.
- CBA became the first Brazilian Company to join the **First Movers Coalition (FMC)**, a global initiative to decarbonize seven hard-to-abate industrial sectors.

BIODIVERSITY

CBA actively engages in forest conservation in the areas where we operate, and we work to minimize environmental impacts from our operations through rehabilitation, reforestation and community awareness initiatives.

REFLORA

Launched in 2022, our *Reflora* program aims to reforest disturbed land in legal reserves or protected areas on smallholder properties. As of year-end 2022, the program has planted more than 21,000 seedlings and reforested more than 12 hectares of land in Zona da Mata (MG).



PROJECTS SUPPORTING GREENHOUSE GAS EMISSIONS REDUCTIONS

1,276 electrolysis cells upgraded at our smelters: supporting 20% lower emissions at this stage of the production process. The project has delivered emissions reductions of 18,722 metric tons of CO₂e so far.

Recycling: recycling increases production output while eliminating the most carbon-intensive stages in the aluminum production process. This makes recycling one of the primary enablers of GHG emissions reductions in aluminum production, and is the reason behind CBA continued efforts to increase recycling rates. In 2022, in addition to our acquisition of Alux do Brasil, which uses 90% scrap in its production process, we invested in a new sidewall furnace at Metalex that will boost production capacity while making the scrap melting process more efficient.



The Legado das Águas Reserve (SP), Reservas Votorantim

In 2024 a new recycling line will also be installed at this site, supporting a 60%–80% increase in recycling content at Metalex.

Biomass boiler at Alumina Refinery: wood–chip biomass sourced from managed eucalyptus forests is now used to power our boilers and replace natural gas and fuel oil. This project was implemented in 2020 and has already delivered significant results.



FIRST CERRADO CARBON CREDITS IN LATIN AMERICA

CBA and Reservas Votorantim issued the very first carbon credits linked to preserved *Cerrado* forests. This is the culmination of extensive work done at the *Legado Verdes do Cerrado* reserve, which has now been integrated into the REDD+ Cerrado Program.

The first issuance generated 316,000 carbon credits referring to the period from 2017 to 2021, and an auction has been organized to invite bids for the first batch.

Legado Verdes do Cerrado, conservation area in Goiás

Billet
produced at
Metalex (SP)

Financial management

#Transparency



R\$ 8.8 billion

in net revenue (+5% vs 2021)

R\$ 1.6 billion

in adjusted EBITDA
(+6% vs 2021)

**Adjusted EBITDA
margin of**

18%

(stable vs 2021)

Leverage of

1.05x

(1.08x em 2021)

100%

of financing transactions
linked to sustainability criteria,
amounting to a total of

R\$ 817 million

raised in 2022

Read the full 2022 CBA Annual Report at
<https://relatorioanual2022.cba.com.br/en>

CBA website: <https://cba.com.br/en/>
ESG Portal: <https://esg.cba.com.br/en/home-en/>
Investor relations: <https://ri.cba.com.br/en/>

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