



Sustainability

Report
2024

Bracell

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President's

Message

GRI 2-22

Sustainability: Making a Difference in Every Detail

At Bracell, sustainability is intrinsic to our business; it is the foundation upon which we build growth and create value. Protecting the environment, contributing to our communities, and delivering consistent results are all part of the way we operate. We believe that growth and sustainability are symbiotic. This belief informs our decisions, guides our strategy, and defines our path of sustainable, profitable growth.

Our results in 2024 show that this approach is not only feasible—it's a winning formula. We expanded our eucalyptus plantation area, operating nurseries at full capacity while making significant gains in productivity. We further boosted dissolving pulp production for export markets, improving both our industrial efficiency and global competitiveness.

We also took a major strategic step with the start of operation of our tissue mill in Lençóis Paulista (SP). This new business is launching in the market with

one of the greenest production facilities in the country—fully integrated with our renewable forestry assets—while also expanding our offering of end-consumer products. These achievements came despite a challenging market environment that demanded resilience, operational discipline, and even stronger integration across operations.

Bracell's results in 2024 were underpinned by a robust organizational culture rooted in our T.O.P.I.C.C. values ([read more on page 13](#)) and our focus on Quality, Productivity, and Cost (QPC). Together, these elements drive business focus, ethical conduct, and continuous improvement. Employee safety remains central to our operations, alongside training and development to equip our teams and the organization for the challenges ahead. Together, these principles foster a robust

We believe that **growth and sustainability** are symbiotic.

culture built for transformation and positive impact.

Also in 2024, we completed the first comprehensive assessment of progress on Bracell 2030, a long-term sustainability roadmap structured around four strategic pillars: Climate Action, Sustainable Landscapes and Biodiversity, Driving Sustainable Growth, and Empowering Lives. Our progress in the year puts us on track to meet the roadmap’s 14 targets and commitments, aligned with the United Nations Sustainable Development Goals (SDGs).

A standout feature of Bracell’s sustainability strategy is our One-for-One Commitment, whereby we have pledged to conserve 1 hectare of native vegetation for every 1 hectare of eucalyptus planted. This commitment supports the protection of native areas managed by Bracell as well as public conservation sites in the states where we operate. We ended the year with 186,000 hectares of public conservation sites under protection, reaching 97% of our target. We also signed a 10-year agreement with the government of Mato Grosso do Sul to conserve four

state conservation sites, further extending the geographic impact of our biodiversity protection initiatives.

On the social front, we surpassed the mark of 150,000 people positively impacted by our community programs in the areas where we operate. Another highlight was the launch of the Bracell Social Center in Lençóis Paulista (SP), a permanent space for community engagement and participatory development. And we advanced our diversity and inclusion agenda—surpassing our target for women in leadership in the year, reaching 29.4% representation.

Bracell Foundation continued to carry out initiatives and projects that leverage the transformative power of education from early childhood, enabling each individual to develop their full potential and live a better life.

Bracell’s accomplishments in the year reflect the dedication and engagement of our entire team—to whom I am sincerely grateful. This report provides a transparent account of our key results from 2024 and how we are building a



By aligning performance with purpose, **we’re building a journey** that drives transformation.

strong, inclusive, and sustainable future, with responsibility and a long-term vision.

Making a difference in every detail remains the imperative that drives us and sets us apart. By aligning performance with purpose, we’re building a journey that drives transformation, inspires trust, and creates a lasting legacy for generations to come. I would

like to express special thanks to each Bracell team member—your commitment has made every achievement in this report possible.

I hope readers find this report informative and inspiring.

Praveen Singhavi
President



About Bracell



Who We Are

GRI 2-1, 2-2, 2-6

About Bracell

Bracell is the world’s leading producer of **dissolving pulp** and one of the foremost producers of **eucalyptus pulp**. We operate mills in the Camaçari Industrial Park (BA), the Lençóis Paulista Industrial Park (SP), and in the cities of Feira de Santana (BA), São Gonçalo (BA), and Pombos (PE). We also have forestry operations—ranging from eucalyptus planting to harvesting—in Bahia, São Paulo, and Sergipe.

We produce **kraft, rayon-grade and specialty-grade pulp**, supplying a range of global markets. We also operate in the **tissue paper** market through **Bracell Papéis**, a facility that produces toilet paper, paper towels, napkins and diapers.

Bracell is a member of Royal Golden Eagle (RGE), a global group of companies in the bio-based resources and energy sectors, serving more than

100 markets worldwide. RGE’s business spans the entire value chain: from the sustainable cultivation of renewable resources to the production of high value-added products for the global marketplace.

As a global leader in sustainable natural fibers, edible oils, green packaging and clean energy solutions, RGE builds lasting businesses by integrating sustainability as an enabler of growth, while advancing a nature-positive, greener future.

Our commitment to sustainable development, environmental conservation, and community empowerment is anchored in our guiding 5Cs philosophy: everything we do must be good for the Community, Country, Climate and Customers, and only then will it be good for the Company.

LEARN MORE

See our geographies on [page 19](#).





Purpose

Improving lives by developing resources sustainably.



Vision

To be one of the world’s largest, best-managed, and most sustainable pulp-based companies—creating shared value for our Community, Country, Climate, Customers and the Company.



Core values

At Bracell, our operations are guided by RGE’s core values, expressed through the acronym **T.O.P.I.C.C**. These values guide our decisions and behaviors and are central to fulfilling our mission and achieving our long-term vision with environmental and social responsibility, integrity, and operational excellence.

T.

We are aligned by a collective purpose and our Complementary **Teams** work together

O.

We take **Ownership** to achieve **outstanding results** and seek value at all times

P.

We develop our **People** to **grow with us**

I.

We act with **Integrity at all times**

C.

We **understand** our **Customers** and **deliver** best value to them

C.

We act with zero complacency and always strive for **Continuous improvement**



Products

GRI 2-6

What We Produce

Our products are made from eucalyptus pulp: a natural, renewable, and biodegradable polymer.

The pulpwood we process is sourced from certified eucalyptus plantations that meet rigorous international standards for quality and sustainability. We manage our own eucalyptus plantations and also source pulpwood from controlled sources.

We make three types of pulp: **kraft bleached eucalyptus pulp**, **rayon-grade dissolving pulp** and

specialty-grade pulp, which are used in the manufacture of a range of products. Bracell also operates in the consumer-goods sector, with a strong market share of domestic toilet paper, paper towel, napkin and diaper production via Bracell Papéis.

learn more

Learn more about our certifications on [page 41](#).

Certified Pulp



Supporting our commitment to innovation and sustainability, all our product lines are produced from 100% virgin and Programme for the Endorsement of Forest Certification (PEFC)-certified pulp, assuring traceability and environmental and social responsibility across the supply chain. Combining efficiency, technology and responsible use of natural resources, we are helping to build a more sustainable future for customers, consumers and the environment.



Pulp Applications

KRAFT BLEACHED EUCALYPTUS PULP

- Printing and writing papers
- Tissue paper (toilet paper, paper towels and napkins)
- Packaging paper
- Specialty papers such as filters, self-adhesive papers, adhesive tape and wallpaper

RAYON-GRADE DISSOLVING PULP

- Viscose and lyocell fibers used in fabrics and nonwovens
- Viscose filaments used in delicate fabrics such as women's underwear
- Wet wipes
- Cosmetic masks
- Cellophane packaging films
- Viscose pads for household and industrial cleaning applications

SPECIALTY-GRADE PULP

- Cellulose acetate flakes (cigarette filters, textile filament yarns and fibers for nonwovens)
- Pharmaceutical and food products (produced from microcrystalline cellulose)
- Printing inks, specialty inks, enamels and cosmetics (produced from nitrocellulose)
- Industrial filament used to produce high-performance tire reinforcement
- Cellulose ethers and sausage casings (specialty applications)

Tissue and Personal Care



Bracell also operates in the tissue paper sector with high-quality solutions for consumer-goods, professional, and conversion markets. With **advanced technology, efficient processes and a focus on sustainability**, we deliver **soft, high-strength, high-performance products**, while at the same time optimizing natural-resource use and reducing environmental impact throughout the supply chain.

CONSUMER RANGE

The **Bracell Consumer Goods** range offers a wide variety of essential everyday products, including **toilet paper, paper towels, napkins and diapers**, providing consumers with quality and comfort.



PROFESSIONAL RANGE

Bracell's Professional range offers tissue paper solutions to cater for the corporate, healthcare, and institutional markets. With products in **high-meterage rolls and interleaved formats**, the range includes **paper towels and toilet paper**, combining **high performance, strength and softness** for more efficient consumption.

CONVERSION RANGE (JUMBO ROLLS)

Jumbo rolls are the core of Bracell's tissue paper production operations, made to **high-quality standards and with advanced technology**. Designed for the converting market, jumbo rolls are used as a feedstock for products such as **toilet paper, paper towels, napkins, and tissues**. Bracell jumbo rolls ensure consistent performance and operational efficiency for manufacturers converting tissue paper into finished consumer goods.



Our

Operations

GRI 2-6

Our Geographies

Bracell operates pulp and paper mills in the states of **São Paulo, Bahia and Pernambuco**. We also manage integrated forestry operations—from eucalyptus planting to harvesting—in the states of **São Paulo, Bahia and Sergipe**.

Bracell uses cutting-edge technology that enhances operational efficiency and ensures high product quality. As part of our commitment to innovation and sustainability, we follow best practices aligned with current legislation, forestry certification standards, and regulatory requirements—along with strict internal protocols for social and environmental management.



Mill Operations

We have two pulp mills and four tissue paper mills, operated by Bracell Papéis.

Our industrial capabilities allow us to produce annually **up to 3 million metric tons of kraft pulp** or **2 million metric tons of dissolving pulp**. To that end,

we have production lines that optimize and direct production according to market demand—known, for that reason, as flexible. In the tissue paper segment, our **mills have the capacity to produce 300,000 metric tons per year**, catering for both the conversion and finished products market.

Our two flexible lines at the Lençóis Paulista site, in São Paulo, responsible for the production of 87% of pulp volume in 2024, were developed according to the **Best Available Techniques (BAT) Reference Document for the Production of Pulp, Paper and Board** (find out about the [sustainable production advantages](#) of our mill), using cutting-edge technology and high environmental standards.

Through our sustainability guidelines, as formalized in our [corporate policies](#), we strive to ensure highly efficient processes, seeking the best possible performance in **strategic environmental indicators for our business**. Examples are: water consumption in pulp production, landfilling of waste from the industrial process, and tCO₂e emissions per metric ton of pulp produced. This ensures our operations are focused on creating positive environmental value.

2 pulp mills

- Lençóis Paulista (São Paulo)
- Camaçari (Bahia)

4 tissue paper mills

- Feira de Santana (Bahia)
- São Gonçalo dos Campos (Bahia)
- Pombos (Pernambuco)
- Lençóis Paulista (São Paulo)

TOTAL PRODUCTION CAPACITY

3 million metric tons

of kraft pulp per year; or

2 million metric tons

of dissolving pulp per year



LEARN MORE

Learn more in Driving Sustainable Growth and Climate Action, on pages 140 and 186.

Our Mills: Technology, Efficiency and Sustainability

LEARN MORE

Find out about the key advantages of our tissue mill on page 24.

Pulp Production:

Industrial Capacity and Efficiency



Bracell has **one of the largest and most modern pulp operations in the world.**

87% of the pulp produced in 2024 came from the two flexible lines at the Lençóis Paulista site, in São Paulo.

These lines follow the **Best Available Techniques (BAT) Reference Document for the Production of Pulp, Paper and Board**, the international benchmark for efficiency and sustainability in the sector.

Production Sustainability:

39.72% of the energy requirement comes from renewable sources, reducing dependence on fossil fuels.

197.9 mn GJ of electricity generated, including 2,718,408.92 GJ from eucalyptus biomass.

19.2 m³/adt of water withdrawals per metric ton of pulp produced, one of the lowest rates in the sector.

The **industry's lowest air emissions**, with no detectable odor - **1.7 mn tCO₂e** in 2024.

27.1 kg/adt of industrial waste were sent to landfills, outperforming our target of 43.7 kg/adt set for the period.



Tissue Paper Production:

As part of RGE's commitment to investing in Brazil, we founded **Bracell Papéis** following the takeover of OL Papéis, in 2023, a company that operated for over **15 years** in Brazil's Northeast region, specializing in the manufacture of diapers and tissue products (toilet paper, paper towels and napkins).

Our new Bracell Papéis facility in Lençóis Paulista (SP) has been operational since 2024, focused on consumer goods.

We operate mills in the Northeast and Southeast, as well as **commercial operations** in these regions and in the South and Midwest of Brazil. **GRI 2-6**

We are the **second largest manufacturer** of tissue paper and diapers in the Northeast, and we now hold a significant new market share in the Southeast, South and Midwest of Brazil.

At our mills, we invest in technology to **increase sustainability advantages**. At our Feira de Santana site in Bahia, a new biomass boiler generates **clean energy**, with no greenhouse gas emissions.

Explore what sets our new tissue facility apart

Fully operational since April 2024, our Lençóis Paulista (SP) site was designed with **technologies that increase efficiency and reduce environmental impact** at all stages of the production process.

Energy-efficient automated vertical warehouse

The products manufactured on the site are stored in an **automated vertical warehouse**, which uses **robot-operated elevators** to optimize goods handling. The result is:

- **Greater energy efficiency:** Automation reduces the need for lighting and air-conditioning, resulting in **energy savings**.
- **Better logistical control:** The system enables optimized storage and rapid handling of goods, thereby reducing waste and increasing productivity.
- **Safety and efficiency:** Automation minimizes human interference, making the process **safer, more precise and more sustainable**.



Truck-free inbound pulp logistics

The **Bracell Papéis** mill in Lençóis Paulista (SP) is co-located on the same site as Bracell's flexible lines, where the **kraft pulp used in tissue manufacture is produced**. This logistical integration enables the **pulp to be transported by pipeline, eliminating the need for drying and transportation by road**, and thereby reducing GHG emissions and optimizing processes.

Solar array

Bracell Papéis' Lençóis Paulista (SP) site features a **50,000 m² solar array generating 7.21 MW of renewable, fossil fuel-free energy**. The energy generated accounts for **20%** of electricity consumption at the site, where we produce **consumer tissue paper, professional line products, and jumbo rolls**.

Water efficiency

At this new facility, **water** used in the tissue manufacturing process is **recovered from the pulp, then purified and reused**. This process **minimizes freshwater withdrawals** and significantly improves overall water efficiency.

Jumbo roll production

The new mill has the capacity to produce **jumbo rolls**, ensuring flexibility and efficiency for the conversion and finished-product markets. Our mill has:

- **Four tissue-paper machines** that produce **jumbo rolls with a width of over two meters**
- **Three rewinders** that transform the jumbo rolls into different formats to cater to market demand
- Besides distributing rolls for conversion, the mill also **processes jumbo rolls into finished products, like toilet paper and paper towels**.

Planted Eucalyptus Forests

Our pulpwood is sourced from eucalyptus **plantations** managed in accordance with standards issued by the Brazilian Forestry Certification Program (CERFLOR/PEFC) to ensure our practices are environmentally sound, economically viable, and socially beneficial. We also source **controlled pulpwood** from designated areas in the Brazilian states of Minas Gerais, Goiás, Paraná, and Mato Grosso do Sul.

Our sustainable forestry model aims to minimize environmental impact, using biodiversity protection and soil and water conservation practices.

These management practices are formalized in our Sustainability Policy, which can be viewed on the [Bracell website](#).

Find out about our key guidelines in this area:

Our soil management practices are **designed to preserve** physical, chemical, and biological soil properties through minimum tillage techniques.

PLANTING IN ALREADY DISTURBED LAND ONLY

We do not convert areas of native forest into eucalyptus plantations. Our forestry operations are established exclusively in previously disturbed land—typically degraded or low-yield pastures, or land formerly used for other agricultural activities. Bracell has no operations in protected areas or Legal Reserves or on peatlands.

FOREST MOSAICS

We use a mosaic planting system, interspersing eucalyptus plantations with native forest areas across the Atlantic Forest, *Cerrado*, and *Caatinga* biomes. This model supports biodiversity conservation, enhances ecosystem services, and helps preserve natural landscapes. Over 35% of land owned by our forestry operations is used for preservation and conservation of native vegetation.

CARBON CAPTURE

Bracell's planted eucalyptus forests and **native forest** areas play a crucial role in **capturing CO₂ from the atmosphere**, absorbing and storing carbon throughout the trees' growth cycle. This natural process helps **partially offset our greenhouse gas (GHG) emissions**.

NURSERIES

Our saplings are produced in our own nurseries, developed by our Research & Development team to a high quality standard, with climate resilience and suited to the ecosystem of the regions where our forestry operations are located.

INTEGRATED PEST AND DISEASE MANAGEMENT

We employ Integrated Pest and Disease Management (IPDM) methods, leveraging genetic resistance and natural predators. Pesticides are used on a need-only basis.

RESTORING DEGRADED LAND

In Bahia, we run a Degraded Land Restoration Program. The methodology we use was approved by the state environmental regulator (INEMA).

GEOREFERENCING

We use official data from the Rural Environmental Register (CAR) to georeference all the eucalyptus plantation we manage. This geospatial data is integrated into our Geographic Information System (GIS) and can be intersected with data on protected areas, areas of high biodiversity value, buffer zones, environmental reserves, historical and archaeological sites, settlements, indigenous territories, and quilombola communities. This process informs our operational procedures on each property, depending on the constraints and conditions set in management plans.

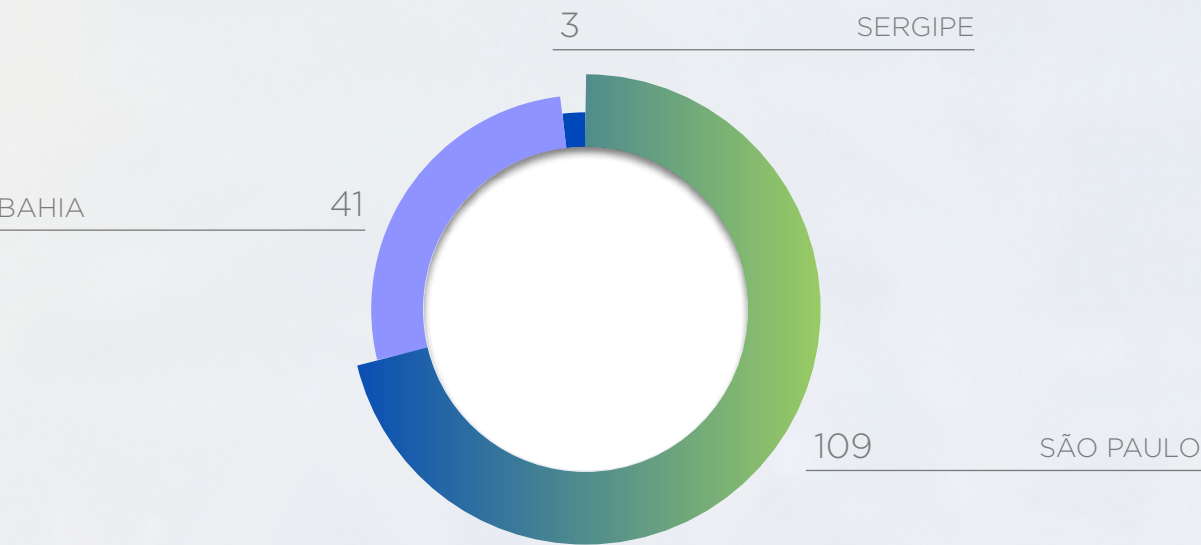
SOIL CONSERVATION

Our soil management practices are designed to preserve physical, chemical, and biological soil properties through **minimum tillage** techniques. We keep forestry waste such as bark, branches and leaves on the soil after harvesting, increasing organic matter content. As a result, we reduce the use of chemical fertilizers and maintain soil moisture, which provides natural protection against erosion and rain leaching.

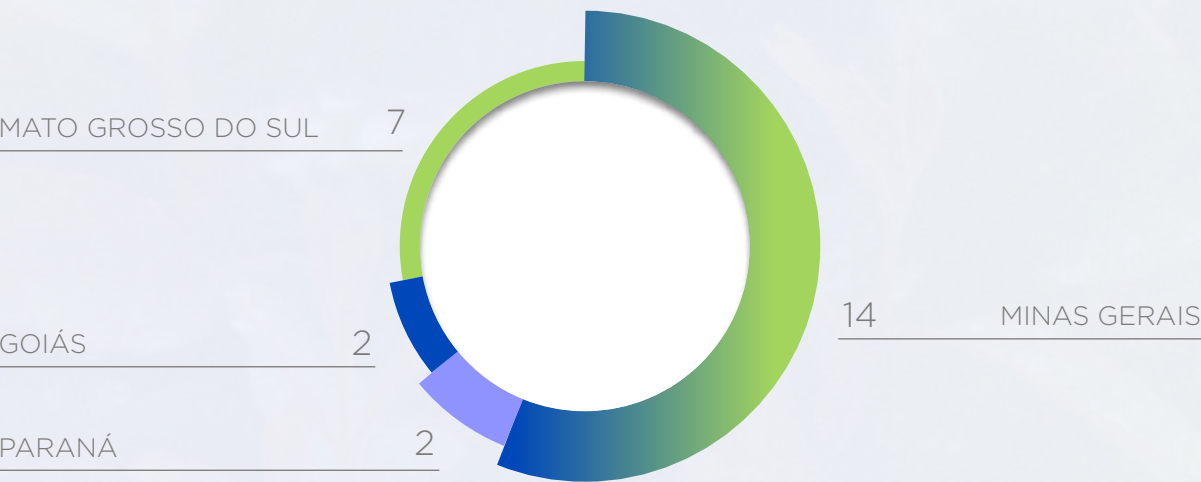
learn more

Read more about our carbon balance in the chapter Climate Action on page 194.

Vertically integrated forestry operations -
from cultivation to harvest



Pulpwood sourcing regions



Note: forestry operations are considered to be those areas where pulpwood was harvested during 2024. In São Paulo, Bahia, and Sergipe, Bracell owns forestry operations where we directly manage the entire cycle—from eucalyptus planting to harvesting. In 2024, we also sourced pulpwood from third parties in the states of Goiás, Minas Gerais, Mato Grosso do Sul, and Paraná. In these sourcing regions, Bracell handles the harvesting and haulage of the purchased pulpwood directly.

Cultive
Eucalipto



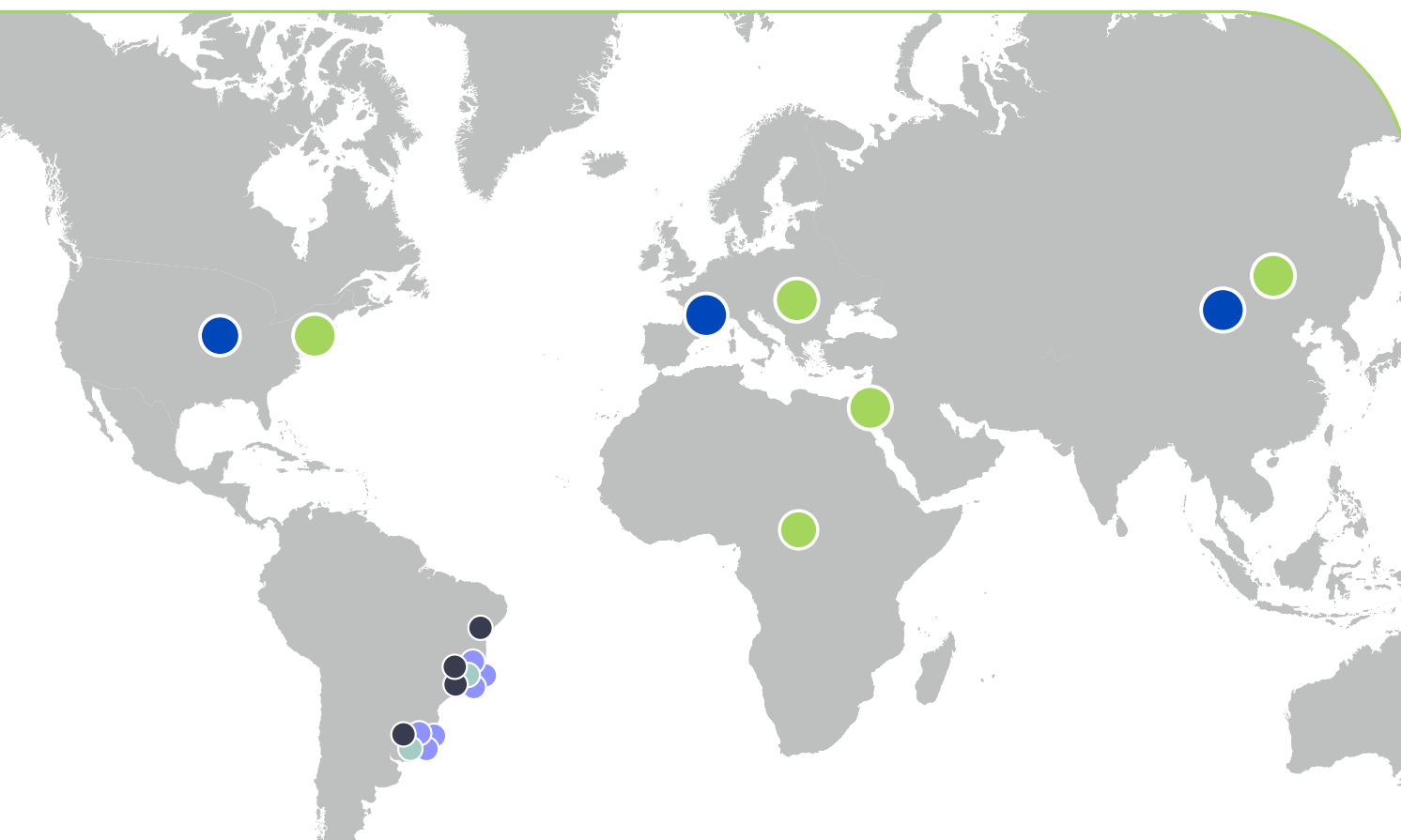
As an incentive for sustainable forestry operations, we have introduced a program, called *Cultive Eucalipto*, that provides technical support to partner growers.



LEARN MORE

See more at
<https://cultiveeucalipto.com.br/>

Our Operations



Specialty pulp distribution centers

- United States
- Europe
- China

Commercial hubs

- Asia
- EMEA (Europe, Middle East and Africa)
- United States

Pulp mills

- Lençóis Paulista (SP)
- Camaçari (BA)

Tissue paper mills

- Feira de Santana (BA)
- São Gonçalo dos Campos (BA)
- Pombos (PE)
- Lençóis Paulista (SP)

Offices GRI 2-1

Bracell

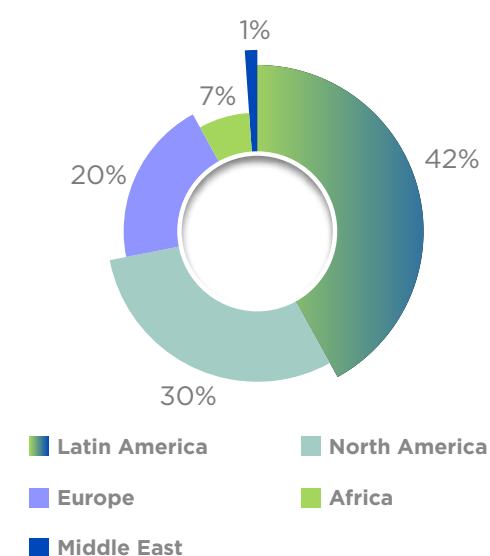
- São Paulo (SP)
- Lençóis Paulista (SP)
- Camaçari (BA)
- Alagoinhas (BA)

Bracell Papéis

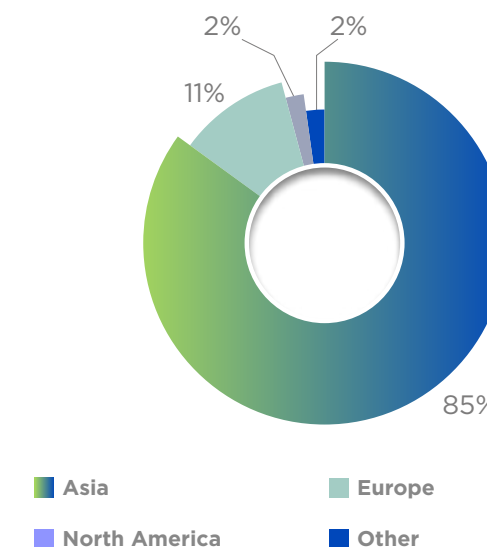
- Lençóis Paulista (SP)
- Feira de Santana (BA)

Main markets served in 2024

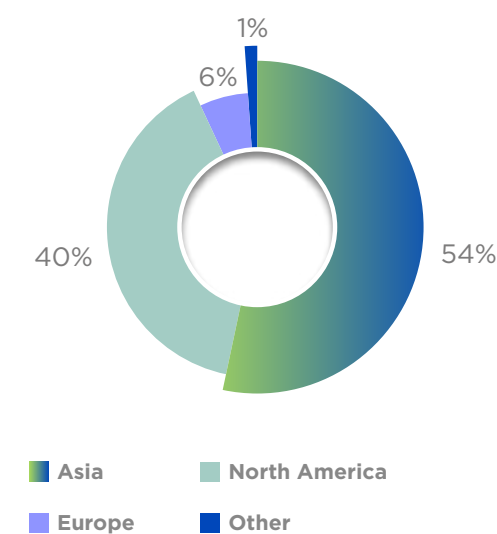
Paper – São Paulo



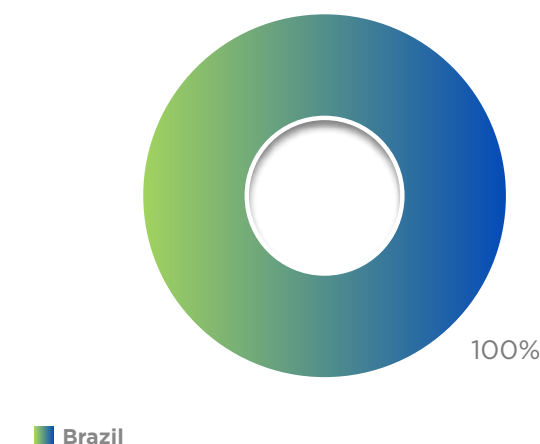
Pulp – São Paulo



Pulp - Bahia



Paper – Bahia and Pernambuco



Logistics and Distribution

Bracell's logistics operations are structured around a combination of modes of transportation designed to increase efficiency in the distribution of our products to customers. This model ensures timely, safe delivery, catering primarily for manufacturers of textile products, paper, packaging and tissue-paper products.

BAHIA

- 1
- Third-party truck transport to the Port of Salvador (Bahia):**
dissolving pulp and specialty pulp are shipped from the Camaçari Industrial Hub (BA) by truck to the Port of Salvador (BA).
- 2
- Container and breakbulk shipping to overseas markets:**
from the port of Salvador, the pulp is shipped overseas, 97% of the volume by container and 3% by breakbulk shipping.

SÃO PAULO

- 1
- Transportation of pulp by truck:**
98% of pulp volume is transported from the Lençóis Paulista (SP) Industrial District to the road and rail terminal at Pederneiras (SP), using our own trucks.

Corporate fleet: in 2024, we achieved **record fuel efficiency within our corporate fleet**, at an average of 2.76 km per liter of diesel, up from 2.57 km/l in 2023, a 7% improvement.
- 2
- Rail transport to the Port of Santos:**
from the road and rail terminal, the pulp continues its journey by train to the port of Santos (SP). The railcars are Bracell-owned, while the locomotives are owned by the railway concession operator.
- 3
- Breakbulk shipping for the international market:**
From the port of Santos (SP), 90% of the pulp is exported in breakbulk ships. We own a dedicated terminal for port-to-port pulp shipping in breakbulk vessels. Container transportation is handled in outsourced terminals.
- 4
- Container haulage for the domestic market:**
2% of the pulp produced at the Lençóis Paulista site is for the domestic market, and is transported in containers by road to our customers. Containers are also used to transport 100% of our tissue products. From the Lençóis Paulista site to the Port of Santos, an outsourced truck fleet is used.



In Bahia,
97%
of pulp exports are shipped in containers

In São Paulo,
90%
of pulp exports are shipped via breakbulk vessels

Logistics Overview: *Resilience and Efficiency*

2024 presented significant challenges for global logistics, with impacts like restrictions on international maritime transport, shipping strikes in the USA and port congestion in Brazil.

Against this backdrop, Bracell shifted more of its operations to international shippers, **ensuring** timely delivery **to all markets**. We **also reinforced** warehouse maintenance in Europe, USA and Asia, **guaranteeing** minimum strategic stocks to **cater for customers** and **strengthen long-term contracts**.

Automation and Innovation in the Port of Santos

In 2024, we completed investments in automation of the Bracell terminal in the Port of Santos, **improving cargo handling efficiency**. Today, two gantry cranes and four overhead cranes **handle incoming pulp transported by rail from the road and rail terminal in Pederneiras (SP)**.

The automated system allows for fast, precise loading of breakbulk vessels and supports remote operation. The new system reflects our commitment to innovation, sustainable logistics, and lowering transportation-related emissions.

Expansion of Logistics Infrastructure in Bahia

In Bahia, we opened our new warehouse in 2024, which enabled improved planning of shipments for international customers. This facility has the capacity to store up to three months of pulp sales, **thereby ensuring** greater flexibility and security to cater for global demand.

Logistical Control and Export Monitoring

Exports from the port of Salvador (BA), **done primarily by** container, **give us** total control over deliveries of specialty pulp **produced in the state. We monitor consignments** in real time, **from the moment they leave the mill to arrival at their final destination, guaranteeing** security and predictability for our customers.

In Santos, we own a **dedicated terminal for port-to-port pulp shipping** in breakbulk vessels. Container transportation is handled in outsourced terminals.



Forestry
Research &

Development

Efficient and Sustainable Solutions

We work on three major fronts to ensure a sustainable supply of pulpwood in the medium and long term, and ultimately the sustainability of the business and excellence of our products.

Classical genetic improvement

We do not use genetically modified organisms (GMOs) in our operations and develop our eucalyptus clones through conventional genetic improvement. This process involves the generation, evaluation and selection of clones improved in successive cycles.

The focus of genetic improvement is also on developing techniques aimed at improving cloning efficiency, guaranteeing high-quality pulpwood that is more sustainable in the long term.

Extension service on forestry operation and technology transfer

We provide specialized technical assistance and promote technology transfer for our forestry operations, ensuring the implementation of best practices and continuous process improvement.

Forestry and forest management

Bracell seeks to continually improve its monitoring and climate-zoning processes, as well as adopting soil conservation, preparation and fertilization practices. Sustainable control of pests, diseases and weeds is also a priority, ensuring healthy, productive forests in the long term.

learn more

See more on [page 189](#).

We invest in forestry R&D to **enhance efficiency and sustainability** in pulpwood production.

Forestry Research &

Development

Modern and Innovative Mills

We conduct research to optimize our industrial processes, across four main areas:

Pulpwood development

- Evaluate pulpwood quality at source plantations and potential impacts on the production process and product quality.
- **Support forestry research and development**, with a focus on improving pulpwood quality and developing new clones and forestry practices that promote long-term sustainability.

Process development

- **Continually improve production processes** to enhance competitiveness through innovative solutions focused on quality, productivity and cost-cutting.
- Identify and implement the **best available technologies for our laboratories and mills**, aligning them with our operational and environmental requirements.

Product development

- Identify new product development opportunities to cater for customer demand across different segments and **drive innovation** in our production lines.

Biorefineries and environment

- Develop biorefinery projects to optimize the use and development of co-products from the production process, advancing the **circular economy**.
- Research and implement efficient environmental solutions, with a focus on preserving natural resources and **increasing the sustainability of production processes**.

We invest in deploying the industry's **most advanced and efficient technologies** in our facilities.



Certifications

LEARN MORE

Click [here](#) to view all our certifications.

Certifications

ISO 9001:2015 and ISO 14001:2015

All our mill operations are certified to ISO 9001:2015 and ISO 14001:2015 for compliance with quality and environmental management system requirements.

PEFC

Our forestry operations are certified by the Brazilian Forestry Certification Program (PEFC), an internationally recognized certification scheme that assures pulpwood is handled in an environmentally friendly, economically viable and socially beneficial way.

ISEGA and IQTC

Bracell’s mills in Bahia and São Paulo have ISEGA certification, which means that the pulp produced there fulfills all requirements for contact with foodstuffs. This certifies compliance with the quality and safety standards of the German Federal Institute of Risk Assessment and the United States Food and Drug Administration (FDA).

Our mill in Lençóis Paulista also holds certification from the Guangzhou Customs District Technology Center (IQTC), attesting to compliance with Chinese regulation GB 4806-8, which also certifies that the pulp may come into contact with food.

Halal and Kosher

100% of Bracell’s operations in Bahia have Halal certification, which assures that the production process is compliant with Islamic ethical, moral and legal standards. We also hold Kosher certification, which attests to production process quality and safety in line with Jewish food standards.

Customs-Trade Partnership Against Terrorism (C-TPAT)

Bracell’s operations in Bahia have anti-terrorism procedures in the company’s logistics department that have been approved by a U.S. auditing firm. This is a requirement of the Customs-Trade Partnership Against Terrorism (C-TPAT), a voluntary supply-chain security program led by U.S. Customs and Border Protection (CBP), addressing sabotage risks such as container contamination.

Nordic Swan and EU Ecolabel

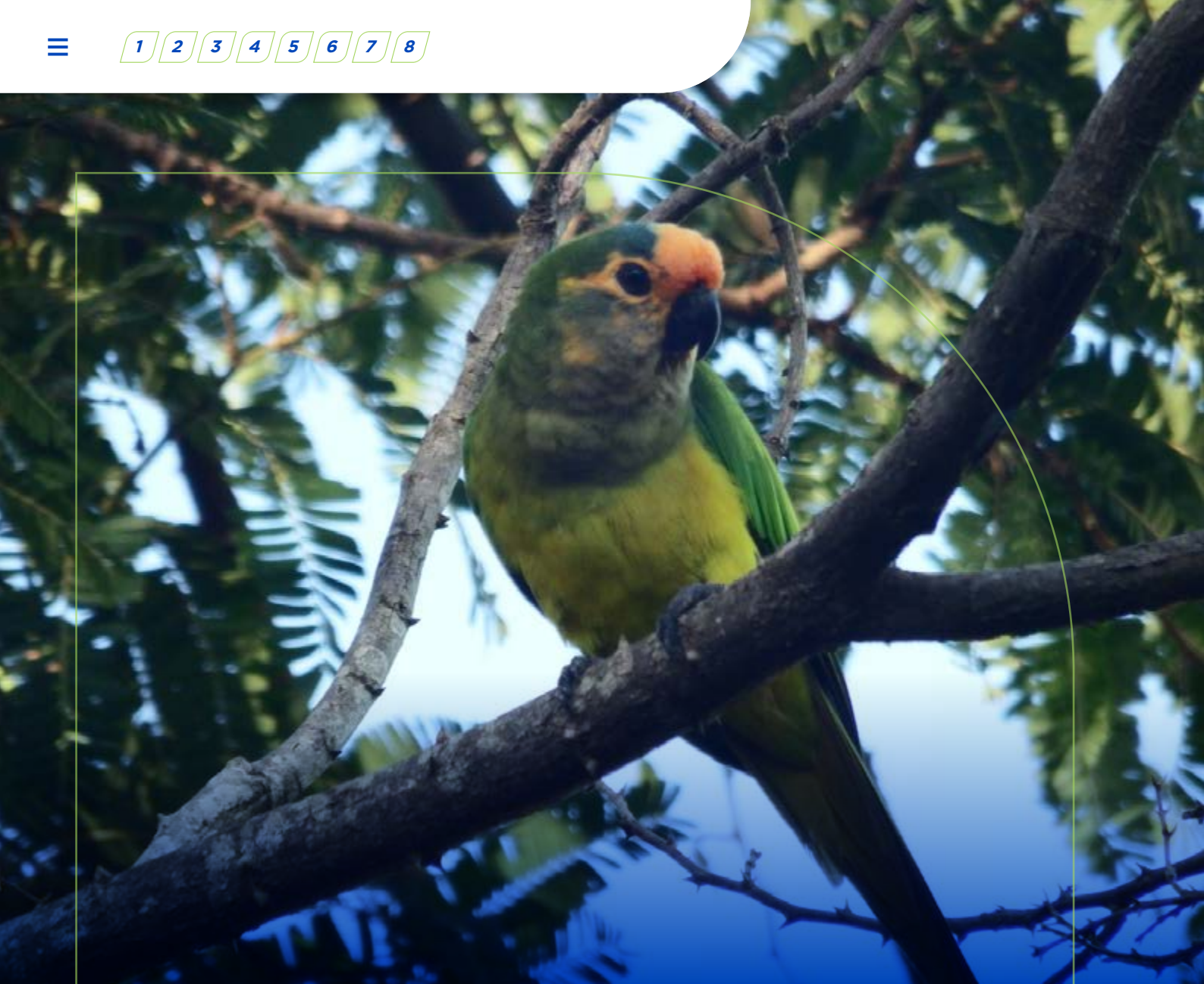
Nordic Swan and EU Ecolabel certification is awarded to products that meet rigorous EU environmental performance standards. These recognitions certify that our products were developed with a focus on sustainability across all stages of the product life cycle, and with minimum environmental impact. Bracell was awarded these certifications for our kraft eucalyptus pulp production in São Paulo, reaffirming our commitment to responsible practices and reducing the environmental impact of our operations.

São Paulo Operations

ISO 9001:2015, ISO 14001:2015, PEFC and ISEGA.

Bahia Operations

ISO 9001:2015, ISO 14001:2015, PEFC and ISEGA.



ESG Disclosures

LEARN MORE

Learn more in our [Disclosures Hub](#).



GHG Protocol Gold Badge

The GHG Protocol Gold Badge is awarded to companies that demonstrate high levels of accuracy and transparency in their Greenhouse Gas Inventory (GHG) submissions to the Brazilian GHG Protocol Program's Public Emissions Registry (PBGHG). This badge recognizes our efforts to make detailed public disclosures about our GHG emissions management, reinforcing Bracell's commitment to transparency and our contribution to mitigating climate change. As a member of the PBGHG, we seek to promote transparency and voluntary collaboration between organizations to reduce greenhouse gas emissions.



Reporting Matters

Awarded by the Brazilian Business Council for Sustainable Development (CEBDS), the Reporting Matters badge recognizes best practices in corporate sustainability reporting. In 2024, we scored 88%, a significant improvement of 23 percentage points compared to 2023. We achieved maximum scores for the criteria of materiality, stakeholder engagement, external verification, strategy, alignment, performance, partnership and collaboration. This evolution reflects the continual improvements we are making in the areas of Principles, Experience and Content, in particular our commitment to transparency, to continuous improvement and to effective communication of our sustainability initiatives and results.

Strategy and Performance

Making a Difference in Every Detail

In 2024, we unveiled our new strategic positioning: **Making a difference in every detail.** This positioning reinforces our commitment to sustainability, innovation, excellence in product quality, talent development, and creating shared value for local communities.

Bracell's business strategy is centered on sustainable growth—with a particular focus on operational efficiency, market expansion, and embedding sustainability at every stage of our operations.

Business Expansion and Innovation

In 2024, Bracell made important progress across production, forestry innovation, and expansion into the consumer products segment, advancing our strategy of sustainable growth and portfolio diversification.

Forestry R&D and Innovation

One of our R&D highlights from the year was the commercial launch of clonal composites genetically developed for the specific environmental conditions of our operations in São Paulo and Bahia. These new varieties improved climate resilience and pest/disease control—boosting both yields and the sustainability of our plantations.

Monitoring Water and Carbon Flux in Our Eucalyptus Forests

We also expanded our environmental monitoring efforts with the installation of flux towers in native and planted forest areas operated by Bracell. These towers collect data on trees' carbon (emissions and removals) and water flux and soil temperature, providing useful insights to guide our climate strategy.

learn more

Read more on
[page 190.](#)

Consumer Market Expansion with Bracell Papéis

We continued our expansion in the tissue market in 2024 with the start of operations at Bracell Papéis' Lençóis Paulista site. During the year, we launched the Familiar and Supra toilet paper brands on the market, as well as Absoluto paper towels. These strategic moves solidified our leadership in the Northeast and strengthened our presence in the Southeast—placing Bracell among the top five consumer tissue producers in Brazil.

Sustainability at the Heart of Bracell's Strategy

Sustainability is a fundamental component of Bracell's strategy, aligned with the UN's Sustainable Development Goals (SDGs) as part of the 2030 Agenda. In 2024, we made progress in implementing Bracell 2030, our long-term sustainability strategic plan, with 14 targets and commitments related to climate, nature, people and communities. This plan aims to contribute actively to global challenges as we work to achieve our specific targets relating to emissions, biodiversity, social inclusion and corporate social responsibility.



Sustainability Highlights in 2024

Sustainable Landscapes and Biodiversity

In our environmental preservation and biodiversity protection strategy, a highlight from the year was the certification of a new area for the reintroduction of wild animals into the *caatinga* biome. We made progress on our One-for-One Commitment, whereby we preserve one hectare of native forest for every hectare planted with eucalyptus. In 2024, we forged new partnerships with public agencies in São Paulo, Bahia and Mato Grosso do Sul for the preservation of protected sites (see more on [page 170](#)).

Management posts, representing **29.4%** of the total. We also made progress on drawing up a roadmap with targets for supporting women-led businesses and initiatives geared to income generation and education in our communities (read more about the Bracell 2030 targets on [page 88](#)).

Creating Social Value

In 2024, we expanded our workforce and closed the year with **10,235** employees (8,547 at Bracell and 1,673 at Bracell Papéis) and **17,350** contractors working directly in pulp and paper operations. Through Bracell Social, we invested R\$ 8.4 million in education, income-generation, local culture promotion and civics programs, directly benefiting 152,100 people. These investments reinforce our commitment to generating social value, promoting the inclusion and well-being of the communities in which we operate.

This report shows how Bracell embeds sustainability into its operation strategically, aligning with the SDGs of the UN's 2030 Agenda, while at the same time generating long-term value for the company, people and the planet. Read more about our Bracell 2030 targets and progress on [page 89](#).

Driving Sustainable Growth

In our industrial operations, we reduced water consumption per metric ton of pulp produced, reaching **19.2 m³/adt**. Meanwhile, we achieved a significant reduction in waste disposal from the industrial process to landfill, with a final result of **27.1 kg/adt**.

Empowerment and Inclusion

We increased women's participation in leadership roles in our pulp operations, with **117** holding Coordination, Management and Senior

2024 Highlights

Environmental



7.2% reduction

in water consumption per metric ton of product
(20.69 m³/adt in 2023 and 19.20 m³/adt in 2024)

186,000

ha of native vegetation

in public conservation sites

67.09%

reduction

in landfilled waste per metric ton of product
(260,147 t in 2023 and 85,612 t in 2024)

97%

conservation

achieved as part of our One-for-One Commitment

96.2%

lime and caustic soda recovery

rate in pulp production

In 2024, our planted forests removed

2,745,849 tCO₂e

and the native forests we preserve removed

1,373,161 tCO₂e, totaling

4,119,010 tCO₂e in gross removals



Social

70.54%

increase

in income earned by families participating in Bracell-supported income-generation projects

90%

target positive perceptions

concerning respect and equity in the workplace

30%

target increase

in proficiency in Portuguese and Mathematics in supported schools

58.8%

of high-impact

business projects we support are women-led

29.4% women

in leadership positions in our pulp operations



Governance

The **Sustainability Steering Committee**

tracks progress on our sustainability strategy and sustainability risk management processes

Our risk management process covers social, environmental, and governance matters

We updated our materiality matrix, broadening our approach to risk and impact management

Value Chain

Learn more in our [Disclosures Hub](#), under GRI Disclosure 2, in the “About Bracell” section.



Climate

We removed 4.1 million metric tons of CO2e through our planted eucalyptus forests and preserved native vegetation.



Company

We reached a record-high in planted area and started operation of a new Bracell Papéis facility.



Community

We invested R\$ 8.4 million in projects focused on education, livelihoods, and civic engagement.



Customer

We launched a new toilet paper brand, Supra, and continued to enhance the value of our products by delivering quality and safety.



Country

Our legacy is built on social investment, opportunity creation, and environmental contributions.



Bracell Foundation

Established in 2023, Bracell Foundation works to leverage the transformative power of education from early childhood, enabling each child to unleash their full potential and live a better life—both now and in the future.

Its Theory of Change is built around three complementary pillars that support a structured development agenda: Early Childhood Education, Early Childhood Development, and Leadership Development. Through initiatives targeting

measurable, impactful outcomes, the Foundation seeks to achieve profound, enduring, structural change.

Within the Leadership Development pillar, the Bracell Foundation also addresses public health by supporting thought leadership initiatives that encourage discussion and drive positive change in public policy.



About the Bracell Foundation

The Bracell Foundation is a private, non-profit organization and part of the Tanoto Foundation ecosystem—a global institution founded by Sukanto Tanoto and Tinah Bingei Tanoto. It shares the same core values and long-term vision for advancing human and social development.

The Foundation is also closely linked with Bracell, a global leader in dissolving pulp, specialty pulp, and tissue paper, and a member of RGE, founded by Sukanto Tanoto.

Theory of Change

Harness the transformative strength of education to unlock people's full potential and improve lives

PILLARS	EARLY CHILDHOOD EDUCATION / PRESCHOOL		EARLY CHILDHOOD DEVELOPMENT	DEVELOPMENT OF BRAZILIAN LEADERSHIP	
Outcomes	Early childhood education prioritized by governments, businesses, and civil society		Proven practices in early education effectively scaled	Early childhood recognized as a priority in public policy	Leaders equipped to implement public policy effectively
Bracell Foundation results	Increased awareness among key influencers and decision-makers—from the public, private, and nonprofit sectors—about the importance of high-quality early childhood education		Proven early learning models documented and systematized	Effective support in strengthening the early childhood development ecosystem	Knowledge produced to improve the effectiveness of public health policies
Projects	Evidence-based advocacy and leadership engagement	Applied research and knowledge sharing to improve early childhood education	Implementation and evaluation of preschool development and learning practices	Support for early childhood organizations and advocacy coalitions	Funding for applied health research
					Capacity-building programs for public education managers

Advancing the SDGs

The Bracell Foundation's work is aligned with three of the United Nations (UN) Sustainable Development Goals (SDGs):





2

Governance



Governance

Structure

GRI 2-9, 2-10, 2-12, 2-13

Strategic Alignment for Growth

Bracell is a member of **Royal Golden Eagle (RGE)**, a global group of companies in the bio-based resources and energy sectors. **RGE** has an **Executive Management Board** comprised of strategic executives, while **each business unit has its own leadership structure**, with **CEOs, management teams and boards of directors**.

Members of the **RGE Executive Management Board** are appointed to monitor and oversee specific functions in business units, ensuring strategic alignment and management support. In addition, executives from different business units report quarterly to the **RGE Executive Management Board** to present results and discuss corporate matters.

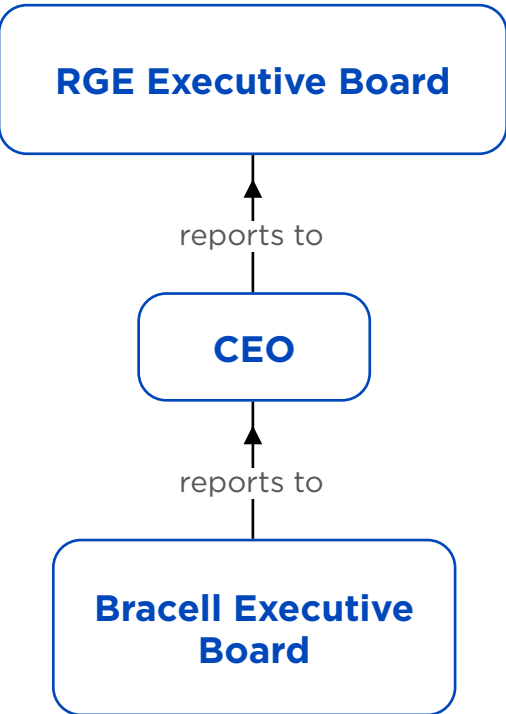


Governance

Governance

Oversight and transparency

Bracell’s president and senior management regularly report to the RGE Executive Board, ensuring continuous oversight of our **strategic planning** and **sustainability strategy** and full transparency and alignment with corporate goals. [GRI 2-18](#)



Bracell is a private company and is therefore not listed on the stock exchange. Our **highest corporate governance body** is the **Sustainability Steering Committee**, which is responsible for:

- Monitoring sustainability performance
- Overseeing environmental, social and governance practices [GRI 2-18](#)

Members are selected on the basis of **technical expertise, skills and strategic competencies**, guaranteeing high-quality decision-making in line with the company’s sustainability principles.

The **Sustainability Steering Committee** receives advisory support from Bracell’s **senior operational management**, composed of **the heads of forestry operations, mill operations, logistics, Legal Affairs, Internal Audit, Corporate Relations and Human Resources**, as well as the **Sustainability VP**. This structure enables a comprehensive analysis of **environmental, social and governance risks and impacts**. [GRI 2-17](#)

In addition, Bracell has a **Crisis Committee** that is convened to **manage unexpected events and emergencies**, ensuring rapid, coordinated responses to mitigate impacts on operations and stakeholders. [GRI 2-16](#)

Composition of the Sustainability Steering Committee



Praveen Singhavi
President [GRI 2-9, 2-11](#)

Guilherme Araújo
Industrial Operations Officer – São Paulo

Mauro Quirino
Head of Forestry Operations

Rudine Antes
Managing Director – Bahia

Luiz Carlos Cavalcanti Dutra Junior
Executive Vice President

Eduardo Aron
Managing Director – Bracell Papéis

The Committee comprises six members, all holding executive positions. There are no independent or advisory members on its governance bodies or committees. Bracell’s senior executives have permanent roles, although the composition of the board may change with business strategy.

Praveen Singhavi stepped up as president of Bracell in January 2023, and has not served in any other executive role within the Company. For more than 15 years (April 2007 to January 2023), he previously served as President of April, a member of the RGE group of companies and one of the world’s largest and most advanced producers of fiber, pulp and paper, with operations in the province of Riau, Sumatra, Indonesia.

LEARN MORE

Learn more in Bracell’s [Disclosures Hub](#) under [GRI 2-10](#), [GRI 2-11](#), [GRI 2-17](#), [GRI 2-18](#), [GRI 2-21](#), [GRI 202-2](#).

Sustainability Governance

GRI 2-9, 2-10, 2-12, 2-13

Sustainability Steering Committee

Bracell follows a structured approach to **sustainability management**, ensuring that **environmental, social, and governance (ESG)** aspects are embedded into both strategic planning and day-to-day operations.

The **Sustainability Steering Committee**, led by Bracell's president, **Praveen Singhavi**, is responsible for **strategic decision-making** concerning key sustainability matters. The committee oversees and validates the **management of environmental, social and governance risks and impacts**, making sure that sustainability is aligned with long-term business planning.

Among its responsibilities, the committee is also in charge of **validating Bracell's materiality matrix**, guaranteeing that priority is given to the most important issues for stakeholders and company strategy. **GRI 2-12, 3-2**

Critical and emerging concerns are communicated to the **Sustainability Steering Committee** by means of:

- 1 Periodic reports from the Executive Board
- 2 Internal and external audit reports
- 3 Risk and compliance reports

This continuous flow of information ensures a **transparent and accurate evaluation of sustainability governance**, enabling us to anticipate challenges and deliver on our commitment to **corporate responsibility**.

The Sustainability Steering Committee tracks progress toward our Bracell 2030 targets.

Crisis Committee

Bracell has a **Crisis Committee** composed of permanent members who are convened whenever necessary to **address crisis and emergency situations potentially affecting our stakeholders, operations, or reputation**. This committee is composed of the **senior management of the departments concerned**, ensuring

an **agile, coordinated response** to mitigate risks and minimize impacts.

The committee follows the guidelines in our **Crisis Prevention and Management Manual**, an internal document that establishes protocols and best practices to ensure **efficient incident management and operational continuity**.



Sustainability Department



Bracell's corporate Sustainability Department is headed by the Sustainability VP, who reports directly to the President and the Sustainability Steering Committee.

On a quarterly basis, the Sustainability VP presents to the committee the progress made on Bracell 2030 targets and commitments and sustainability projects across Climate Action, Sustainable Landscapes and Biodiversity, Driving Sustainable Growth and Empowering Lives (learn more about Bracell 2030 on [page 81](#)).



LEARN MORE

Find out more in the Governance section of our [Disclosures Hub](#), under GRI 2-12, GRI 2-13, GRI 2-14, GRI 2-16, GRI 2-17.



Risk

Management

GRI 2-16

Strategic Risk Management Approach

Bracell follows a structured and preventive approach to **risk management**, grounded in the **precautionary principle**. We are committed to **protecting the environment, preventing harm to the ecosystems** where we operate, and **ensuring the long-term sustainability of our business**. Beyond mitigating potential risks, we strive to create **positive social and environmental value in the short, medium, and long term**.

Bracell's **management of corporate risk** aims to **identify, evaluate and mitigate threats that could impact business goals**. We use structured methodologies and **continuous monitoring** tools, promoting an

organizational culture geared to risk prevention and mitigation.

The management process involves an **integrated assessment of internal and external factors**, covering **operational, social, environmental and governance risks** and ensuring strategic decisions are based on a broad, sustainable vision.

Risk management and due diligence governance

Bracell's **risk management** structure is organized around **committees at different levels of the organization**, which convene recurrently:

Corporate Steering Committee

Supervises and directs risk management at the corporate level, supporting strategic decision-making that considers a broad view of business risks and opportunities.

Business unit executive committees

These committees ensure that strategic and operational risks are managed in an integrated way, in line with each unit's goals.

Departmental committees

Responsible for identifying and managing operational risks specific to each department, promoting awareness and best mitigation practices.

Risk Management Program (RMP)

Bracell's risk management practices follow guidelines outlined as part of our **Risk Management Program (RMP)**, based on **international methodologies**. The RMP sets out guidelines and processes for:

With this structure, we ensure that our operations are prepared to **anticipate challenges, minimize impacts and strengthen organizational resilience**, in line with global sustainability best practices.

- 1 Information management and continuous monitoring
- 2 Role-specific training
- 3 Use of technologies to mitigate risk
- 4 Emergency response protocols

Impact Management and Corporate Policies GRI 2-13, 2-23

We align our business and sustainability objectives, targets, and commitments with our **Purpose, Vision, Values** and **Sustainability Vision** (see more on [page 12](#)), ensuring that environmental, social, and governance (ESG) factors are fully integrated into **our business strategy**.

The **Executive Board**—comprising executives across forestry and mill operations, logistics, Legal, Internal Audit, Corporate Affairs, and Human Resources—is responsible for **executing our strategic plan and overseeing operational performance**.

To strengthen governance and transparency, the Executive Board submits weekly, monthly, and quarterly reports to the Sustainability Steering Committee, as well as *ad hoc* communications to address critical risks. In emergency situations, we activate a Crisis Committee (see [page 62](#) for more details). **GRI 2-13**

This model supports a governance structure that is both agile and aligned with Bracell's commitment to sustainability and organizational resilience.



Our business and sustainability goals, targets, and commitments are aligned with our Purpose, Vision, Values, and **Sustainability Vision**.

learn more

For more information, see the Governance section of our [Disclosures Hub](#) under GRI 2-13, 2-17, 2-24, 2-26, 205-1, 205-2, 205-3, and 206-1.

As signatories of the **Global Compact**, we annually report on progress and results on topics linked to the 10 Universal Principles. Bracell's Communication on Progress is available [here](#).

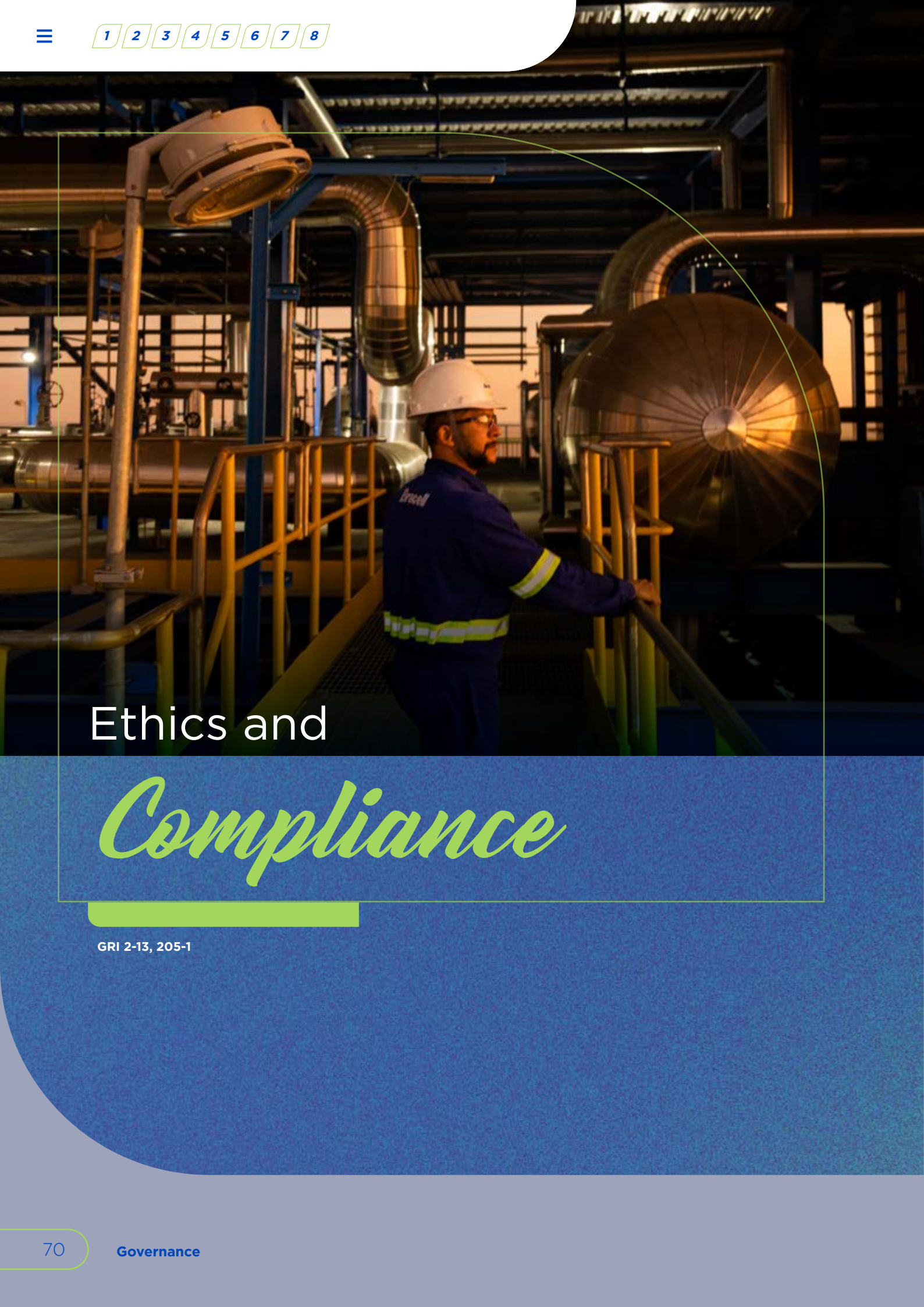
Regulations and Voluntary Commitments



Our corporate strategy and management approach are guided by:

- Brazil's labor legislation and Regulatory Standards (NRs) established by the Ministry of Labor and Employment
- The Ten Principles of the UN Global Compact
- The UN Women's Empowerment Principles (WEPs)
- The International Finance Corporation's (IFC) Performance Standards on Environmental and Social Sustainability¹
- The International Bill of Human Rights
- The UN Guiding Principles on Business and Human Rights
- The International Labor Organization's (ILO) Declaration on Fundamental Principles and Rights at Work
- The United Nations Declaration on the Rights of Indigenous Peoples.

¹ The largest global development institution focused on the private sector in developing countries



Ethics and Compliance

GRI 2-13, 205-1

Integrity in Business and Relationships

Acting with integrity and in strict compliance with local laws in all regions where we operate are core values at Bracell (read more on [page 12](#)). The [Bracell Code of Conduct](#) and RGE’s Global Code of Conduct—an internal document—guide our teams in upholding these principles. These documents are broadly disseminated, providing guidelines on ethical behavior, including critical topics such as conflicts of interest.

In addition, we have a comprehensive set of tools, policies, and internal standards in place to reinforce integrity at all levels. The [Bracell Procurement Code of Conduct](#) highlights the importance of an ethical business environment, preventing conflicts between financial and personal interests within RGE. All business with suppliers must be conducted fairly, without personal gain, promoting a mutually beneficial trading relationship. The Code establishes that all suppliers must submit a declaration to the company stating whether or not they have any personal affiliations with staff or representatives of the organization, in order to identify potential conflicts of interest.

All of our operations undergo corruption risk assessments, conducted in line with Bracell’s [Anti-Bribery and Anti-Corruption Policy](#) and RGE’s internal Anti-Corruption Policy (see [GRI 2-6](#) for more on Bracell’s operational structure).

The Internal Audit, Compliance and Risk Management departments lead the assessment of ethics and corruption risks. Identified risks are addressed in internal procedures as part of Bracell’s Integrated Management System (read more under [GRI 2-13](#)), which formalize processes for managing corruption-related risks, as well as prevention and impact mitigation measures.

Bracell also has a specific [Whistleblowing Policy for inaccuracies in financial reporting](#), aimed at all employees. This document sets out fundamental principles and procedures for reporting and investigating concerns.

Conflict of Interests GRI 2-15

Bracell's Code of Conduct and RGE's Global Code of Conduct provide clear guidelines on conflict of interest. Both are disclosed to employees, who complete a Conflict of Interest Declaration where they identify such situations.

Our Procurement Code of Ethics highlights the importance of an ethical business environment, preventing conflicts between financial and personal interests within RGE.

Corporate Integrity Program



Through our Integrity Program, we assess risks according to their likelihood and magnitude of impact, and:

- We create and/or update corporate policies and procedures to enhance control of operational processes in relation to these risks;
- We carry out training and workshops with a focus on risk-management practices and control mechanisms; and
- We run communication initiatives and events that reinforce integrity best practices, such as information bites on the subject and a newly launched question-and-answer guide about the Integrity Program and Code of Conduct.



Reporting Channels

Bracell provides two formal communication channels for submitting reports, complaints, or concerns related to the company. These channels are

widely communicated and easily accessible to all stakeholders, both inside and outside the organization.

Secure *Contact Point*



Available to all Bracell stakeholders, *Bracell Escuta* is a platform for reporting misconduct and non-compliance with applicable laws and regulations, our Code of Conduct, or other company policies.

Reports are handled confidentially and whistleblowers are kept anonymous. Reports are investigated by an internal audit team, which reports directly to senior management at Bracell and RGE.

Contact information:

denuncias.bracell@contatoseguro.com.br

www.contatoseguro.com.br/bracell

0800 810 8546

We maintain formal communication with stakeholders through our **Bracell Escuta** and **Contact us** channels

Contact *us*



This channel, which is open to all stakeholders, is geared to clarifying queries, receiving compliments and logging complaints from the community. Cases are directed to the relevant departments depending on the nature of the issue.

Contact information:

Bahia:

0800-284-4747

faleconosco@bracell.com

São Paulo:

0800-709-1490

faleconoscosp@bracell.com



LEARN MORE

Find out more in the Governance section of our Disclosures Hub under GRI 2-25.

3

Bracell 2030



Sustainability Vision

Our commitment to sustainable development is grounded in circular bioeconomy principles. We aim to revolutionize the forest-based pulp and paper industry and remain at its forefront, while providing diversified products from responsibly managed, renewable plantations. We believe in creating shared value as well as building impactful and long-lasting partnerships that enable us to continuously do good for our Communities, Country, Climate and Nature, Customers and Company.

Long-Term Strategy

Bracell 2030 is our long-term sustainability roadmap. Launched in 2023 as a public commitment, it outlines **14 goals across four strategic pillars**, with an overarching objective to create **positive impact and deliver value for our Community, Country, Climate, Customers, and Company**—in line with our 5Cs Philosophy

Bracell 2030's four strategic pillars are:

- **Climate Action:** cutting emissions and increasing carbon removals.
- **Sustainable Landscapes and Biodiversity:** protecting ecosystems and preserving fauna and flora.
- **Fostering Sustainable Growth:** optimizing resource efficiency

and expanding circular economy practices.

- **Empowering Lives:** promoting inclusion, diversity, education, and income opportunities.

In **2024**, we shared the initial results from this journey, reflecting our commitment to a more efficient, responsible production model **that meets the expectations of stakeholders**. Our prioritization of issues such as **climate change, biodiversity, water management, waste, and social impact** was validated through a **double materiality assessment conducted this same year (see page 93)**.

learn more

Learn more in the Governance section of our [Disclosures Hub](#), under GRI 2-22 and 2-24.

Sustainability

Journey



Bracell 2030 is embedding **sustainability at the core** of our business model.

Targets, Commitments, and *Performance 2024*

On the following pages, we present our progress on the targets set in our Bracell 2030 roadmap and information about the benchmarking exercise carried out to inform these targets. We also provide data on the interim commitments established for 2024, our results during the year, and which SDGs each target supports.

We believe in **creating shared value** and in building lasting partnerships.

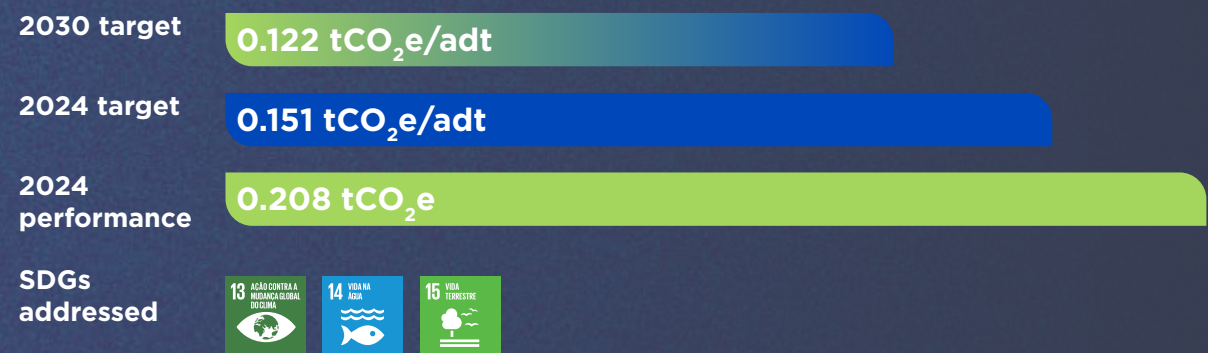
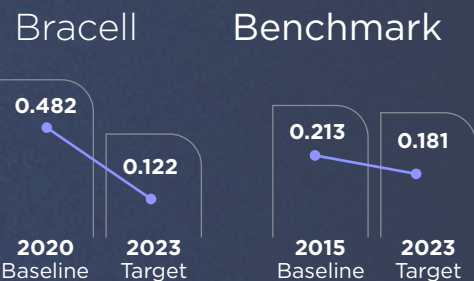
Climate Action

Climate-positive operations supporting a **low-carbon economy**

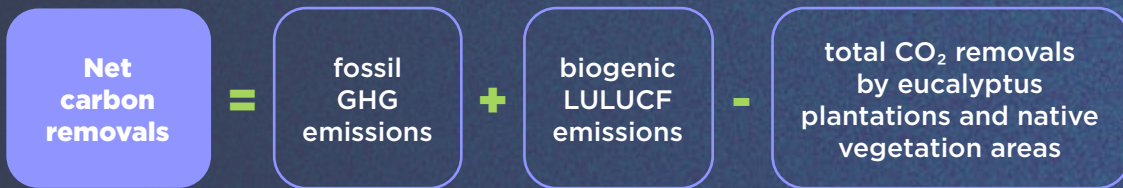


Reduce carbon emissions per metric ton of product by 75%, targeting 0.122 tCO₂e/adt

Benchmarking
Reduction in carbon emissions per ton of product (tCO₂e/t)



25 MtCO₂e removed from the atmosphere between 2020 and 2030*





Sustainable Landscapes and Biodiversity

Build regenerative systems that benefit nature, biodiversity and ecosystem services

Preserve 230,000 hectares of native forests

KPIs Initiatives to preserve native forest areas located within public protected areas in the states of São Paulo, Bahia, and Mato Grosso

2030 target 230,000 hectares

2024 target 189,000 hectares

2024 performance 186,000 hectares

SDGs addressed  

Scientific research on biodiversity conservation

2030 target Support 10 research projects on biodiversity conservation

2024 target 8 projects

2024 performance 8 projects

SDGs addressed  

Support for the **reintroduction of animals** into the wild

2030 target Double the number of Bracell-owned areas certified by environmental regulators for releasing wild animals in native forests

2024 target Obtain certification for 4 designated areas for the release of wildlife

2024 performance  Met

SDGs addressed  

Protection of endemic and threatened species

2030 target Natural habitats and endemic threatened species monitored in priority areas for biodiversity conservation

2024 target Complete the following steps:
1) Host a workshop with experts to establish project assumptions
2) Identify Bracell's priority areas for conservation
3) Define baseline areas within the surrounding landscape

2024 performance  Met

SDGs addressed  

Driving Sustainable Growth

Expand our business through increased efficiency, circularity and responsible production



47% reduction in water withdrawals in mill operations

Benchmarking

Water consumption per metric ton of product (m³/t)

Bracell Benchmark

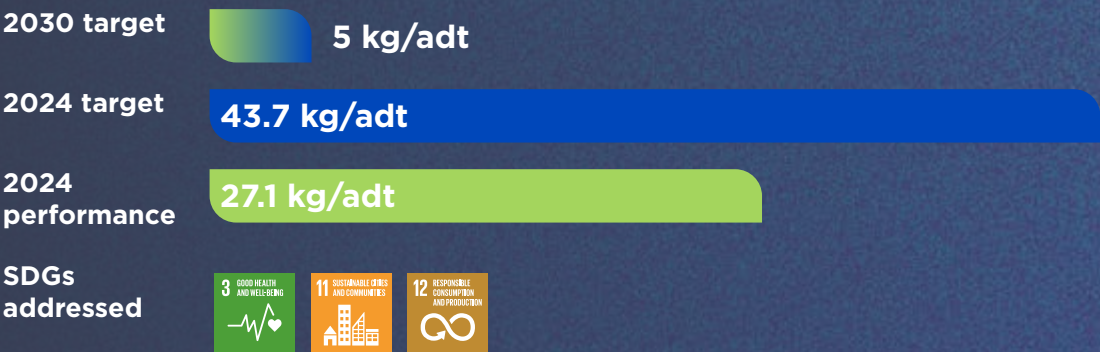
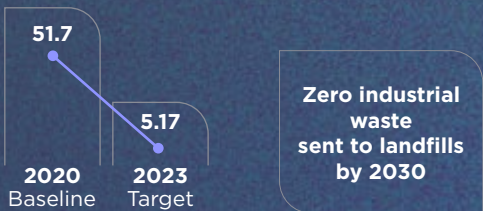


90% reduction in Class II industrial waste sent to landfills

Benchmarking

Reduction of industrial waste sent to landfills per metric ton of product (kg/t)

Bracell Benchmark



97% chemical recovery rate in our operations



Empowering Lives

Provide capacity building to our people and communities through **transformational initiatives**

Provide **equal opportunity** for women

KPIs Increase the proportion of women in leadership positions to 30%

2030 target 30%

2024 target 27%

2024 performance 29.4%* 

SDGs addressed   

* In our pulp business

Promote **female entrepreneurship** in communities

KPIs At least 60% of “impact business” programs led by women

2030 target 60%

- 2024 target**
- 1) São Paulo: Carry out a social and economic assessment to inform strategies for advancing education and reducing poverty
 - 2) Bahia: develop an impact assessment on our Continuing Education program and update the existing socioeconomic profile
 - 3) Mato Grosso do Sul: conduct a social and economic assessment with an emphasis on regional development
 - 4) Design a methodology for managing and monitoring social targets
 - 5) Establish a baseline, build an impact framework, define the rationale for measuring targets, and create a five-year roadmap

2024 performance  Met

SDGs addressed    

Foster an **inclusive workplace environment** for affinity groups



KPIs Achieve 90% positive ratings by employees and affinity groups in relation to respect and equity in the workplace

2030 target 90%

- 2024 target**
- 1) Finalize baseline
 - 2) Define key performance indicators to measure respect and equity variables
 - 3) Establish a framework for managing and monitoring implementation of action plans

2024 performance  Met **SDGs addressed**  

Create **income opportunities** for families and communities

KPIs Raise the incomes of families participating in Bracell’s income creation programs in priority areas by 20%

2030 target 20%

- 2024 target**
- 1) Design a methodology for managing and monitoring social targets
 - 2) Build the baseline
 - 3) Create an Impact Framework, establish the rationale for measuring targets, and draft a five-year roadmap

2024 performance  Met **SDGs addressed**   

Support high-quality **public education**

KPIs Improve **Portuguese and Mathematics proficiency** by 30% in Bracell-supported public schools in areas with low school achievement rates

2030 target 30%

- 2024 target**
- 1) Design a methodology for managing and monitoring social targets
 - 2) Build the baseline
 - 3) Create an Impact Framework, establish the rationale for measuring targets, and draft a five-year roadmap

2024 performance  Completed **SDGs addressed** 

Bracell 2030 Highlights

The year 2024 marked the first full cycle of tracking progress on our Bracell 2030 roadmap. These metrics improved our management of each pillar of our long-term sustainability strategy. Performance data for each metric has supported strategic decision-making and guided investments to drive our growth agenda.

The **Climate Action** pillar reflects Bracell's commitment to mitigating climate change effects by reducing GHG emissions and sequestering carbon dioxide from the atmosphere. Our 2030 targets focus on decarbonizing production operations and enhancing added value from our natural assets (read more on [page 191](#)).

GHG emission reduction

Bracell has set a target to reduce carbon emissions per metric ton of pulp produced by 75% by 2030. In 2024, our emissions intensity was 0.208 tCO₂e/adt (see [page 195](#)).

Carbon Sequestration

Also under the climate pillar, we have set a target to remove 25 million metric tons of CO₂ equivalent from the atmosphere between 2020 and 2030. Removals are achieved through planted eucalyptus forests

and native vegetation areas designated for conservation under Bracell management. In 2024, we removed -4.3 MtCO₂e (learn more on [page 194](#)).

Under the **Driving Sustainable Growth** pillar, Bracell has set a target to reduce water consumption per metric ton of pulp produced by 47% to 16.6 m³/adt by 2030. Between 2020 and 2024, we met the year's target with a consumption of 19.2 m³/adt, a 38.2% reduction compared to our 2020 baseline of 31.1 m³/adt.

Water intensity was
19.2 m³/adt,
lower than our 2024 target.

Women hold
29.4%
of leadership positions,
exceeding our target for the year.



We are also working to reduce the volume of industrial waste sent to landfills per metric ton of pulp by 90%. In 2024, we sent 27.1 kg/adt to landfills, significantly surpassing our annual target of 43.7 kg/adt (see [page 155](#)).

Under the **Sustainable Landscapes and Biodiversity** pillar, our established target is to support the conservation of 230,000 hectares of native forest on public land by 2025, in partnership with the state governments where we operate. In 2024, we reached 186,000 hectares conserved, across the states of São Paulo, Bahia, and Mato Grosso do Sul. (learn more on [page 170](#)).

Within the **Empowering Lives** pillar, we exceeded our **2024 target for the share of women in leadership** positions. We reached 29.4% in our pulp operations, surpassing our target of 27% for the year. To inform our local community development targets, we conducted an assessment in 2024 to identify opportunities for improving public education and reducing poverty in municipalities located within the area of influence of our operations.

We also carried out a comprehensive assessment to identify the region's strengths, challenges, and opportunities for advancing sustainable development in municipalities where we operate. This data forms the baseline for our 2030 targets.



Materiality

GRI 3-1, 3-2

Double Materiality: A Broader View of Sustainability

At Bracell, we update our materiality matrix every two years. In 2024, we developed the most recent version based on the double materiality concept, which broadens the traditional materiality approach by considering two complementary dimensions: the impacts the company has on the environment and society, and the effects that external environmental, social, and governance factors can have on the business in the form of risks or opportunities. This provides a broader view of our relationship with society and the environment—both from the inside

out and the outside in—along with stakeholder perspectives.

Double materiality also includes **financial, social and environmental impacts**, allowing us to **more precisely set priorities and better align with stakeholder expectations**. Double materiality enables Bracell to design broader impact mitigation plans and build more effective sustainability strategies. As a result, we are able to strengthen our ESG governance and better plan for the future. It also supports greater resilience to change and long-term business sustainability.



At Bracell, **double materiality** directly connects to the targets and commitments set out in our Bracell 2030 roadmap, and supports sounder ESG strategy.

Material Topics



To identify material topics, we applied a methodology that considers two dimensions:

- Financial/ESG materiality (how environmental and social issues create financial impacts on the company): this assessment involved interviews with senior leadership and a structured risk and opportunity assessment based on likelihood and magnitude.
- Impact materiality (how business activities impact society and the environment): this included working sessions with internal experts and interviews with external specialists, applying criteria such as likelihood, magnitude, scale, and reversibility.
- We also surveyed Bracell's key stakeholders, using a prioritization approach based on the nature and closeness of their relationship to our business. Stakeholders consulted included: communities and forestry partners, suppliers, trade associations, NGOs and environmental organizations, and employees in leadership roles.



In parallel, we reviewed internal Bracell documents and conducted a sector benchmarking exercise to help validate the most material topics. Reference frameworks included the SASB Sustainability Accounting Standard for Pulp & Paper Products, the MSCI ESG Industry Materiality Map – Paper Products, and S&P Global's The

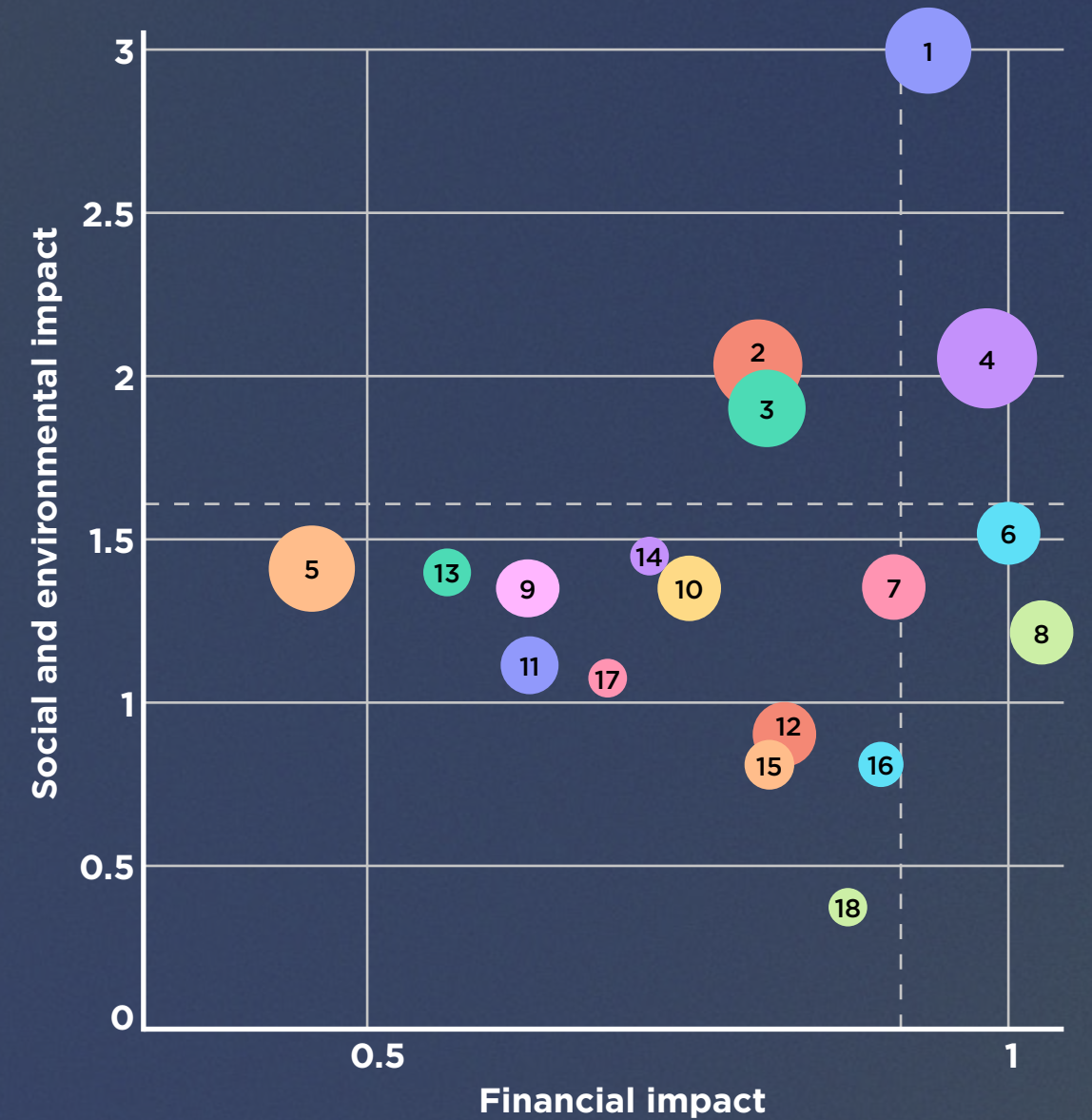
Sustainability Yearbook 2024 – Paper & Forest Products.

Taking all three inputs—financial materiality, impact materiality, and stakeholder insight—we identified 18 material topics, shown in the chart below. From these, we selected and prioritized seven key material topics:

Seven Prioritized Material Topics:

- 1 Attracting, developing and retaining employees
- 2 Biodiversity and ecosystems
- 3 Supply chain management
- 4 Water and effluent management
- 5 Climate change
- 6 Community engagement and local development
- 7 Occupational health, safety and well-being

Our 2024 materiality matrix was developed using the **double materiality** approach, which offers a broader perspective than traditional materiality assessments.



- 1. **Water and effluent management**
- 2. **Climate change**
- 3. **Biodiversity and ecosystems**
- 4. **Supply chain management**
- 5. **Community engagement and local development**
- 6. **Attracting, developing and retaining employees**
- 7. **Health and well-being**
- 8. **Occupational safety**
- 9. Energy efficiency
- 10. Waste management

- 11. Ethics, integrity and compliance
- 12. Innovation and technology
- 13. Diversity, equity and inclusion
- 14. Human rights and land tenure
- 15. Air quality
- 16. Engagement with government agencies and civil society organizations
- 17. Product quality and safety
- 18. Customer transparency

Scope	GRI disclosure	SASB	SDG	UNGC
BRACELL 2030	Climate Action: climate positive operations supporting a low-carbon economy			
Material topic	Climate change: planning, policies and initiatives to mitigate emissions, establish low-carbon production capabilities and adapt to a warming planet.			
Scope of reporting	GRI 3-3	RR-PP-110a.1 RR-PP-110a.2 RR-PP-120a.1 RR-PP-130a.1		7, 8, 9
	201-2			
	302-1			
	302-2			
	302-3			
	302-4			
	302-5			
	305-1			
	305-2			
	305-3			
	305-4			
	305-5			
	305-6			
	305-7			
BRACELL 2030	Sustainable Landscapes and Biodiversity: build regenerative systems that benefit nature, biodiversity and ecosystem services			
Material topic	Biodiversity and ecosystems: strategies, policies, and programs to preserve biodiversity and natural ecosystems. This includes forest conservation and restoration practices, protection of plant and animal species, and preventing deforestation. It also involves using sustainable forest management practices and following certification standards to ensure effective ecosystem protection.			
Scope of reporting	3-3	Not applicable		8
	101-1			
	101-2			
	101-4			
	304-1			
	304-2			
	304-3			
	304-4			
BRACELL 2030	Driving Sustainable Growth: expand our business through increased efficiency, circularity and responsible production			
Material topic	Water and Effluent Management: strategies, policies, and programs to preserve water resources and watersheds, improve water efficiency, and manage risks and impacts associated with water availability and the treatment of production effluents.			

Scope	GRI disclosure	SASB	SDG	UNGC
Scope of reporting	3-3	RR-PP-140a.1 RR-PP-140a.2	 	7, 8
	303-1			
	303-2			
	303-3			
	303-4			
	303-5			
Strategic topic	Waste management: circular economy, reducing waste generation and minimizing landfilling.			
Scope of reporting	306-1	Not applicable	   	7, 8
	306-2		    	
	306-3		   	
	306-4		  	
	306-5		    	
Material topic	Supply chain management: requiring, managing and enforcing high standards of supplier quality, including policies and procedures outlining social and environmental requirements in procuring goods and services.			
Scope of reporting	3-3	RR-PP-430a.1	  	1, 2, 4, 5, 7, 8
	308-1			
	308-2			
	407-1			
	408-1		  	
	409-1		 	
	414-1		  	
	414-2			
BRACELL 2030	Empowering Lives: empower our people and communities through transformational initiatives			
Material topic	Talent acquisition, development and retention: initiatives and recognition programs that value our human capital, along with strategies to attract, develop, and retain top talent.			

Scope	GRI disclosure	SASB	SDG	UNGC
Scope of reporting	3-3	Not applicable	   	3, 6
	201-3			
	202-1		 	
	401-1		   	
	401-2		  	
	401-3		 	
	404-1		   	
	404-2			
	404-3		  	
	405-1		 	
	405-2		  	
	406-1		 	
Material topic	Workplace health, safety, and well-being: policies and initiatives aimed at promoting employee health, safety, and quality of life in the workplace.			

Scope	GRI disclosure	SASB	SDG	UNGC
Scope of reporting	3-3	Not applicable		1, 2, 3
	403-1			
	403-2			
	403-3			
	403-4		 	
	403-5			
	403-6			
	403-7			
	403-8			
	403-9			
403-10	  			
Material topic	Community engagement and local development: managing relationships with local communities to mitigate risks, prevent negative impacts, and create positive social value.			
Scope of reporting	3-3	Not applicable	   	1, 2, 7, 8, 9
	202-2			
	203-1		  	
	203-2		  	
	204-1			
	411-1			
	413-1		 	
	413-2			
Governance and risk management				
Strategic topic	Compliance, ethical conduct, integrity, and transparency: implement good practices consistent with Company policies, applicable laws and regulations and industry standards, ensure compliance, and uphold ethics, integrity and transparency.			
Scope of reporting	2-27	Not applicable		8, 10
	205-1			
	205-2			
	205-3			
	206-1			

Our **sustainability strategy** is directly aligned with the Bracell 2030 roadmap, our materiality matrix, the GRI and SASB disclosures we report, the UN Sustainable Development Goals (SDGs), and the 10 Universal Principles of the UN Global Compact.



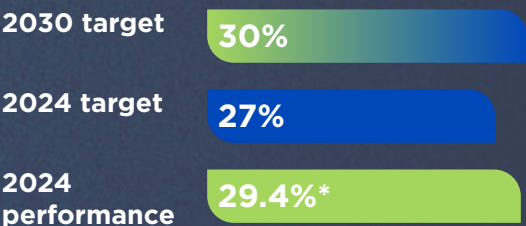
4

Empowering Lives



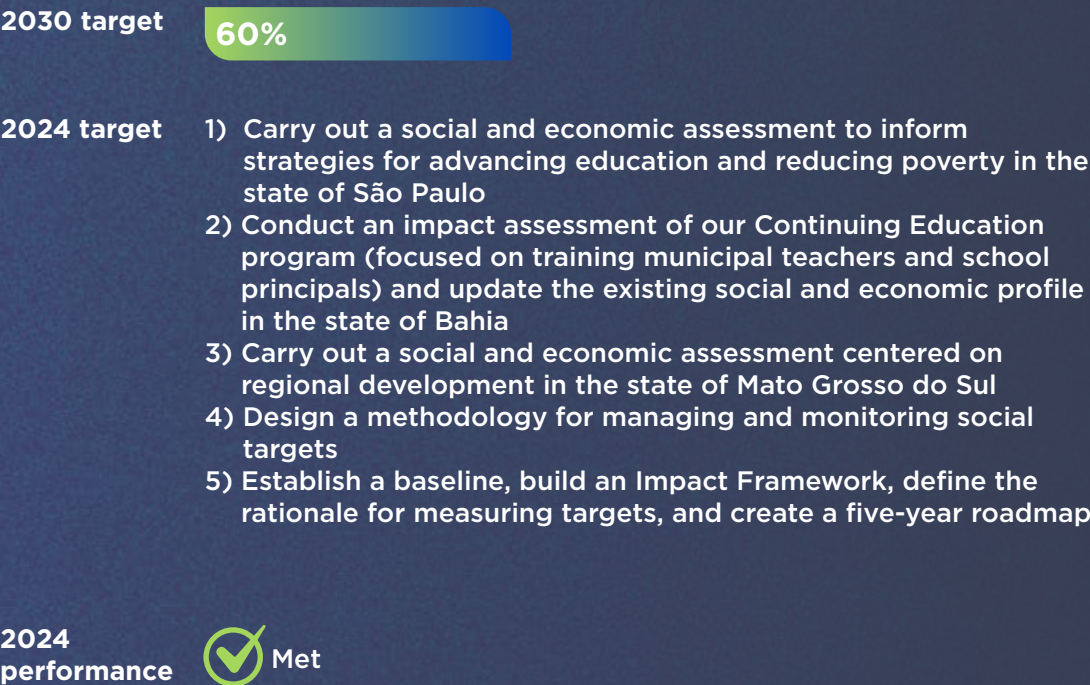
Pillar: Empowering Lives

Promote equal opportunity for women
(**increase the proportion of women in leadership positions to 30%**)

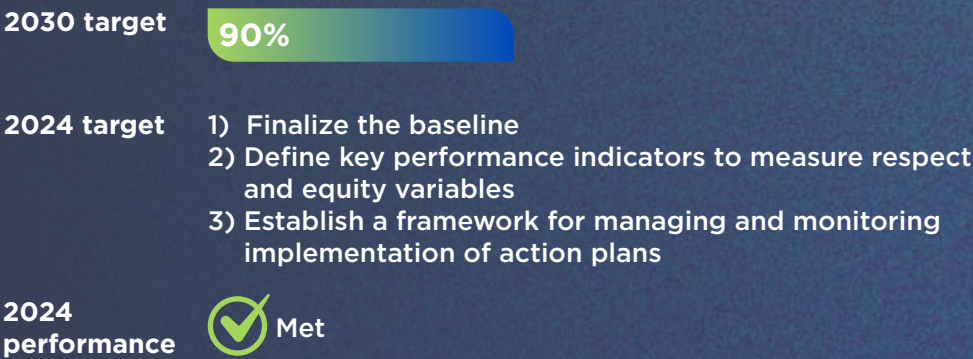


* In our pulp business

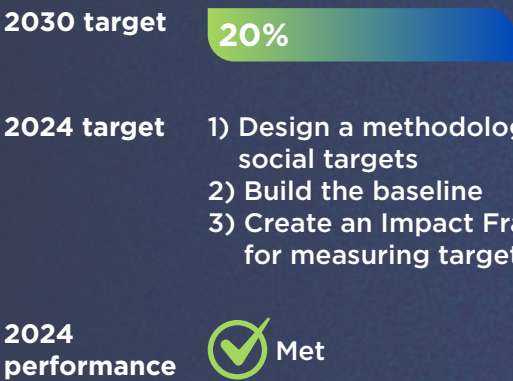
Promote women’s entrepreneurship in communities (**at least 60% of Bracell-supported “impact business” projects to be led by women**)



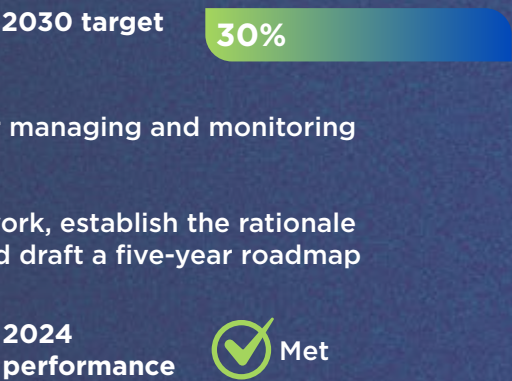
Foster an inclusive workplace for affinity groups and achieve a **90% positive employee** satisfaction rating among these groups in terms of respect and equity in the workplace



Promote income generation for families and communities (**raise the incomes of families participating in Bracell’s income creation programs in priority areas by 20%**)



Advance high-quality public education (**improve Portuguese and Mathematics proficiency by 30%** in Bracell-supported public schools in areas with low school achievement rates)





Women in

Leadership

Diversity & Inclusion in Action

Promoting gender equality is one of the top priorities in the **Bracell 2030** roadmap, which sets a target of having **30% of leadership positions held by women by 2030**. In 2024, we made significant progress on this commitment and **surpassed our interim target set for the year — 27% —** closing the cycle with **29.4% of leadership roles held by women in our pulp operations**, representing **117 female leaders** in this segment. These include 6 senior managers, 37 managers, and 74 coordinators—a strong female presence across different levels of leadership.

As part of our **Diversity & Inclusion (D&I)** targets, we also aim to foster a more inclusive work environment for our **affinity groups**, with a target of achieving

90% positive feedback from these employees on **respect and equity in the workplace by 2030**.

In 2024, the first year of implementing the Bracell 2030 roadmap, we established a **satisfaction baseline for affinity groups** and defined the **key performance indicators** that will guide future progress. This was done through a Diversity & Inclusion Census carried out during the year, which surveyed employees from affinity groups across all business units. When asked about their overall satisfaction with Bracell, 27% of respondents expressed satisfaction (read more on [page 120](#)).

learn more

Learn more about our D&I efforts on [page 119](#).

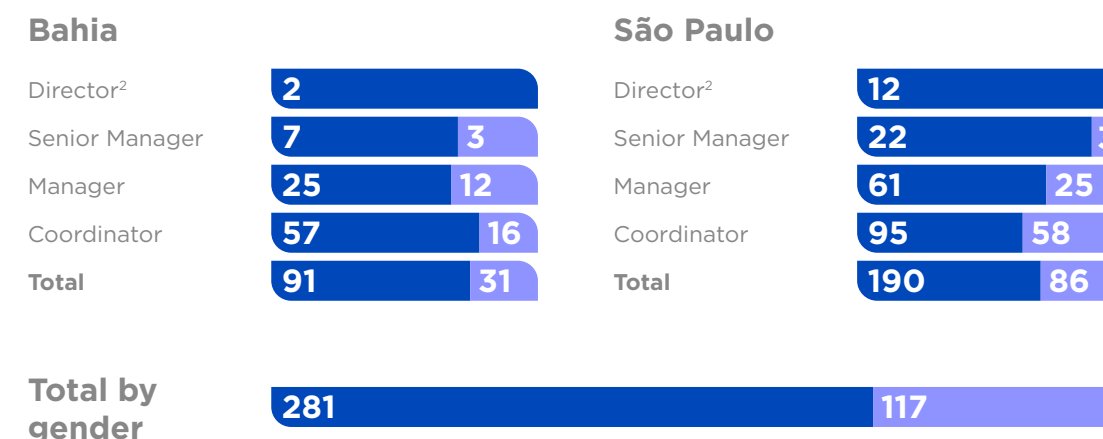
As of yearend 2024, Bracell’s women in leadership included **six senior managers, 37 managers, and 74 coordinators**—making up 29.4% of all leadership roles.

In 2024, we carried out the following initiatives as part of our Diversity & Inclusion 2030 roadmap



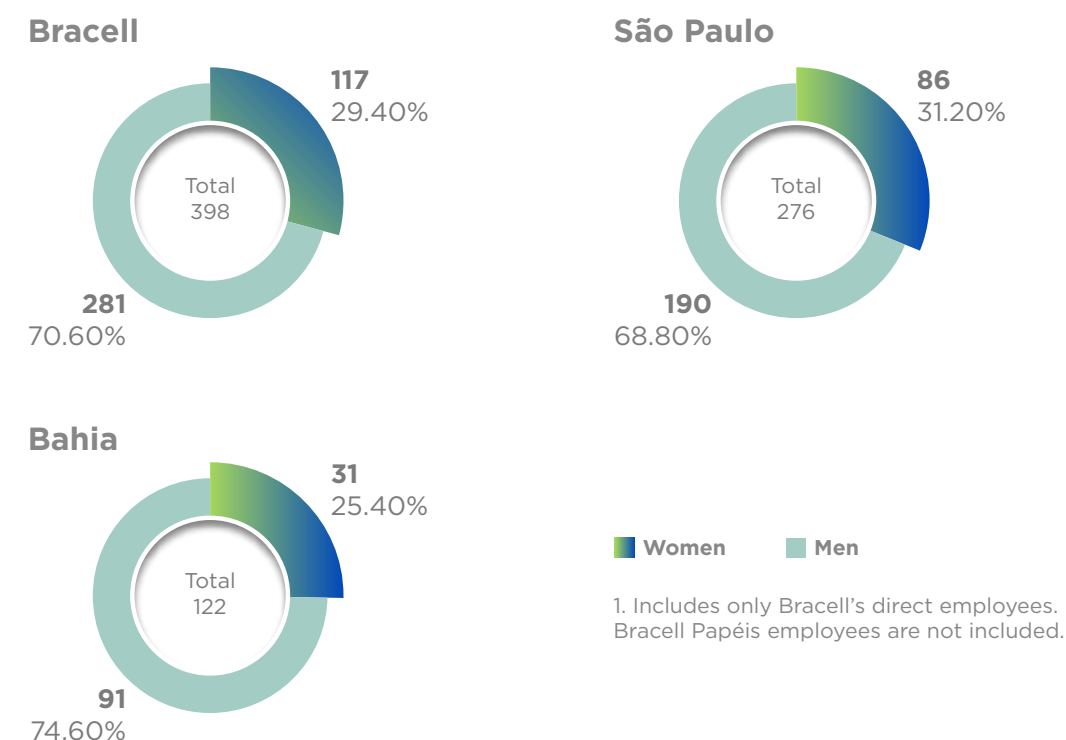
- 1 Conducted a company-wide Diversity & Inclusion Census across all Bracell operations
- 2 Ran a survey on respect and equity, targeted at affinity group members, as part of the D&I Census
- 3 Launched a Women's Talent Acquisition and Retention Program—which includes mapping women in succession tracks for leadership roles, opening affirmative job postings for women, creating a women-focused talent pool, and providing leadership training on bias awareness and inclusive leadership
- 4 Rolled out the Women's Career Acceleration Program—focused on women identified as future leaders—which also includes creating affirmative-action leadership positions for women.

Number of leaders in pulp business operations, by gender and role - 2024¹ GRI 405-1



1. Includes only Bracell's direct employees. Bracell Papéis employees are not included.
2. Including the positions of president, director, head and vice president.

Percentage of women in leadership roles directly involved in pulp operations - 2024¹



Promoting Women’s Entrepreneurship, Education, and Income Generation

As part of the social targets in our **Bracell 2030** roadmap, we have committed to promoting **women’s entrepreneurship, expanding income opportunities** and **strengthening public education** in the regions where we operate.

Our goal is for **at least 60% of “impact business” projects to be led by women**—reinforcing our commitment to gender equity and female leadership.

We also aim to raise **the income of families involved in income-generation initiatives in priority areas by 20% by 2030**.

In education, Bracell is helping to improve learning outcomes in communities with historically low academic performance. We have set a target to **increase Portuguese and math proficiency by 30% in the public schools participating in our programs**.

Our target is for at least **60%**

of “impact business” projects to be led by women.

We are working to **improve** proficiency in Portuguese and math by **30%** in public schools.

learn more
Learn more about Bracell Social, our dedicated social investment platform, on [page 134](#).

In 2024, we carried out the following initiatives as part of our Bracell 2030 roadmap focused on strengthening local communities:



- 1 Social and Economic Assessment – São Paulo – We conducted an assessment to identify opportunities for improving public education and reducing poverty in municipalities located within the area of influence of our operations
- 2 Impact Assessment – Continuing Education Program – We conducted an assessment of impact from our program supporting the professional development of public school teachers and principals, helping to strengthen local continuing education programs. The program is running in municipalities in the state of Bahia, where we also began updating the regional social and economic analysis
- 3 Territorial Development Assessment – Mato Grosso do Sul – We carried out a comprehensive assessment to identify the region’s strengths, challenges, and opportunities for advancing sustainable development in municipalities where we operate
- 4 Social Target Management and Monitoring Framework – Bracell 2030 – We developed a comprehensive framework for tracking Bracell 2030 social targets, including baseline definitions, an impact framework, and rationale for calculating metrics—ensuring greater precision in measuring results and social impact over the coming years.

Women's Entrepreneurship

Janete Neves is a mother, *quilombola*, and entrepreneur. A participant in the Pollinators Project and Bracell's Social Impact Business Promotion Program, she leads Ajarquiba, an association located in the *quilombola* community of Piaçava, in the municipality of Esplanada (BA).

Under Janete's leadership and through participation in Bracell's initiatives, Ajarquiba has boosted its honey production by adopting techniques such as raising and introducing queen bees into its hives. Today, the association produces a variety of honey-based products, such as cookies, beer, chili peppers, caramelized licuri nuts, as well as propolis and pollen.

The association, made up of around 60 active members—mostly women and young people—has developed with the help of training, technical assistance, and management support offered by the Pollinators Project and Bracell's Impact Business Program. Ajarquiba's transformation can be seen in its success at events like the Bahia Family Farming Fair, organized by the State Government of Bahia. In both 2023 and 2024, the group led the booth reserved for production groups from the Northcoast and Agreste region of Bahia.

Also as part of the Pollinators Project, Janete took part in a 2024 course on stingless beekeeping, aimed primarily at women, to encourage their participation in beekeeping in the region. At the end of the course, **29 women received boxes with productive colonies** of the Uruçu Nordestina species and received technical support throughout the year to multiply the colonies and increase productivity.



Valuing our

Human Capital

GRI 3-3

LEARN MORE

Learn more about our Diversity & Inclusion initiatives on [page 119](#).

A Focus on People

Human capital is a strategic resource for Bracell’s sustainability and long-term business continuity. In 2024, we continued to invest in attracting, retaining, and developing talent. Occupational health management and workplace safety, which are crucial for ensuring a safe, healthy, and inclusive work environment, are equally important.

We believe that both hard and soft skills are essential to the success of our employees. That’s why we continue to scale up initiatives in **professional training, organizational culture, and health and safety practices**—aligned at all times with our **values of diversity, equity, and inclusion**.



Bracell has consistently expanded operations in Brazil:

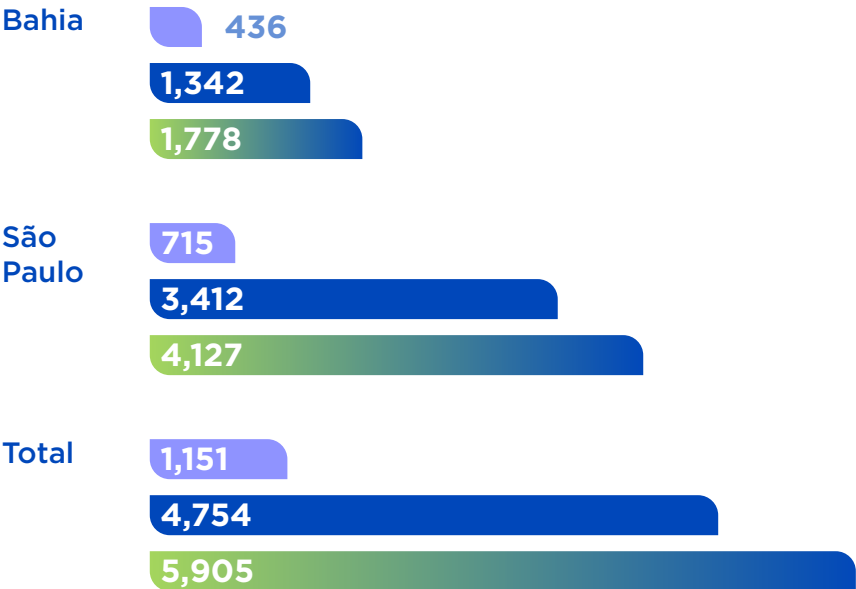
Between 2021 and 2024, we saw a **151%** increase in the number of direct employees, reaching a total of **10,235**—including **1,688** at Bracell Papéis.



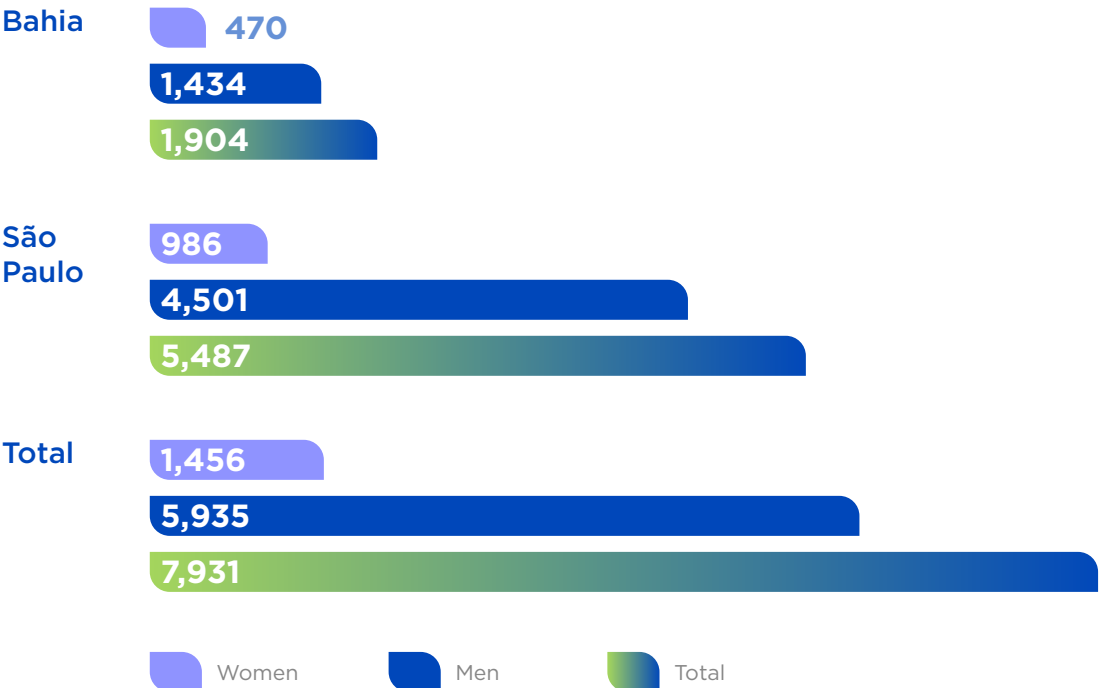
Talent acquisition, development and retention, and workplace health, safety, and well-being have been identified as **strategic material topics for Bracell**.

Workforce by region and gender GRI 2-7

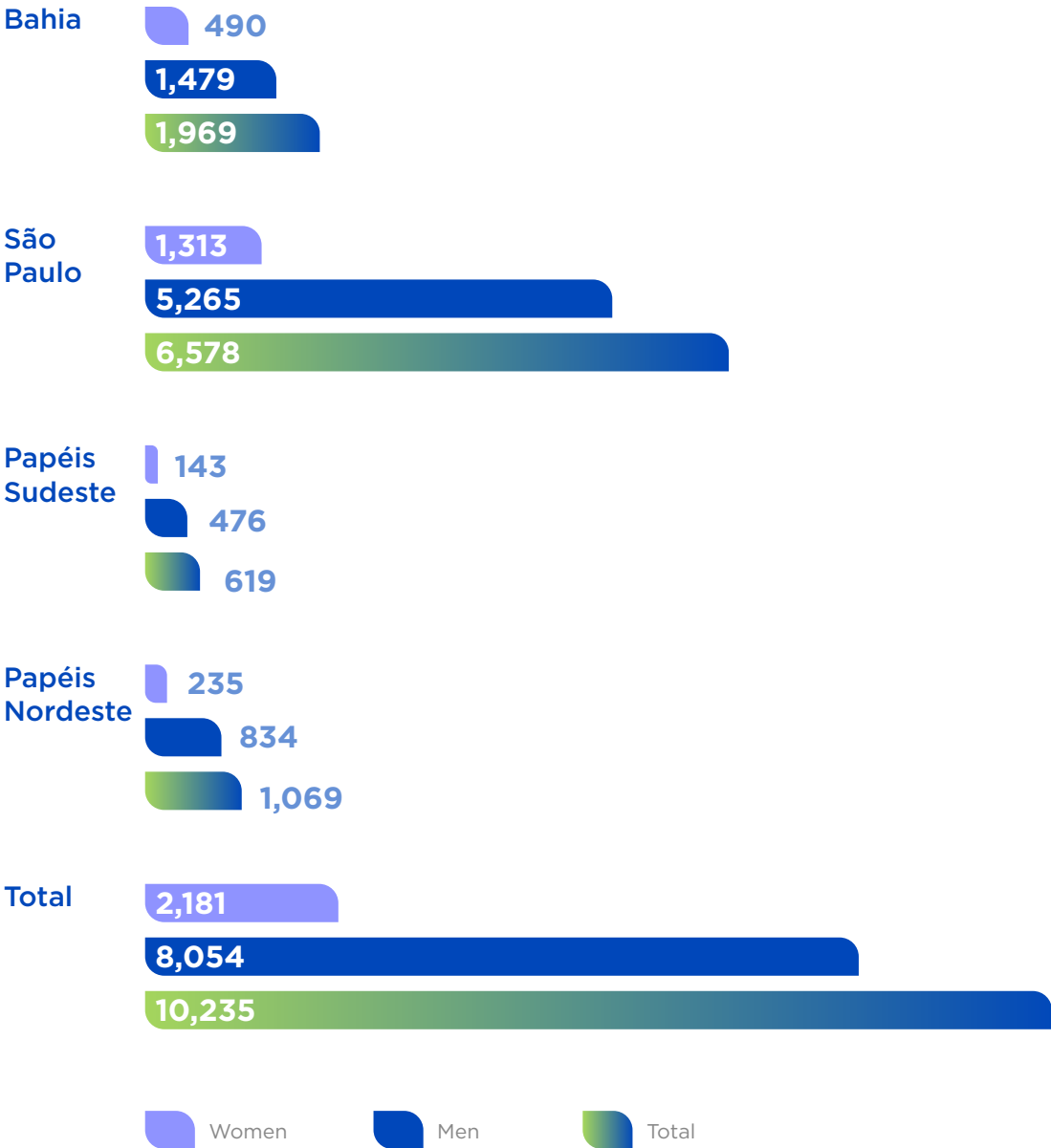
2022



2023



2024



Note 1: Bracell Papéis was established in 2023 and is publishing its first sustainability performance report in this edition, covering data from the year 2024. Learn more about our operations on [page 19](#).
 Note 2: data for our São Paulo and Bahia operations refer to the pulp value chain.
 Note 3: data for Bracell Papéis Nordeste includes all direct employees based in operations located in Feira de Santana (BA), São Gonçalo dos Campos (BA), and Pombos (PE). Bracell Papéis Sudeste includes employees based in Lençóis Paulista (SP) and São Paulo.

Diversity &

Inclusion

GRI 405-1

Greater diversity

In 2024, we made consistent progress in our **Diversity & Inclusion (D&I)** efforts through structured initiatives that helped build an inclusive workplace culture and foster equity across all levels of the organization. Key initiatives carried out during the year are outlined below:

1

Advancing Women in Leadership

- We continued to **track progress on our target to reach 30% women in leadership roles by 2030**, as part of our commitment to gender equity.
- We launched a **Women's Career Acceleration Program**, with 50% of positions reserved as affirmative-action opportunities to help build a strong pipeline of future female leaders.

learn more

Learn more about our women in leadership target on [page 107](#).

2

Harassment Prevention and Response

- Bracell provided training on workplace and sexual harassment for coordinators, managers, and supervisors across the organization.
- We ran an **internal awareness campaign** featuring posters, practical leadership guides, and a refresher on our Code of Conduct.
- **Key Personnel**—including business partners, internal auditors, and HR teams—were trained in investigation techniques to strengthen internal reporting and response mechanisms.

3

Strengthening D&I Governance

- Affinity groups focused on gender, disability, LGBTQIAPN+, generational inclusion, and race were active across our operations in Bahia and São Paulo.
- In São Paulo, we unified our **affinity groups**, which now meet monthly to discuss relevant D&I topics and track progress on inclusion efforts.
- Strategic departments** such as health, communications, and recruitment were also trained to support the effective rollout of D&I strategies.

4

Education, Awareness, and Engagement

We introduced the Bracell Diversity & Inclusion Guide, an internal document that defines key concepts, outlines commitments, and shares good practices to promote inclusion.

- We hosted our first D&I Corporate Week, with expert-led discussions on disability, LGBTQIAPN+, generations, race, and gender.
- We also launched inclusive leadership training focused on respect, belonging, and building diverse, collaborative teams.

5

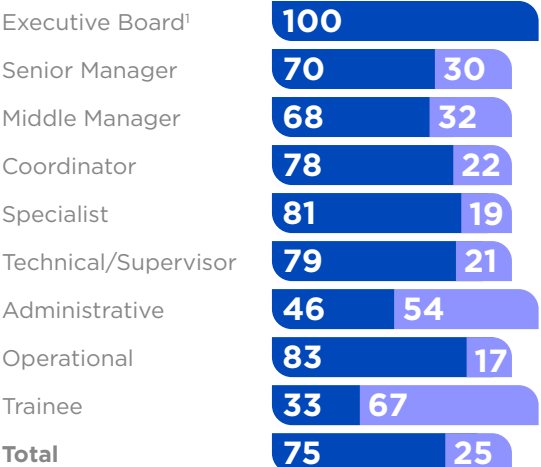
Inclusion Census and Data-Driven Planning

- We conducted a Diversity & Inclusion Census to map inequalities across gender, race, ethnicity, sexual orientation, disability, and other factors.
- The findings informed our **first structured D&I action plan**, set to begin implementation in 2025.

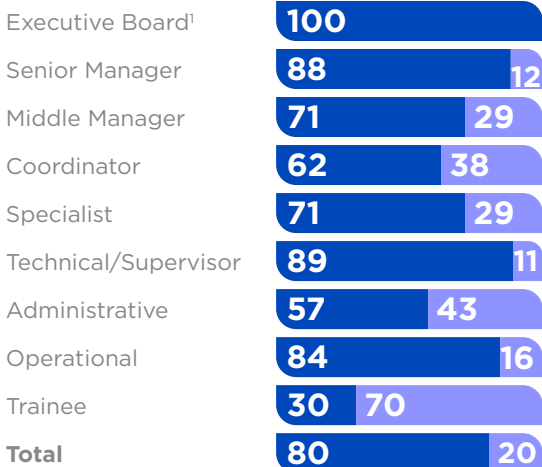
In 2024, we launched a **Diversity & Inclusion Guide** outlining best practices and Bracell’s key commitments to advancing D&I.

Workforce by employee category and gender (%) GRI 405-1

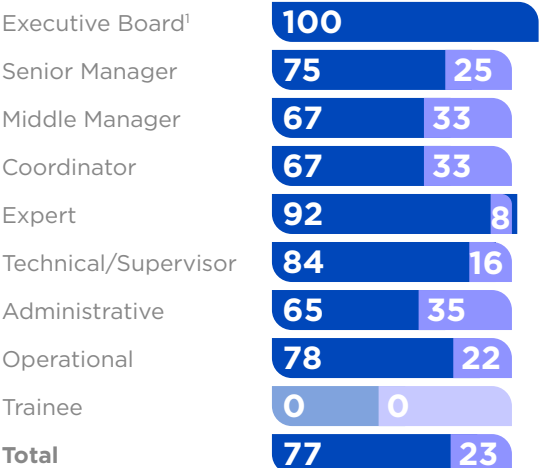
Bahia



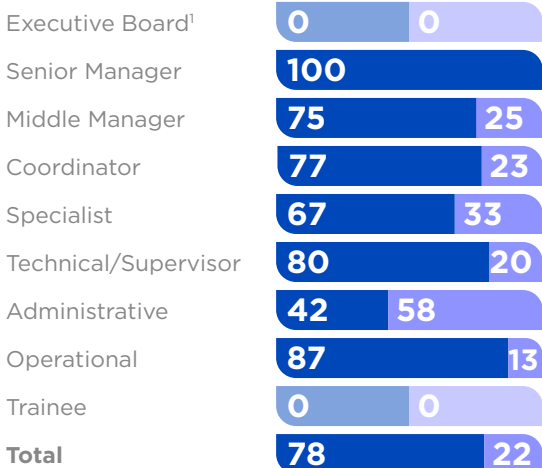
São Paulo



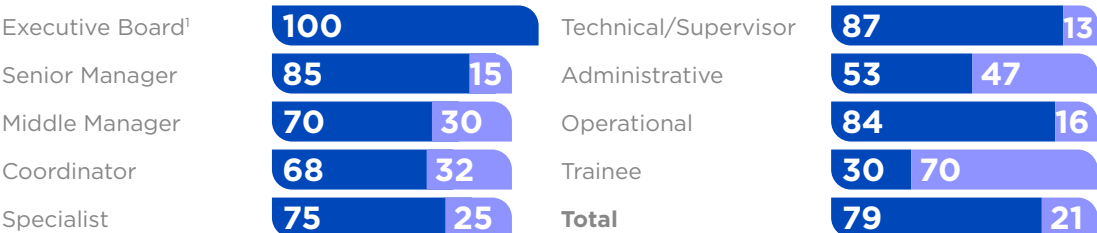
Papéis Sudeste



Papéis Nordeste



Total



Men Women

¹ Including the positions of president, director, and vice president.

Affinity Groups GRI 405-1

Bracell fosters **diversity and inclusion** through **affinity groups** that design initiatives tailored to the unique challenges and contexts of each business unit. These groups play a vital role in raising **awareness and educating our workforce**, helping to build a more **inclusive and equitable** workplace environment. We currently support five active affinity groups: **Race, LGBTQAPN+, People with Disabilities (PwDs), Generations, and Gender**.

In 2024, we reached key milestones in our diversity journey across four focus areas: representation, training, partnerships, and affirmative action:

- **Representation:** we currently have 75 allies at our **Alagoinhas (BA)** and **Camaçari (BA)** sites, actively promoting our D&I agenda.
- **Training and Awareness:** we delivered 27 hours of diversity training, 26 hours of awareness events, and 9 hours of Toolbox Talks, reaching more than 300 employees in our operations.
- **Partnerships and Recognition:** We formed three new partnerships with consulting firms specializing in inclusive

practices. We received the Lilac badge from the Government of Bahia, recognizing gender inclusion initiatives, and we maintained our LGBTQIAPN+ and racial equity certifications.

- **Affirmative Action:** we established our first all-women forestry team, made up of 23 contractors. We also launched another edition of *Indica PcD*, a referrals program for people with disabilities.
- **Development Programs:** we launched an English Language Program for Women and a Development Track for People with Disabilities, both initially rolled out in Bahia and soon to be expanded to São Paulo.

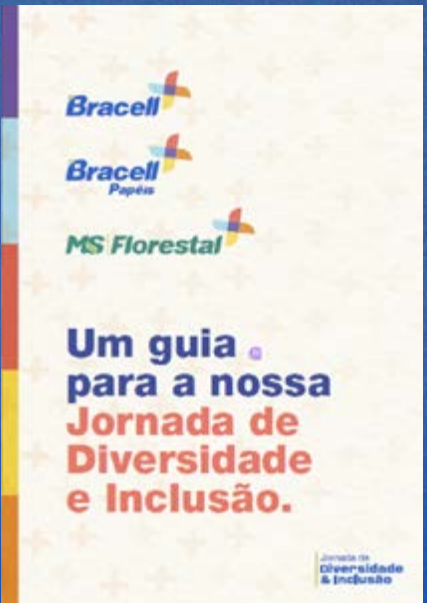
learn more

Visit our [Disclosures Hub](#) for further information under **GRI 3-3 (Management of the material topic: Talent attraction, development, and retention), GRI 2-8, GRI 401-1, GRI 2-19, GRI 2-20, GRI 2-21, GRI 201-3, GRI 202-1, GRI 2-30, GRI 405-1, GRI 405-2, GRI 406-1.**

D&I Guide



In 2024, we published our Diversity & Inclusion Guide, shared with all employees. The Guide provides straightforward, plain-language definitions of key terms and concepts, along with practical tips for cultivating an inclusive mindset and fostering a supportive, psychologically safe workplace.



LEARN MORE

Click here to view our Diversity & Inclusion Guide.

Training and

Development

GRI 404-2

Professional Training

Bracell offers employees a corporate learning program with a structured training matrix that builds both soft and hard skills. Through our knowledge hub—the Bracell Learning Institute—we offer

development tracks tailored to our forestry, industrial, logistics, and supporting functions. Training is delivered in both in-person and virtual formats, covering:

1

Leadership Development:

- *Lidera* and *Líderes em Ação*: our *Lidera* program is designed for coordinators, while *Líderes em Ação* is geared to supervisors—with both aimed at building leadership capabilities.
- Manager Training Program (MTP): delivered across all RGE companies, this program provides a learning track covering strategic topics such as Finance, Supply Chain, and Human Resources, with sessions led by company executives.
- Plant Lead Development: a targeted program that prepares high-performing operators to move into leadership positions.

2

Managerial & Soft Skills Training:

Training to build interpersonal, emotional, and behavioral competencies, helping create a more collaborative and efficient workplace.

3

Gateway Programs:

Tailored development tracks for young apprentices, interns, and trainees to support onboarding, cultural integration, and long-term professional growth. Bracell offers Apprentice, Technical Internship, University Internship, and Trainee programs to support early career development, and maintains a talent pool for business and operational roles.

4

Technical & Role-Specific Training:

Programs designed to ensure compliance with regulations, internal policies, and legal requirements, while fostering employee safety and well-being.

5

Passport Program:

A learning track for employees in mill, forestry, and logistics operations, focused on boosting productivity and enhancing performance.



Bracell

Learning Institute



Bracell operates a dedicated knowledge and training hub called the Bracell Learning Institute (BLI). BLI embodies our commitment to employee development and to fostering a culture of continuous learning. Through the institute, we create opportunities to share knowledge via formal training and development activities—both in person and online—as well as hands-on field training.

LEARN MORE

+

For additional details, see our [Disclosures Hub](#) under GRI 404-1, 404-2, and 404-3.



Employee Health,
Well-Being, and

Safety

GRI 3-3

Integrated Occupational Health and Safety Management System

We operate an **Integrated Occupational Health and Safety Management System** that covers all employees and contractors. The system is operated by Bracell employees who are members of the Specialized Occupational Health and Safety Service (SESMT) and the Specialized Rural Occupational Health and Safety Service (SESTR), as mandated by the regulatory standards of the Brazilian Ministry of Labor. We are fully compliant with labor legislation, International Labour Organization (ILO) conventions, Brazil's Civil Code and Criminal Code, collective bargaining agreements, environmental licensing covenants, labor inspection recommendations, and the guidelines of Brazil's Public Labor Prosecutor's Office (MPT).

Our occupational health and safety management practices include a Risk Management Program (PGR), Rural Occupational Risk Management Program (PGRTR), and Occupational Health Surveillance Program (PCMSO). These programs outline safety standards and procedures applicable to all activities conducted by employees and contractors, in line with our integrated management system policy.

Initiatives align with our Integrated Management System Manual and international standards ISO 9001, ISO 14001, and PEFC.



A Culture of Prevention

GRI 3-3, 403-2, 403-3



At Bracell, safety is a core value, and cultivating a culture of prevention is key to fostering health and well-being in the workplace. Supporting this, our Safe Behavior Program conducts periodic audits across all functions to evaluate employees' accident prevention awareness and mindsets.

We also have an Occupational Health and Safety Management System (OHSMS) in place to identify potential hazards, assess risks, and implement proactive safety measures across both routine and non-routine activities.

Bracell's *Radar* program, meanwhile, outlines clear safety rules that must be followed by all employees and contractors, reinforcing a culture of safety and operational discipline.

To support employee well-being, Bracell provides a range of occupational health services. These include disease prevention initiatives, wellness campaigns, and wellness programs designed to ensure safe working conditions and a high quality of life for all team members.

LEARN MORE

Explore these topics in more detail in our [Disclosures Hub](#) under GRI 3-3 (Management of the material topic: Health, well-being, and occupational safety), GRI 403-1, GRI 403-2, GRI 403-3, GRI 403-4, GRI 403-5, GRI 403-6, GRI 403-7, GRI 403-8, GRI 403-9, GRI 403-10, GRI 401-2, GRI 401-3.

Community Engagement and Local

Development

GRI 3-3

Our Social Practices

Building a close and transparent relationship with local communities is a top priority for Bracell. As part of our core values, we actively engage in initiatives supporting local development.

Our approach to community engagement is based on inputs from stakeholders. As part of this approach, we:

- 1 Keep communities and nearby residents **informed** about planned forestry operations, including **potential risks and both positive and negative impacts**
- 2 **Strengthen communication channels** and **foster ongoing dialogue** between Bracell and neighboring communities
- 3 **Contribute to strengthen initiatives** and increase responsiveness to requests from local communities
- 4 **Identify, prevent, and mitigate potential** social impacts from our operations on neighboring communities
- 5 **Mitigate the risk** of potential community issues that could affect our operations;
- 6 **Address inquiries** and concerns regarding operational aspects and the company as a whole.



Bracell
Social

GRI 203-1, 203-2, 3-3

Social Investment

We invest in structuring community initiatives in the regions where we operate through Bracell Social. Our social investment policy embodies Bracell's commitment to

creating positive social value while respecting local customs, traditions, and culture, and building strong, trust-based relationships with the communities where we operate.

Through Bracell Social, we develop enabling projects in the areas of education, entrepreneurship, and civic engagement:



Education: we help to improve educational practices in public schools. These programs foster environmental civics, develop leadership skills, and support the professional development of adolescents and young adults, underscoring our belief in the transformational role of education.



Empowerment: Bracell works to strengthen production collectives and social enterprises by creating learning environments focused on generating employment and income opportunities. We invest in training and technical assistance, develop community leaders, promote cooperativism, and facilitate social participation mechanisms including public calls for projects and public-private partnerships.



Estar Bem: we provide free access to leisure, cultural activities, health services, and civics initiatives for local residents.

learn more

Discover more about our Bracell 2030 goals for women's entrepreneurship, income generation, and education on page 88.

Number of projects (Bracell Social)

	Empowerment	Education	Estar Bem
2022 total 31	8	7	16
2023 total 39	10	11	18
2024 total 34	9	10	15

People reached (Bracell)

	Empowerment	Education	Estar Bem
2022 121,840	15,616	34,509	71,715
2023 164,008	26,012	72,764	65,232
2024 152,138	15,748	107,792	28,600

Investment (R\$)

	Empowerment	Education	Estar Bem
2022 4,434,934.23	1,818,182.57	1,596,974.19	1,019,777.47
2023 9,039,549.32	2,712,761.37	3,755,301.30	2,571,486.65
2024 8,471,107.89	2,937,657.07	3,856,191.24	1,677,259.58

Bracell Social Center



On November 13, 2024, we opened the Bracell Social Center: a dedicated space for hosting community initiatives and welcoming Bracell stakeholders. Located in Lençóis Paulista (São Paulo), the facility also hosts community training and empowerment initiatives.

Starting in 2025, in addition to ongoing social programs, the Bracell Social Center will host our *Mãos Dadas* volunteer program and a full calendar of workshops, training, and discussions on topics such as Bracell’s social impact pillars and the United Nations 2030 Agenda.



LEARN MORE

"We want the Bracell Social Center to inspire and contribute to building a future with greater opportunity and quality of life. This initiative delivers on our commitment to social transformation and strengthening the communities where we operate."

Manoel Browne
Head of Institutional Relations

Learn more about our training and development disclosures in Bracell’s Disclosures Hub under GRI 203-1, GRI 203-2, GRI 413-1, GRI 411-1, GRI 413-2.

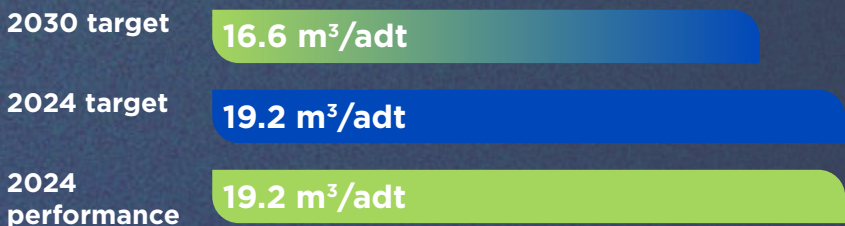
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Driving Sustainable Growth

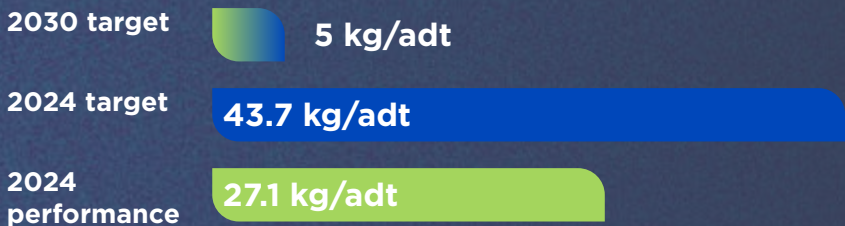
Pillar: Driving Sustainable Growth



47% reduction in water withdrawals in mill operations



90% reduction in Class II industrial waste sent to landfills



97% chemical recovery rate in our operations



Efficient and Sustainable Production

Our products are made from eucalyptus pulp, a natural, renewable biodegradable polymer produced from eucalyptus pulpwood grown in Bracell-managed plantations or sourced from controlled plantations, always in accordance with rigorous forest certification standards ([Learn more about our certifications on page 41](#)).

We make three types of pulp: **kraft bleached eucalyptus pulp, rayon-grade dissolving pulp and specialty-grade pulp**, which are used in the manufacture of a range of products. Bracell also operates in the consumer-goods sector, with a strong market share of domestic toilet paper, paper towel, napkin and diaper production.

Bracell uses cutting-edge technology that enhances operational efficiency and ensures high product quality. As part of our commitment to innovation and sustainability, we follow best

practices aligned with current legislation, certification standards, and regulatory requirements, along with strict internal protocols for social and environmental management. Our two flexible production lines at Lençóis Paulista (SP) were designed in accordance with the Best Available Techniques (BAT) Reference Document for the Production of Pulp, Paper and Board ([learn more about our sustainable manufacturing differentiators here](#)).

In 2024, these investments yielded positive dividends. The data collected shows we met all three annual targets in the Sustainable Growth dimension of our Bracell 2030 roadmap. As one of the highlights from the year, we successfully reduced the volume of industrial waste sent to landfills per metric ton of product. Compared to a target of 43.7 kg/adt, we achieved a reduction to 27.1 kg/adt, exceeding our target by roughly 38%.



We remain committed to **reducing** water consumption per ton of pulp produced and **minimizing landfilling of industrial waste**, as part of the Bracell 2030 targets and commitments.

Water Savings

Bracell has set a target to reduce water consumption per metric ton of pulp produced by 47% to 16.6 m³/adt by 2030. In 2024, we met the year's target with a consumption of 19.2 m³/adt, a 38.2% reduction compared to our 2020 baseline of 31.1 m³/adt.

Less Waste Sent to Landfills

We are also working to reduce the volume of industrial waste sent to landfills per metric ton of pulp by 90%. In 2024, we sent 27.1 kg/adt to landfills, significantly surpassing our annual target of 43.7 kg/adt.

Efficiency in Chemical Recovery

With a focus on production efficiency and reducing waste in the pulp manufacturing process, we set a target to achieve 97% recovery of lime and caustic soda by 2030. In 2024, we reached 96.2%, meeting the target set for the year.

learn more

Read more about our
Bracell 2030 targets and
commitments on [page 86](#).

Our facilities use closed-loop systems that enable **water reuse** across the production cycle.



Water

Stewardship

GRI 3-3

Responsible Water Withdrawals and Discharge

Water is vital to human well-being, the conservation of natural ecosystems and biodiversity, and to Bracell’s operations. We are committed to **preserving water resources by protecting springs and riparian vegetation** in our areas of operation. We have set a target to reduce water consumption per metric ton of product by 47% by 2030. This commitment underscores the importance we attach to water stewardship in our operations.

Our water stewardship practices are aimed at minimizing water use in pulp manufacturing, preserving water resources and watersheds, improving operational water efficiency,

mitigating water availability risks and impacts, and optimizing effluent management practices. These policies and procedures comply with the requirements of ISO 14001, ISO 9001, Forestry Certification Endorsement Program (PEFC) certification requirements, applicable Brazilian legislation, regulatory standards and international sustainability management protocols.

In 2024, **we met the Bracell 2030** interim target for the year, reaching

19.2 m³/adt.

Technology for Assessing Water Availability



Bracell continuously conducts climate zoning studies using historical weather data—such as rainfall levels, temperature, and latitude—to identify areas with higher water availability for eucalyptus plantations. This data informs tailored technical recommendations by region, including clone selection and fertilization practices. Learn more in the Climate Action chapter on [page 189](#).

Water Management in our Mills



Lençóis Paulista Mill (SP) — pulp



Water Withdrawal

Water is sourced from six deep cased wells and from the Tietê River at an intake located 22 km from the plant. The site also has a system to collect rainwater. We additionally operate groundwater withdrawal systems at two nurseries in São Paulo: one in Lençóis Paulista and another in Avaí.



Water Monitoring

Our Water Resource Monitoring Plan tracks withdrawal volumes to ensure compliance with permit requirements and licensing covenants issued by environmental authorities.



Water Reuse

We reuse water throughout the production process to minimize freshwater withdrawal.



Effluent Treatment

Effluent is discharged into the Tietê River after undergoing a three-stage treatment process: fiber removal, organic matter treatment, and chemical flotation. This system maintains an organic load removal efficiency of 98%, as measured by Biochemical Oxygen Demand (BOD)—exceeding the requirements of federal regulations. In addition, approximately 92% of water withdrawals are returned to the Tietê River as treated effluent.



Camaçari Mill (BA) — pulp



Water Withdrawal

Water is pumped from 11 deep cased wells located near the facility, within the Recôncavo Norte watershed. All wells are owned by Bracell and operate under permits granted by Inema, the Bahia state environmental regulator. The wells are continuously monitored for flow rate, water table levels, and water quality in accordance with applicable regulations.



Water Monitoring

Water management in the Camaçari Industrial Park is overseen by an independent firm that monitors both water availability and quality. The district's Water Resources Management Plan includes risk assessments and action plans for 100% of tenants.



Water Reuse

We reuse water throughout the production process to minimize freshwater withdrawal.



Effluent Treatment

Wastewater is treated internally through an on-site sedimentation system. The organic effluent is then sent to the local utility, which performs secondary biological treatment (activated sludge), ensuring more than 97% removal of organic load. The treated effluent is then discharged into the ocean via a dedicated outfall pipeline.



Feira de Santana Mill (BA) — *Tissue*



Water withdrawal

Water is sourced from 14 underground wells, all under permits awarded by the state environmental regulator (Inema).



Water Monitoring

The wells are continuously monitored for flow rate, water table levels, and Hydro accordance with regulations.



Water Reuse

Wastewater is recovered after treatment and recycled into the process, significantly reducing the need for fresh water withdrawals. This facility is designed as a fully closed loop, with 100% of process water recycled.



Wastewater Treatment

Post-process water is collected and treated internally, then sent to the local utility for secondary treatment prior to discharge via ocean outfall.

Regarding our approach to managing significant water-related impacts caused by suppliers, Bracell assesses practices for managing social and environmental aspects among business partners directly involved in our operations. We do not assess the management of sustainability topics across our broader supplier chain. No water-related impacts caused by suppliers were reported or identified in our operations.



Lençóis Paulista Mill (SP) — *Tissue*



Water withdrawal

Water is withdrawn from the same sources as for the pulp mill: six deep cased wells and from the Tietê River at an intake located 22 km from the plant.



Water Monitoring

Our Water Resource Monitoring Plan tracks withdrawal volumes to ensure compliance with permit requirements and licensing covenants issued by environmental authorities.



Water Reuse

Water recycling is one of this facility's key differentiators. Because it is located next to and integrated with the pulp mill—where the raw material for tissue production is made—the facility uses the water contained in the pulp itself, which is transported from one unit to the other through a pipeline.

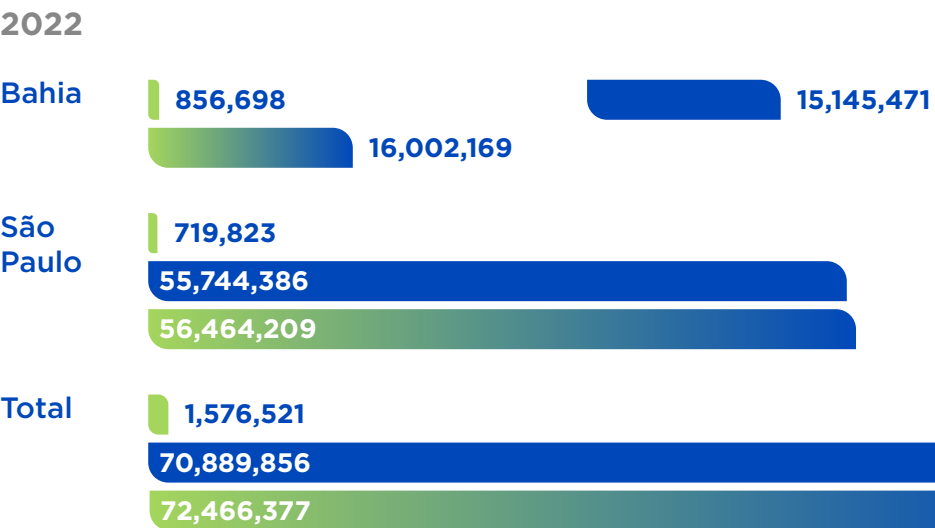
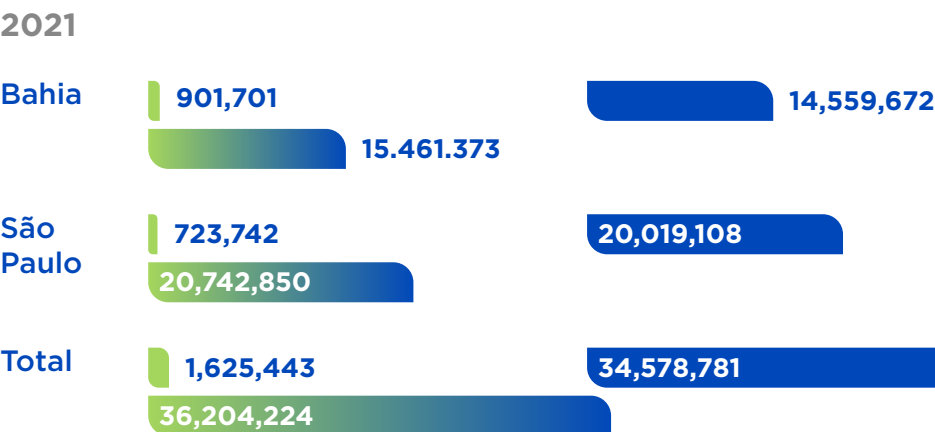
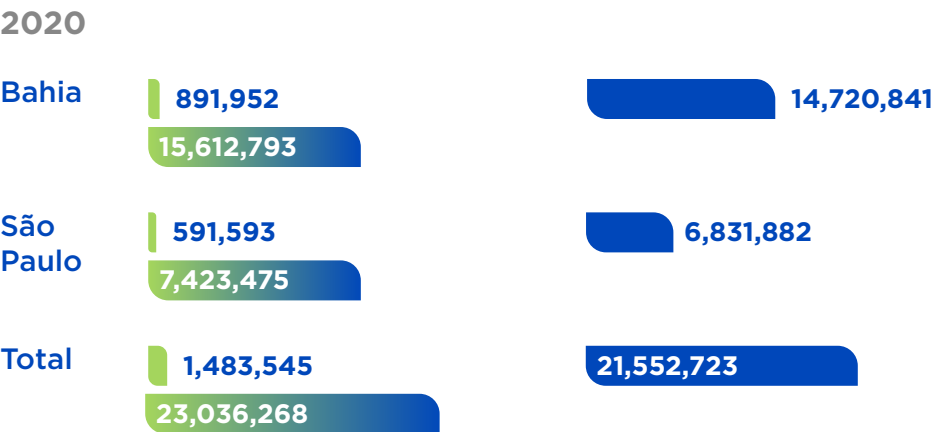


Wastewater Treatment

We operate a Wastewater Treatment Plant (WWTP) that centralizes the treatment of all effluents generated by the pulp and paper operations at the site. Effluents are discharged into the Tietê River after undergoing a three-stage treatment process.

Bracell is the first company in the pulp industry in São Paulo to implement tertiary effluent treatment.

Pulp production: total water withdrawal by operation (m³) GRI 303-3

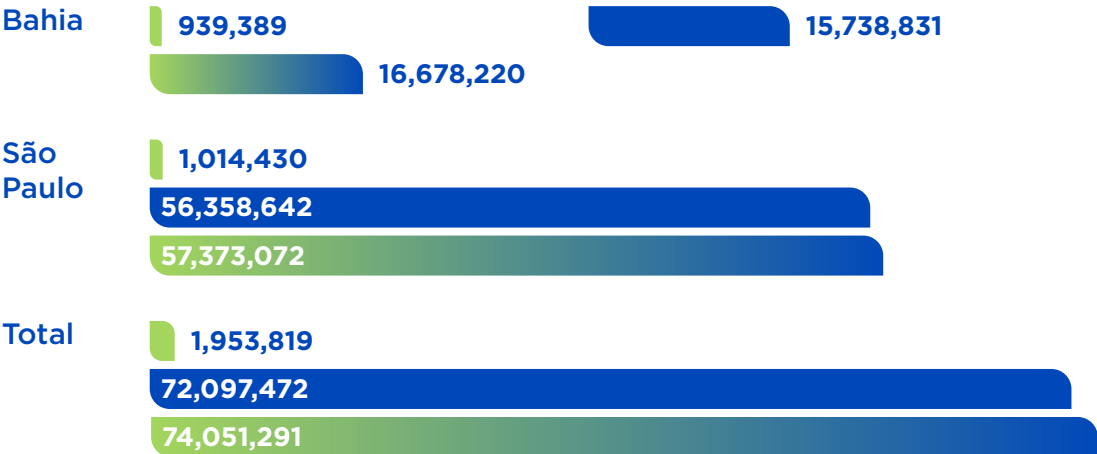


Forestry

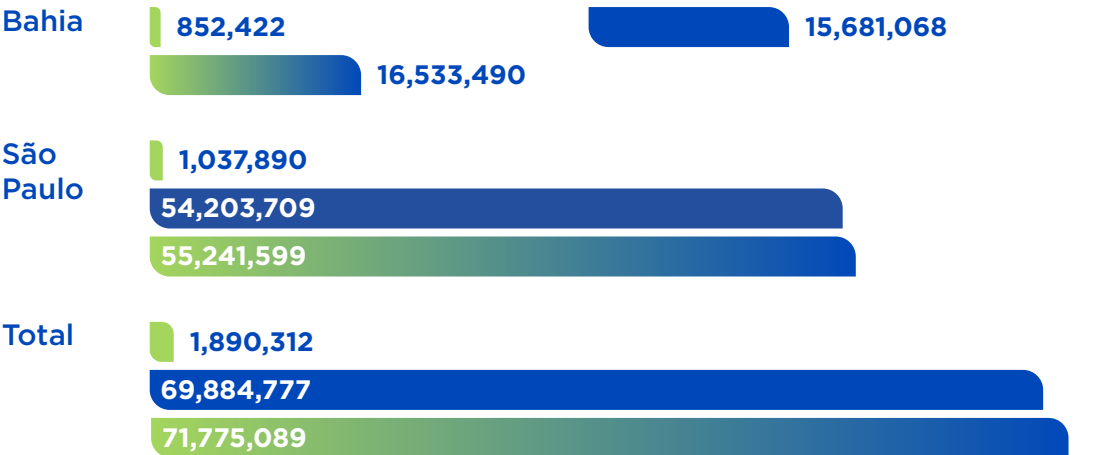
Mills

Total

2023



2024



Paper production: total water withdrawal by operation (m³) GRI 303-3

2024



Note: Bracell Papéis was established in 2023 and is reporting its environmental performance for the first time, with data from 2024. Bracell Papéis' São Paulo facility does not directly withdraw surface or groundwater; instead, it uses water supplied by Bracell's pulp production site in Lençóis Paulista. The water withdrawal volume for the Papéis Nordeste operation refers to the mill in Feira de Santana (BA). At the São Gonçalo dos Campos (BA) and Pombos (PE) sites, there are no water withdrawals as these facilities use dry processing.



Risk

Management

Reduce, Reuse and Recycle

Our value-from-waste procedures align with the Brazilian Waste Management Policy (PNRS). We ensure compliance at all times with our Environmental Policy and Waste Management Plan (PGRS). **Waste is among the KPIs that are tracked within our Integrated Management System.** This KPI is regularly communicated to employees throughout the year to track performance.



Bracell's approach to waste management is based on three circular bioeconomy principles:

- 1 Reduce waste volumes generated in the process
- 2 Re-utilize materials whenever possible
- 3 Recycle waste in partnership with third parties where waste reduction or reuse is not possible



Reducing Industrial Waste

In 2024, Bracell significantly reduced the volume of industrial waste sent to landfills, driven by the expansion of circular economy initiatives. A key highlight from the year was the approval of new external partners at the Lençóis Paulista (SP) site to repurpose industrial waste: 57% of this waste is now being sent for external processing, such as composting and agricultural use.

Wet biological sludge previously sent to landfills has been fully redirected to organic fertilizer production through composting, eliminating landfilling. Primary sludge is now used in the manufacturing of paper-based

products. Calcitic waste has been fully redirected to the production of agricultural soil amendments, following audits that confirmed compliance with legal and environmental requirements. In addition, we operate gasification systems that use surplus biomass from the wood chip preparation stage to produce syngas (fuel) for use in lime kilns.

This not only helps lower our environmental impact but also strengthens local supply chains by repurposing materials once disposed of as waste. This has significantly supported progress toward our 2030 environmental targets.

In 2024, we surpassed our annual target, **reaching 27.1 kg/adt** of waste sent to landfills per metric ton of pulp produced. This result significantly outperformed our annual target of 43.7 kg/adt.

Chemical Recovery

As part of Bracell 2030, **we have set a target to reach 97% recovery of lime and caustic soda** in pulp production. We ended 2024 close to our target, achieving 96.2%.

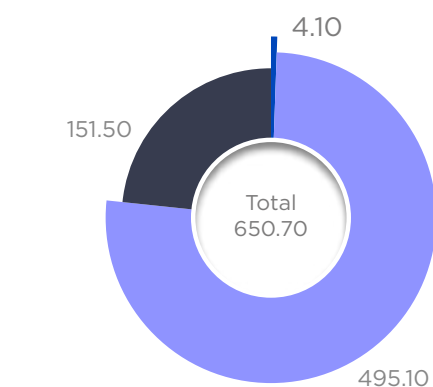
To achieve this goal and make our operation even more self-sustaining, lime mud generated in the chemical recovery process is re-utilized in the lime kiln, which also helps to reduce the amount of inputs consumed in this process.

We have also invested in recovery boilers. These boilers burn the black liquor generated during pulp washing. The combustion produces steam—without greenhouse gas emissions—which is converted into electricity to power plant operations.

This process also helps reduce waste sent to landfills. In 2024, we sent 98,961.37 metric tons of waste to landfills—well below the 271,553.87 metric tons recorded in the previous cycle.

Waste volume by disposal method in 2024 – tissue operations (metric tons) GRI 306-4, GRI 306-5

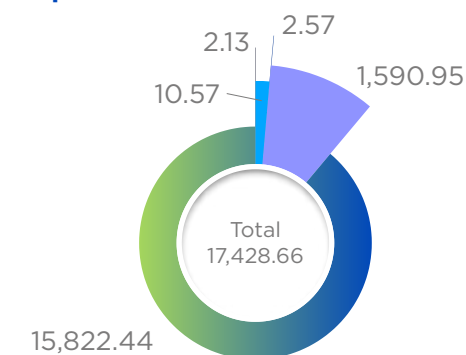
Papéis Sudeste*



*No waste was sent to landfills or for composting, reuse or other methods of disposal.

Landfilling
Composting
Co-processing
Recycling
Energy recovery
Reuse
Other**
Rerefining

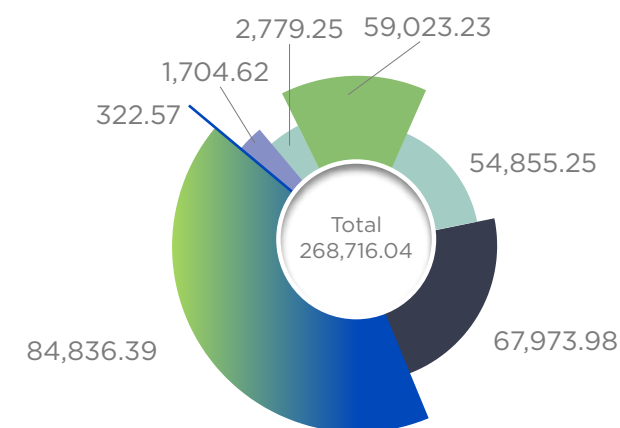
Papéis Nordeste



*No composting or reuse was reported

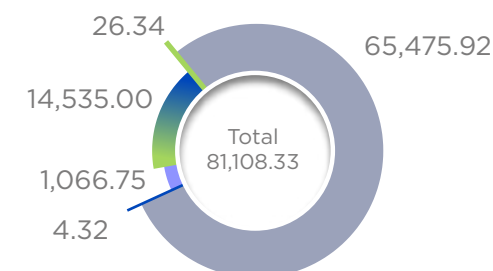
Waste volume by disposal type in 2024 – pulp operations (metric tons) GRI 306-4, GRI 306-5

Industrial waste – São Paulo



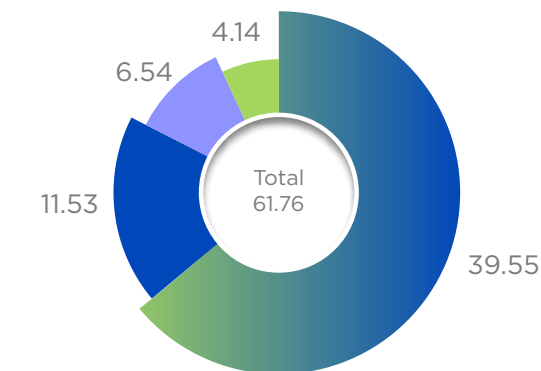
*No waste was repurposed at our São Paulo mill

Industrial waste – Bahia*



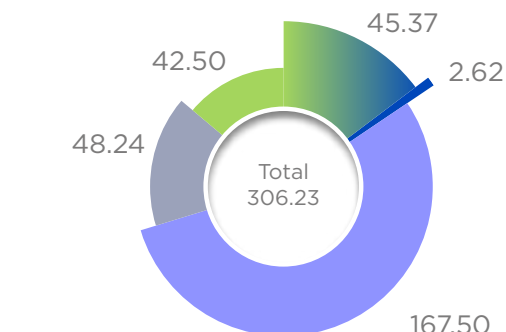
*There was no composting or energy recovery.

Forestry waste in São Paulo*



*There was no composting, energy recovery, or reuse.

Forestry waste in Bahia*



*There was no composting or energy recovery.

Landfilling
Composting
Co-processing
Recycling
Energy recovery
Reuse
Other**

** Other disposal methods:
São Paulo: Mill – re-refining, wastewater treatment, autoclaving, agricultural use, sorting and storage. Bahia: Mill – oil re-refining and autoclaving; Forestry – reverse logistics.

learn more

Find out more in our [Disclosures Hub](#) under GRI 306-1, GRI 306-2, GRI 306-3, GRI 306-4, GRI 306-5.



Risk

Management

GRI 2-6, 3-3, 204-1

Social and Environmental Criteria for Partner Selection

In 2024, our pulp and paper operations in São Paulo had a total of 1,914 registered and active suppliers. In Bahia, we worked with 9,631 suppliers for pulp production and 192 for Bracell Papéis Nordeste, for a total of 9,823 in the region.

We sourced 91% of our supplier spend locally in São Paulo—for both Bracell and Bracell Papéis operations—and 61% in Bahia, for Bracell operations. At Bracell Papéis Nordeste, 53.15% of supplier spend was local—for operations in Feira de Santana (BA), São Gonçalo dos Campos (BA), and Pombos (PE).

Our suppliers include contractors as well as manufacturers of raw materials and equipment. Across the entire supply chain, we conduct assessments on management practices and social and environmental procedures. These assessments are conducted prior to onboarding

and throughout the duration of supplier relationships.

At all operating sites, we apply **social and environmental criteria in screening and selecting suppliers**. For contractors and pulpwood suppliers, we assess compliance with environmental regulations, human rights, labor laws, and protections for children and adolescents, including the prohibition of forced and child labor. Raw material suppliers are evaluated according to sector-specific legislation, including relevant environmental standards.

At Bracell, supplier onboarding and management are governed by corporate policies on sustainability and human rights management, which in turn draw guidance from applicable laws and regulations and international sustainability standards. Our related policies are publicly available [on the Bracell website](#).

91%
local supplier spend
in the Southeast region

9,823
registered partners
with active contracts
in 2024 in the Northeast.

Supplier Management Processes

GRI 308-1, 308-2, 408-1, 409-1

Third-party Due Diligence

Before onboarding, suppliers undergo due diligence in line with Bracell's Third-Party Due Diligence, Supplier Qualification and Evaluation, Sustainability, and Human Rights policies.

Environmental compliance screening

As part of the onboarding and screening process, suppliers acknowledge and agree to follow Bracell's Procurement Code of Ethics. We routinely assess risks and impacts related to our operations' direct suppliers.

Social compliance screening

Social requirements and risks are assessed as part of our approach to managing contractors operating directly at our facilities. The contractor management process includes verifying compliance with labor rights such as compensation, collective bargaining agreements, training, occupational health and safety, among other mandatory requirements for managing social risks. This process is managed through a Contract Management System, where

contract documents are stored and compliance with legal requirements is verified.

Supplier Screening and Assessment

We assess suppliers' capability to deliver products and services in accordance with legal, certification, and technical standards.

Audits

We perform audits on all operations employing contractors.



learn more

Learn more in our [Disclosures Hub](#) under GRI 3-3 (Management of the material topic: Supply Chain Management), GRI 204-1, GRI 308-1, GRI 308-2, GRI 414-1, GRI 308-2, GRI 407-1, GRI 408-1, GRI 409-1.



6

Sustainable
Landscapes and
Biodiversity

Pillar: Sustainable Landscapes and Biodiversity



230,000 hectares of native forests preserved



Protection of endemic and threatened species

2030 target	Monitor natural habitats and endemic threatened species in priority areas for biodiversity conservation
2024 target	Complete the following steps: 1) Host a workshop with experts to establish project assumptions 2) Identify Bracell's priority areas for conservation 3) Define baseline areas within the surrounding landscape
2024 performance	 Met

Support for the reintroduction of animals into the wild

2030 target	Double the number of Bracell-owned areas certified by environmental regulators for releasing wild animals in native forests from three to six or more
2024 target	Reach a total of four certified wildlife release sites
2024 performance	 Met

Scientific research on biodiversity conservation

2030 target	Support ten research projects on biodiversity conservation
2024 target	Eight projects
2024 performance	Eight projects

Commitment to Preservation

Protecting forests and biodiversity is intrinsic to our business. In our forestry operations, we implement targeted **strategies to protect natural ecosystems and biodiversity** within the **Caatinga, Cerrado, and Atlantic Forest** biomes hosting our operations.

Our **pulp is produced from certified and controlled eucalyptus pulpwood**, grown responsibly on plantations interspersed with **native vegetation areas reserved for conservation**—promoting ecological balance and supporting local biodiversity through a mosaic landscape management model.

To ensure our practices are both **sustainable** and evidence-based, we use **official data from Brazil's Rural Environmental Registry (CAR) to georeference all Bracell-managed farms**. In our **geographic information system**, we intersect this data with other data sets,

such as those compiled in our **protected areas and buffer zones**.

This data informs **property-specific operational guidelines** addressing **environmental and legal restrictions** outlined in **management plans**, and ensures our operations align with the highest standards in environmental stewardship and sustainable land use.

As part of our **Bracell 2030** commitments, we strive to **amplify our positive impact on biodiversity and landscapes**. Our goal is to help conserve **230,000 hectares of native forests on public land by 2025, in partnership with the state governments where we operate**. At yearend 2024, **we reached 186,000 hectares of conserved land** across the states of **São Paulo, Bahia, and Mato Grosso do Sul**.

In addition to preserving natural ecosystems and protecting biodiversity, we also invest **in biodiversity conservation research**. In 2024, we supported **eight research projects** on environmental preservation, fully achieving our annual target.

Our target remains to conserve

230,000

hectares of native forest by 2025.

Learn more

Read more in our Disclosures Hub under GRI 304-1.

We are also committed to **wildlife reintroduction**. By 2030, we aim to **double the number of certified sites for the release of wild animals** into the wild. We ended 2024 with **four certified release sites in the Northeast** of Brazil, including in the **Atlantic Forest** and, most recently, in the **Caatinga** biome.

Certified release sites in Northeast Brazil

Atlantic Forest (certified in 2022):

- Fazenda Cachoeira (Entre Rios, Bahia)
- Fazenda Sergipe (Jandaíra, Bahia)
- RPPN Lontra (Entre Rios, Bahia)

Caatinga (certified in 2024):

- Fazenda Raiz (Água Fria, Bahia)



Fazenda Raiz is the first **certified site within the Caatinga biome**. In 2024 alone, a total of 476 wild animals were released in the four certified sites managed by Bracell, as part of our commitment to protecting native species and restoring ecosystems in the regions where we operate.

2030 Biodiversity Monitoring Plan



Beyond Bracell's biodiversity monitoring plan, we also implemented the first year of our action plan to protect endemic and endangered species, with initiatives carried out in our priority conservation areas. In 2024:

1

We hosted a workshop with experts to establish project assumptions

2

We identified priority conservation areas in the municipalities of Bauru (SP), Brasilândia (MS) and Esplanada (BA)

3

We designated benchmark landscape areas to inform the development of an annual monitoring plan for natural habitats and endemic species—located in Gália (SP), Três Lagoas (MS), and Itanagra (BA).

One-for-One Commitment

LEARN MORE

Learn more about our biodiversity disclosures in Bracell's [Disclosures Hub](#) under GRI 404-1.

New Protected Areas in 2024

A first-of-its-kind initiative in Brazil's pulp industry, Bracell's **One-for-One Commitment** aims to **preserve one hectare of native vegetation for every hectare of eucalyptus planted by 2025**.

In 2024, we reached **97% of that target**, with **0.97 hectares of native forest preserved for every hectare of eucalyptus plantations**. This data was **independently verified by a qualified third-party organization**.

learn more

See the [independent assurance statement](#) on [page 220](#)

As a **long-term** commitment, the area reserved for conservation will continue to grow in step with Bracell's plantation expansion—even beyond 2025—ensuring a consistent balance between production and environmental preservation.

This initiative also directly supports our broader goal of **conserving 230,000 hectares of native forests by 2025** under the **Sustainable Landscapes and Biodiversity** pillar of **Bracell 2030**. In 2024, we committed to the protection and conservation of 186,000 hectares of public lands across the states of São Paulo, Bahia, and Mato Grosso do Sul, and we exceeded this target.

0.97
hectares of native forest preserved for each hectare of planted eucalyptus forests in 2024.

186,000
hectares of public land designated for conservation as part of Bracell 2030's Biodiversity and Landscapes targets.

10-year agreements with the governments of São Paulo and Mato Grosso do Sul to implement structural initiatives as part of our One-for-One Commitment.

2024 Highlights

As part of our **One-for-One Commitment**, we established new partnerships in 2024, expanding the reach of the initiative and strengthening structural conservation initiatives in different regions of the country.

A key milestone was a **10-year agreement signed with the Government of Mato Grosso do Sul**, covering preservation and conservation activities in four major state conservation sites: **Nascentes do Rio Taquari, Pantanal do Rio Negro, Prosa, and Matas dos Segredos**.

We also made progress in **negotiations with the Government of Bahia** to help preserve forest areas in the **Pituaçu Park**, in the Salvador Metropolitan Region.

In the state of **São Paulo**, our One-for-One Commitment already covers **more than 69,000 hectares**, including **11 conservation sites**, such as state parks, ecological stations, and wildlife refuges. These agreements are implemented in partnership with the **São Paulo Forest Foundation** under a long-term conservation plan.

Initiatives as part of our One-for-One Commitment are implemented in collaboration with local partners, based on a structured impact strategy focused on five main levers:



- 1 Territorial protection and forest fire prevention
- 2 Biodiversity restoration, monitoring, and management
- 3 Environmental education and training
- 4 Local stewardship programs
- 5 Technological innovation applied to conservation



One-for-One Commitment Initiatives in 2024

Land Stewardship and Forest Fire Prevention and Response

Fire prevention

Built firebreaks and service roads to support the management of state parks and ecological reserves.

Created natural firebreaks to contain wildfires and minimize spread.

Improved access to conservation areas through road building, facilitating both area management and rapid response to fire outbreaks.

Donated firefighting tools such as motor pumps to trained fire response teams in parks and ecological stations.



Biodiversity Restoration, Monitoring, and Management

Primate crossing construction

Installed a wildlife crossing at the Barreiro Rico Ecological Station in Anhembi (SP).

The crossing reconnects areas traversed by a municipal road, enabling safe crossing for primates and reducing the risk of roadkill.

Five endangered primate species benefit from the structure, including the southern muriqui—the largest primate in the Americas and a critically endangered species.



Acoustic wildlife monitoring

Deployed acoustic monitoring systems in Carlos Botelho State Park and Nascentes do Paranapanema (SP)—currently in progress.

These systems gather vital data on environmental factors influencing wildlife patterns, including hydrological cycles.

Using acoustic data to inform conservation in state parks is a first in wildlife management and protection practices in Brazil.

Environmental Education and Training

Firefighting

Trained fire responders in wildfire prevention and response.

Provided capacity-building for staff at conservation sites in the states of São Paulo and Mato Grosso do Sul.

Seed collection

Provided specialized training in native seed collection.

Trained the team at Bauru Botanical Garden (SP) to support seed collection and seedling propagation in a flora conservation and restoration project.



Technological Innovation

Controlling invasive species

Geospatial analysis using deep learning tools to support invasive tree species (Pinus spp.) control efforts at the Itapeva Ecological Station (SP).

Managing invasive species is crucial for protecting biodiversity, preserving local ecosystems, and preventing exotic species from harming native plant development



Fire monitoring systems

Three conservation sites in São Paulo were added to Bracell's regional wildfire monitoring system.

These areas are monitored through a central control hub equipped with 360° cameras at Bracell's forestry base and a 24/7 hotline that enables local communities to report fire outbreaks.

Protected Areas under our One-for-One Commitment

State	Protected Area	Municipality	Year area included in the Commitment
São Paulo	Sebastião Aleixo Ecological Station	Bauru	2022
	Caetetus Ecological Station	Gália	2022
	Santa Bárbara Ecological Station	Águas de Santa Bárbara	2022
	Barreiro Rico Ecological Station	Anhembi	2022
	Aimorés Wildlife Refuge, Botanical Garden	Bauru	2022
	Carlos Botelho State Park	São Miguel Arcanjo	2022
	Nascentes do Paranapanema State Park	Capão Bonito	2022
	Avaré Ecological Station	Avaré	2023
	Paranapanema Ecological Station	Paranapanema	2023
	Angatuba Ecological Station	Angatuba	2023
Mato Grosso do Sul	Itapeva Ecological Station	Itapeva	2023
	Nascentes do Rio Taquari State Park	Alcinópolis	2024
	Prosa State Park	Campo Grande	2023
	Matas do Segredo State Park	Campo Grande	2023
	Pombo Municipal Natural Park	Três Lagoas	2023
Bahia	Pantanal do Rio Negro State Park	Aquidauana	2024
	Pituaçu Metropolitan Park	Salvador	2023

Expressão de Ecologia Award



Bracell was honored with the Green Wave Trophy after winning the Natural Resources Conservation category at the *Expressão de Ecologia Awards*, in recognition of our One-for-One Commitment. This award, organized by *Editora Expressão*, is the longest-standing environmental accolade in Brazil and is officially recognized by the Ministry of the Environment.



Voluntary Commitments to Support Biodiversity and

Landscapes

Key Voluntary Commitments

Bracell actively participates in voluntary initiatives that reflect our commitment to **biodiversity conservation, ecosystem restoration, and sustainable landscape management** across the areas where we operate.

Taskforce on Nature-related Financial Disclosures (TNFD)

Since 2022, we have adopted the TNFD recommendations through the “Action for Nature” Platform led by the Brazilian Business Council for Sustainable Development (CEBDS). This initiative promotes greater **transparency, accountability, and improved governance of natural resources** in corporate operations.

São Paulo Forest Foundation

We have signed a ten-year sponsorship agreement with Fundação Florestal, a foundation linked to the São Paulo State Environmental Department, to support conservation and environmental protection initiatives in areas containing significant Atlantic Forest and *Cerrado* formations.

Brazilian Business Council for Sustainable Development (CEBDS)

As members of CEBDS, we have committed to **integrating biodiversity as a strategic pillar supporting corporate sustainability**. See our CEBDS-aligned targets [here](#)

Cooperation Agreement with the Institute for the Environment and Water Resources (INEMA) – Bahia

Partnership to develop **biodiversity protection initiatives in the Atlantic Forest**, aligned with the state's conservation efforts.

Mato Grosso do Sul Institute for the Environment (IMASUL)

We signed a ten-year technical cooperation agreement with IMASUL for the **conservation of native vegetation and the strengthening of environmental initiatives** in the state.

Atlantic Forest-Friendly Company

We joined an initiative led by the **National Council of the Atlantic Forest Biosphere Reserve (RBMA)** and were recognized as a contributor to the conservation and sustainable use of the biome.

Atlantic Forest Restoration Pact

A voluntary initiative aimed at restoring 15 million hectares by 2050. We actively support this initiative through forest restoration projects.

SOS Mata Atlântica

In collaboration with this NGO, we carried out **restoration initiatives on 30 hectares of protected areas and legal reserves**, supporting the development **of wildlife corridors, biodiversity protection, and improved water quality.**





Biodiversity and Ecosystem

Management

GRI 3-3

Commitment to Environmental Stewardship

Biodiversity and ecosystems have been identified as **material topics for Bracell** and strategic from the perspective of our stakeholders. Our commitment to environmental conservation is reflected in a structured management approach based on **policies, programs, and practices aimed at protecting and restoring natural resources** in the regions where we operate.



Our approach includes initiatives to:

- 1 Preserve and restore forests
- 2 Protect animal and plant species
- 3 Prevent deforestation

To ensure these initiatives are effective, we adopt **sustainable forest management practices** aligned with **recognized forestry certification standards**, supporting ecosystem conservation and compliance with the highest environmental standards.

In our operations, we implement biome-specific strategies for the **protection of native vegetation and biodiversity** in the **Caatinga, Cerrado, and Atlantic Forest** biomes—ecosystems that host a wealth of biological diversity and are essential for environmental balance.

These practices are formalized in our [Sustainability Policy](#), which guides our decisions and reinforces Bracell’s commitment to nature protection as an essential part of our business model.

learn more

Learn more about our forestry practices on page 26.

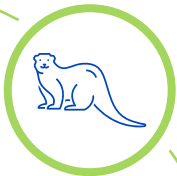
Monitoring Protected Areas – GRI 101-1, 101-2, 304-1

We manage our **conservation sites and protected areas in full compliance with the Brazilian Forest Code**. All information on land use on Bracell properties is **geo-referenced**, including **protected areas, legal reserves** and other areas of **native vegetation set aside for conservation**.

This data is integrated into our **Geographic Information System (GIS)**, which combines internal records with external sources such as **conservation sites** and **buffer zones**. The integrated data informs **operational procedures in line with legal and environmental restrictions outlined in management plans**, ensuring alignment with best environmental practices.

Lontra

Private Natural Heritage Reserve (RPPN)



The Lontra RPPN is the largest private reserve along Bahia’s northern coastline, spanning 1,378.16 hectares. This area is included in Brazil’s National Plan for Endangered Species, underscoring its critical role in biodiversity conservation. This ancient remnant of ombrophilous forest hosts a vast array of biodiversity, and is the area with the highest herpetological and ornithological diversity recorded by Bracell in Bahia. In 2024, we built an ecological trail in the Lontra RPPN to welcome members of the local community for scheduled visits.

LEARN MORE

Learn more in Bracell’s [Disclosures Hub](#) under GRI 3-3 (Management of the material topic: Biodiversity and Ecosystems), GRI 101-1, GRI 101-2, GRI 101-4, GRI 304-1, GRI 304-2, GRI 304-3, GRI 304-4, RR-PP-430a.1.

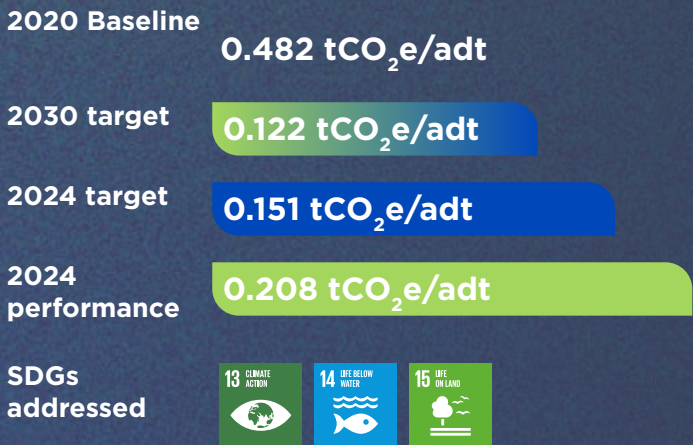
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Climate Action

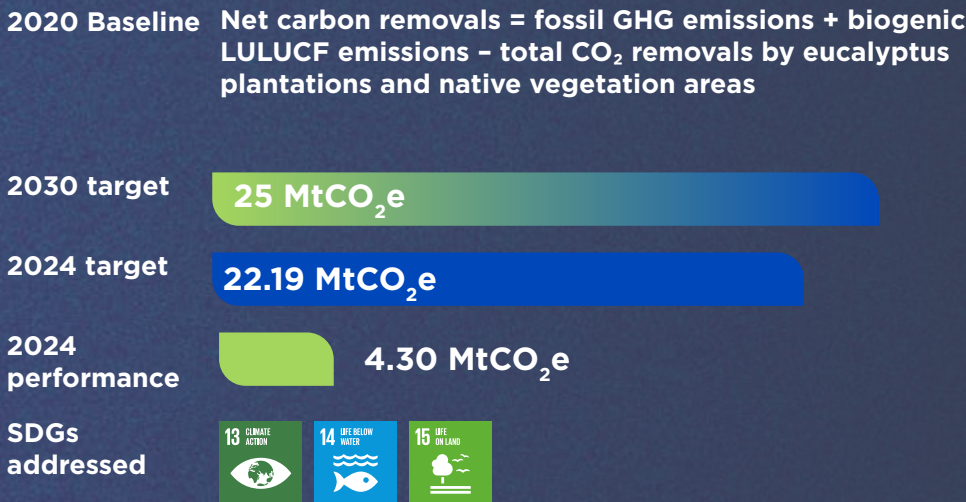
Pillar: Climate Action



Reduce carbon emissions per metric ton of product by 75%, targeting 0.122 tCO₂e/adt



25 MtCO₂e removed from the atmosphere between 2020 and 2030



Climate Change GRI 3-3

Climate change is one of the most pressing global challenges of our time. At Bracell, we take a proactive and responsible approach in tackling climate change. We have taken important steps in advancing our climate strategy, implementing initiatives that contribute both to reducing emissions and making our operations more resilient.

Our Sustainability Steering Committee is responsible for climate change-related initiatives and decisions. Our climate strategy includes quantifying and managing emissions, setting climate targets, and implementing planned actions across operations, all as part of the Bracell 2030 roadmap.

As part of the Bracell 2030 roadmap, we have set **two commitments tied to the material topic Climate Change**. These targets were informed by an assessment of the climate change risks and impacts—both positive and negative—of the company’s operations in the context of climate change: while our operations generate greenhouse gas (GHG) emissions, they also sequester CO₂ from the atmosphere through the development and preservation of managed forest areas—both eucalyptus plantations and native vegetation.

By 2030, we have committed to **reduce carbon emissions per metric ton of product by 75%, targeting 0.122 tCO₂e/adt**, from a 2020 baseline. Additionally, we have set a target to **remove 25 MtCO₂e from the atmosphere** over a decade—from 2020 to 2030—based on our operations’ carbon balance (i.e., the difference between total removals and anthropogenic and biogenic LULUCF emissions).

For 2024, our interim targets were to close the year with 0.151 tCO₂e/adt and 22.19 MtCO₂e in removals. In 2024, removals stood at 0.208 tCO₂e/adt and 4.30 MtCO₂e, respectively. A number of issues prevented us from achieving projected removals in the year, notably the increased use of mobile fuels in our operations, a higher incidence of wildfires, rising temperatures, and a significant decrease in rainfall.

However, we still achieved meaningful progress in the year, such as **reducing natural gas consumption in our operations** and **expanding the use of biomass in our gasifiers**, keeping us on track to meet our long-term commitments. We are also implementing a range of initiatives to support the continued decarbonization of our operations, including expanding renewable energy use and testing electric trucks (see [page 199](#)).

Managing Climate Change Risks and Impacts

Our forest research and development efforts span across two strategic areas which strengthen our management of climate change risks and impacts that could jeopardize our business and operational continuity. The key research endpoints are **sustainable Mean Annual Pulpwood Increment and Mean Annual Pulp Increment. Each year, a research pipeline is created with this goal in mind, taking into account the specific conditions and characteristics of each region where we operate.** To achieve these outcomes, we focus on three main areas:

- **Conventional genetic improvement (see [page 37](#)):** we do not use genetically modified organisms (GMOs), and our eucalyptus clones are developed through conventional genetic improvement. This process involves the generation, evaluation and selection of clones improved in successive cycles. The focus is also on developing techniques aimed at improving cloning efficiency, guaranteeing high-quality pulpwood that is more sustainable in the long term.

In 2024, the Forestry Research and Development team recommended the commercial planting of two clonal blends—one for our São Paulo operations and another for Bahia. These blends are an innovative type of cultivar consisting of a mixture of clones, which reduces vulnerability and offers greater protection against pests, diseases, and adverse weather events.

The blends were previously tested in the company’s nurseries and are ready for planting in Bracell’s commercial operations beginning in 2025.

In addition to these clonal blends, two new conventional clones were also recommended, one for each of the two regions (São Paulo and Bahia).

- **Forestry and forest management (read more on [page 37](#)):** Bracell seeks to continually improve its monitoring and climate-zoning processes, as well as adopting best practices in soil conservation, preparation and fertilization. Sustainable control of pests, diseases and weeds is also a priority, ensuring healthy, productive forests in the long term. In 2024, we produced 95 million natural enemies—46% more than in 2023. Biological

control replaces the use of chemicals, preventing emissions of greenhouse gases such as N₂O.

- **Forestry extension and technology transfer:** we provide specialized technical assistance and promote technology transfer for our forestry operations, ensuring the implementation of best practices and continuous process improvement.

Climate Zoning

We continuously conduct climate zoning studies using historical climate data such as precipitation, temperature, and latitude. This analysis helps us identify optimal areas for eucalyptus planting and make region-specific technical recommendations, including clone allocation and fertilization strategies.

In 2024, we introduced a new zoning parameter in Bahia: altitude. As a result of these studies, region-specific planting methods and cultivar recommendations will be provided.



Monitoring Carbon and Water Flux

We are a member of the Eucflux-IPEF Cooperative Program, which studies carbon and water flux in eucalyptus plantations in Brazil. This research is enhancing our understanding of these processes in a Bracell-managed eucalyptus plantation in Itatinga, São Paulo, where we have set up a flux tower equipped with advanced monitoring technology.

Eucflux is led by the Institute for Forest Research and Studies (IPEF) and the French Agricultural Research Centre for International Development (CIRAD), with participation from academic institutions such as the Federal University of Lavras (UFLA), São Paulo State University (UNESP), and the University of São Paulo (ESALQ/USP).

Our Monitoring Investments

As part of our Bracell 2030 commitments, we have invested in the construction of five flux towers to monitor water and carbon flux in eucalyptus plantations and native forests. In 2024, we installed two towers—one in a native forest area in São Paulo and another in a eucalyptus area in Bahia. Two more towers will be installed in Mato Grosso do Sul—one in each type of forested area—and another tower in a native forest in Bahia. The data is managed and analyzed by our Forestry Research and Development team.

CDP

In 2024, we participated for the first time in CDP’s questionnaires and achieved a **B** rating in all three evaluated topics: **Climate Change; Forests; and Water Security**. A B rating is strong for companies in their first year of reporting and demonstrates our commitment to transparency, responsible management of environmental impacts, and best practices aligned with the expectations of investors, customers, and other stakeholders.



GHG Emissions

Inventory

We prepare an annual corporate inventory of greenhouse gas (GHG) emissions and removals. In 2024, the inventory covered the entire pulp value chain including our mills in the Lençóis Paulista (SP) and Camaçari (BA) industrial parks and associated forestry operations in those two states and in Mato Grosso do Sul, along with related logistics operations (see [page 19](#)).

Our GHG Inventory data is independently assured by a third party, with the relevant assurance statement published in this report (see [page 206](#)) and in our Disclosures Hub.

Bracell's Greenhouse Gas Inventories cover scopes 1, 2 and 3 and are prepared in accordance with guidance provided in the latest edition of ISO 14064, the GHG Protocol, and the quantification methodologies published by the Intergovernmental Panel on Climate Change (IPCC).

We are members of the Brazilian GHG Protocol Program (PBGHG) and have disclosed our GHG inventory data in the Brazilian [Public Emissions Registry](#) since 2022. In 2024, we were awarded the Gold Badge by the program—a recognition awarded to organizations that demonstrate high levels of accuracy and transparency in their GHG inventory submissions.



Carbon Balance GRI 305-1, 305-2, 305-3

Bracell’s planted eucalyptus forests and native forest areas play a crucial role in capturing CO₂ from the atmosphere, absorbing and storing carbon throughout the trees’ growth cycle. This natural process helps **partially offset our greenhouse gas (GHG) emissions.**

In 2024, Bracell generated 1,716,315.84 tCO₂e in anthropogenic emissions originating from fossil fuel combustion (scopes 1, 2, and 3) and 2,227,222.45 tCO₂e in biogenic LULUCF emissions, while removing -4,119,009.65 tCO₂e from our planted and native forests. As a result, the net emissions balance was -175,471.36 tCO₂e, providing a positive contribution to climate action.

In 2024, our removals exceeded our emissions. **We removed -4.119.009,65 (tCO₂e per ton of product)** from the atmosphere, resulting in a carbon balance of -175,471.36 tCO₂e.

Emissions (tCO ₂ e)	2022	2023	2024
Total (scopes 1, 2 and 3)	1,555,114.00	1,701,669.00	1,716,315.84
Scope 1	614,673.00	597,454.00	731,362.80
Scope 2	5,258.00	9,611.00	13,213.63
Scope 3	935,183.00	1,094,603.00	917,739.41
Biogenic LULUCF emissions	3,793,831.00	3,940,391.00	2,227,222.45
Removals (tCO ₂ e)	-1,309,842.00	-1,286,441.00	-4,119,009.65
Balance	4,039,103.00	4,355,619.00	-175,471.36

Greenhouse Gas Emissions Intensity GRI 305-4

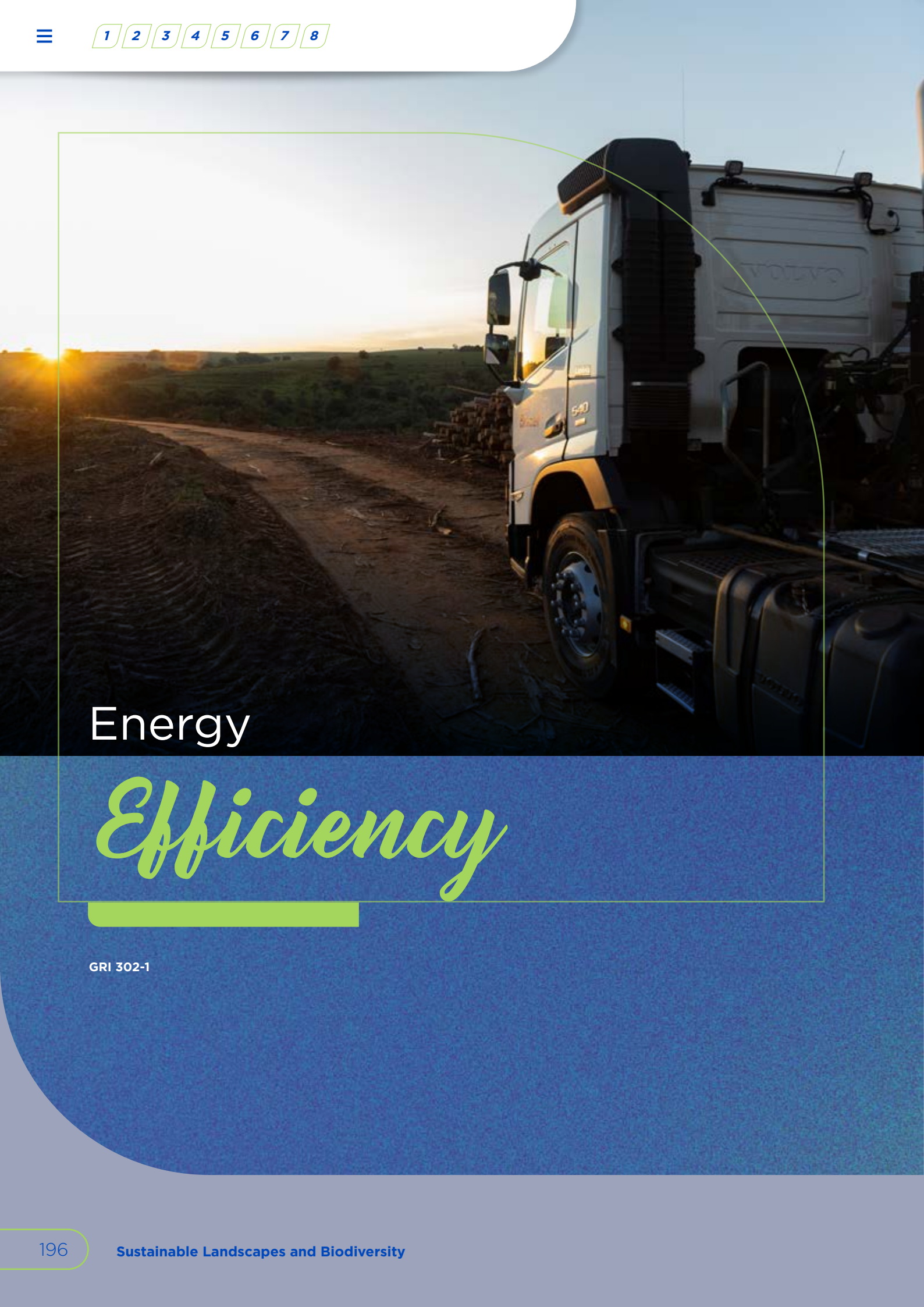
In 2024, our scope 1 and 2 GHG emissions intensity increased by approximately 19% compared to 2023. The increase was primarily driven by greater use of fossil fuels in our logistics operations and a significant rise in forest fires. It was also influenced by increased electricity purchases from the national grid to accommodate the expansion of our operations.

Emissions (tCO ₂ e per ton of product)	2022	2023	2024
Scopes 1 and 2	0.181	0.174	0.208

Note: Bracell’s emissions intensity metric covers scopes 1 and 2 from our mills in São Paulo and Bahia, as it includes GHG emissions from the pulp production process.

learn more

Visit Bracell’s [Disclosures Hub](#) under GRI 3-3 (Management of material topics: Climate Change), GRI 201-2, GRI 305-1, GRI 305-2, GRI 305-3, GRI 305-4, GRI 305-5, GRI 305-6, GRI 305-7, RR-PP-110a.1, RR-PP-110a.2, RR-PP-120a.1.



Energy

Efficiency

GRI 302-1

Our mills are energy self-sufficient. Recovery boilers produce steam that drives turbine generators to generate electricity. Electricity from the national grid is used only during scheduled maintenance shutdowns. During these periods, electricity is purchased from the national grid, which uses an energy mix primarily composed of renewable sources—especially hydropower, wind, and solar, which together account for about 85% of the total.

For forestry operations and nurseries, electricity is also sourced from the national grid, and diesel-powered generators are used to meet some temporary needs.

In our mill storage yards, we use electric forklifts to reduce fossil fuel consumption in these operations. In 2024, we continued testing electric trucks to transport pulp from our mill in Lençóis Paulista (SP) to the road-rail terminal in Pederneiras (SP).

Energy consumption within the organization (GJ) GRI 302-1

	2022	2023	2024
Bahia	1,579,433.51	1,541,824.41	17,706,299.98
São Paulo	5,828,717.43	6,248,231.36	177,670,455.60
Papéis Sudeste	-	-	380,731.13
Papéis Nordeste	-	-	543,413.07
Total	7,408,150.94	7,790,055.77	196,300,899.72

Note: Electricity consumption is calculated as total purchased and generated electricity, less any electricity sold to third parties.

Electricity generated (GJ) GRI 302-1

	2022	2023	2024
Bahia	1,262,907.28	1,066,178.70	17,178,104.38
São Paulo	8,896,430.99	9,387,409.61	180,045,408.44
Papéis Sudeste	-	-	380,731.13
Papéis Nordeste	-	-	370,631.18
Total	10,159,338.27	10,453,588.31	197,974,875.12

Note: In 2024, Bracell adopted a new methodology for calculating energy generation and consumption across all operations. Unlike in 2022 and 2023, when only electricity consumption was taken into account, the new approach implemented in 2024 is broader in scope. This updated method includes all types of energy used in production processes—such as electricity, steam, fuels (both renewable and non-renewable), and other sources related to heating and steam generation.

Purchased electricity (GJ) GRI 302-1

	2022	2023	2024
Bahia	348,790.00	486,127.30	538,992.00
São Paulo	112,990.60	367,038.00	332,659.68
Papéis Sudeste	-	-	0.00
Papéis Nordeste	-	-	172,781.89
Total	461,780.60	853,165.30	1,044,433.57

Note 1: electricity from the national grid is used during general plant shutdowns and corrective maintenance within the production process.
Note 2: Bracell Papéis Sudeste uses electricity generated as part of the pulp production process. As a result, this site does not purchase energy from external sources.

Electricity sold (GJ) GRI 302-1

	2022	2023	2024
Bahia	32,263.77	10,481.59	10,796.40
São Paulo	3,180,704.16	3,506,216.24	2,707,612.52
Total	3,212,967.93	3,516,697.83	2,718,408.92

The decrease in electricity sales by the Lençóis Paulista (SP) site is due to a reduction in electricity exports caused by an increase in on-site electricity consumption.

Total energy consumed within the organization, by energy type (GJ) in 2024
GRI 302-1

Type of energy	Bahia	São Paulo	Papéis Sudeste	Papéis Nordeste	Bracell
Nonrenewable fuels consumed	2,979,196.54	1,312,265.36	3,338.29	5,712.94	4,300,513.13
Renewable fuels consumed	13,659,915.84	64,775,904.80	0.00	192,136.34	78,627,956.98
Electricity, heating, cooling and steam purchased for consumption	538,992.00	113,957,238.28	377,392.84	172,781.89	115,046,405.01
Sale of surplus electricity, heating, cooling or steam	10,796.40	2,707,612.52	0.00	0.00	2,718,408.92
Total	17,178,104.38	180,045,408.44	380,731.13	370,631.18	197,974,875.12

Renewable Energy

The new flexible lines at our Lençóis Paulista (SP) mill are equipped with a recovery boiler that generates renewable energy from eucalyptus biomass, composed of trimmings from the plant and other substances originating from the production of dissolving pulp, including black liquor.

In 2024, we generated 197,974,875.12 GJ of renewable electtcity. We sold 2,718,408.92 GJ of eucalyptus biomass-derived electricity to Brazil’s free energy market.

These lines were designed to operate without fossil fuels. The Lençóis Paulista (SP) site has a 440kV substation with an installed capacity of 409 MW, supplying the full electricity requirement of the mill and a surplus of approximately 150 to 180 MW that is sold to the national grid, enough to supply clean renewable electricity to around 405,000 homes or approximately 1.6 million people.

Bracell receives International Renewable Energy Certificates (I-RECs) as proof that the electricity we use in our operations and sell is renewably sourced.

Electric Trucks

Since 2023, Bracell has been testing electric trucks for pulp transport, as part of our commitment to sustainable practices across the entire operation. Although still in a trial phase, the initiative supports GHG emissions reductions in our logistics and uses renewable electricity generated in our own production process.

In 2024, the electric trucks transported 33,200 metric tons of product, covering a total of 91,500 kilometers.



Clean Energy at Bracell Papéis

Bracell Papéis mills feature technology for utilizing renewable energy in operations and reducing greenhouse gas emissions during pulp transportation. Learn more about related initiatives:

Solar Energy

Bracell Papéis' facility in Lençóis Paulista (SP) is equipped with a 50,000 m², 7.21 MW solar array that generates clean, fossil-free, renewable electricity—supplying around 20% of the plant's total electricity requirement.

Automated Vertical Warehouse and Energy Efficiency

The products manufactured at the Lençóis Paulista (SP) site are stored in an **automated vertical warehouse**, which uses **robot-operated elevators** to optimize goods handling. This system ensures greater energy efficiency in the process. Automation reduces the need for lighting and air-conditioning, resulting in **energy savings** in warehousing operations. The system improves logistics management, supporting optimized storage and rapid handling of goods, thereby reducing waste and increasing productivity. It also improves safety and efficiency. Automation minimizes human interference, making the process safer, more precise and more sustainable.

Biomass Boiler

At the Feira de Santana (BA) plant, we commissioned a new biomass boiler, which came online in December. The new unit, which is safer and more efficient, was installed as part of our *Inovar* program—representing the largest investment in the facility's history.

Pulp Transportation for Tissue Production

The Lençóis Paulista (SP) mill is located on the same site as Bracell's flexible lines, where the kraft pulp used in tissue manufacture is produced. This logistical integration enables the **pulp to be transported by pipeline, eliminating the need for drying and transportation by road**, and thereby saving GHG emissions and optimizing processes.

learn more

Find out more in our [Disclosures Hub](#) under **GRI 302-2, GRI 302-3, GRI 302-4, GRI 302-5, RR-PP-130a.1.**

Energy Intensity GRI 302-3

Energy intensity data is calculated based on the volume of electricity consumed per metric ton of product produced: kraft pulp and dissolving pulp. For confidentiality reasons, Bracell does not report production data. In 2024, Bracell Papéis began integrating its operations into the management processes and procedures used at Bracell and the wider RGE group of companies. As a result, operational data is unavailable for this report due to the processes prioritized in 2024. Unavailable data will be published starting with the 2025 performance report.

Bracell Papéis' mills are equipped with technologies enabling the use of **renewable energy** across our operations.



About this Report

GRI 2-1, 2-2, 2-3, 2-5

Report Profile

Bracell is committed to annual reporting on its sustainability performance and management practices to its stakeholders. For one more year, we are reporting on our performance in the environmental, social and governance dimensions, in compliance with the Global Reporting Initiative (GRI) 2021 Standards, the Sustainability Accounting Standards Board (SASB) Standards, and the UN Global Compact Communication on Progress guidelines.

That information is disclosed through the Bracell Sustainability Report and our Disclosures Hub, both of which are published on Bracell's website. The information is for the period January 1 to December 31, 2024 and addresses the topics in our materiality matrix, last updated in 2024. This

is the first year we are reporting on progress toward the Bracell 2030 targets and commitments, which contribute directly to the United Nations Sustainable Development Goals (SDGs).

Our disclosures for 2024 cover our management practices and performance indicators for pulp and paper operations in Brazil, in the states of São Paulo (Bracell SP Celulose Ltda.), Bahia (Bracell Bahia Specialty Celulose S.A.), and Pernambuco (Bracell Papéis Nordeste Ltda.). The Bracell Foundation, presented on [page 52](#), operates with independent administrative and financial management and, as such, is not included in this Report.

The information published in the Sustainability Report and Disclosures Hub is assured by an independent, external third party, with no conflict of interest. The Limited Assurance Reports for the information in the Sustainability Report, Greenhouse Gas Inventory and One-to-One Commitment are publicly available in this report (pages [206](#), [215](#) and [220](#), respectively) and in our Disclosures Hub.

Note: Bracell has published sustainability reports since 2010. Since 2011, our reports have been prepared in accordance with the Global Reporting Initiative (GRI) Standards. From 2010 to 2017, our sustainability reports covered our Bahia operations only. Since 2018, they have also included our operations in São Paulo. Reports have been third-party audited since 2019. Our Disclosures Hub was published for the first time in 2021, and is updated annually. Our current and previous sustainability reports are available [here](#).

Any comments, critiques or queries about our management practices and results are welcome.

Please email them to faleconosco@bracell.com (for Bahia and Pernambuco) or faleconoscosp@bracell.com (for São Paulo).



**JUNTOS *somos*
mais FORTES**
#SomosBracell

Independent auditor’s limited assurance report on nonfinancial information contained in the Sustainability Report and Indicator Center

To the
Shareholders, Board of Directors and Officers of
BRACELL SP CELULOSE LTDA.
São Paulo – SP

Introduction

We were engaged by BRACELL SP CELULOSE LTDA (“Bracell”) to present our limited assurance report on the nonfinancial information described in Attachment 1, contained in the 2024 Sustainability Report and Indicator Center of Bracell (“Report”) for the year ended December 31, 2024.

Our limited assurance does not extend to information from prior periods or to any other information disclosed in conjunction with the Sustainability Report and Indicator Center , including any embedded images, audio files, or videos.

Bracell management’s responsibility

Bracell management is responsible for:

- selecting and establishing the appropriate criteria for preparation of the information contained in the 2024 Sustainability Report and Indicator Center ;
- preparing the information in accordance with the criteria and guidelines of the Global Reporting Initiative (“GRI - Standards”), the Sustainability Accounting Standards Board – Consumer Goods e Renewable Resources & Alternative Energy (“SASB”), and Own Indicators;
- designing, implementing, and maintaining internal control over the information relevant to the preparation of the information contained in the 2024 Sustainability Report and Indicator Center that is free from material misstatement, whether due to fraud or error.

Independent auditor’s responsibility

Our responsibility is to express a conclusion on the nonfinancial information described in Attachment 1, contained in the 2024 Sustainability Report and Indicator Center , based on the limited assurance engagement conducted in accordance with Technical Communication (CTO) No. 07/2022, issued by Brazil’s National Association of State Boards of Accountancy (CFC), and on NBC TO 3000 - Assurance Engagements Other than Audits and Reviews, also issued by the CFC, which is equivalent to the international standard ISAE 3000, Assurance engagements other than audits or reviews of historical financial information, issued by the International Auditing and Assurance Standards Board (IAASB). These standards require that the auditor comply with ethical requirements, independence, and other related responsibilities, including application of the Brazilian Quality Control Standard (NBC PA 01) and, therefore, the maintenance of a comprehensive quality control system, including documented policies and procedures on compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements.

In addition, these standards require that the work be planned and performed with the objective of obtaining limited assurance that the nonfinancial information described in Attachment 1, contained in the 2024 Sustainability Report and Indicator Center as a whole is free from material misstatement.

A limited assurance engagement conducted in accordance with NBC TO 3000 (ISAE 3000) consists primarily of inquiries of Bracell management and other Bracell professionals who are involved in the preparation of the information, as well as the application of analytical procedures to obtain evidence that enables us to conclude, in the form of limited assurance, on the information taken as a whole. A limited assurance engagement also requires application of additional procedures whenever the independent auditors become aware of matters that would cause them to believe that the information disclosed in the 2024 Sustainability Report and Indicator Center may not be free from material misstatement.

The procedures selected were based on our understanding of aspects regarding compilation, materiality, and presentation of the information described in Attachment 1, contained in the 2024 Sustainability Report and Indicator Center, on other engagement circumstances, as well as on our consideration of areas and processes associated with the material information disclosed in the 2024 Sustainability Report and Indicator Center in which material misstatements could occur. Our procedures included the following, among others:

- a) planning of our work, considering the materiality, the volume of qualitative and quantitative information, and operational and internal control systems used as basis for the preparation of the information contained in the 2024 Sustainability Report and Indicator Center;
- b) understanding the calculation methodology and the procedures for compiling the indicators through inquiries of managers responsible for preparation of the information;
- c) application of analytical procedures to quantitative information and inquiries as to qualitative information, and correlation with the indicators contained in Attachment 1 and disclosed in the 2024 Sustainability Report and Indicator Center; and
- d) for cases in which nonfinancial data correlate with financial indicators, the comparison of these indicators with the financial statements and/or accounting records.

The limited assurance procedures also included checking for compliance with the guidelines and criteria of the GRI - Standards and Own Indicators applicable to the preparation of the information described in Attachment 1, contained in the 2024 Sustainability Report and Indicator Center.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our limited assurance conclusion.

Scope and limitations

The procedures performed in a limited assurance engagement vary in nature and timing, and are less extensive than for a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement. Had we performed a reasonable assurance engagement, other issues and possible misstatements that may exist in the information described in Attachment 1, contained in the 2024 Sustainability Report and Indicator Center could have been identified. Accordingly, we do not express an opinion on this information.

Nonfinancial data is subject to more inherent limitations than financial data, given the nature and diversity of the methods used to determine, calculate, or estimate this data. Qualitative interpretations of materiality, relevance, and accuracy of nonfinancial data are subject to individual assumptions and judgments. Additionally, we have not performed any work on data informed for prior periods, or on future forecasts and goals.

The preparation and presentation of sustainability indicators followed the criteria of GRI - Standards, SASB, and Own Indicators, and

therefore do not have the objective of ensuring compliance with social, economic, environmental, or engineering laws and regulations. However, these standards provide for the presentation and disclosure of any noncompliance with such regulations when significant sanctions or fines occur. Our assurance report should be read and understood in this context, inherent in the selected criteria of the Global Reporting Initiative - GRI ("GRI - Standards"), the Sustainability Accounting Standards Board ("SASB"), and Own Indicators of Bracell.

Conclusion

Based on the procedures carried out, described herein, and on the evidence obtained, nothing has come to our attention that causes us to believe that the nonfinancial information described in Attachment 1, contained in the Sustainability Report and Indicator Center, for the year ended December 31, 2024 of Bracell, was not prepared, in all material respects, in accordance with the criteria and guidelines of the Global Reporting Initiative - GRI ("GRI - Standards"), the Sustainability Accounting Standards Board ("SASB"), and Own Indicators of Bracell.

Ribeirão Preto (SP), July 15, 2025.

Ernst & Young

Auditores Independentes S/S Ltda.
CRC SP-044415

Wagner dos Santos Junior
Accountant CRC 1SP-216386/O-T

Attachment 1

Indicators

The 2024 Sustainability Report and Indicator Center indicators of Bracell included in the limited assurance scope are as follows:

305-3	Other indirect (Scope 3) GHG emissions	
GRI	2-1	Organizational details
GRI	2-2	Entities included in the organization’s sustainability reporting
GRI	2-3	Reporting period, frequency and contact
GRI	2-4	Restatements of information
GRI	2-5	External assurance
GRI	2-6	Activities and workers
GRI	2-7	Employees
GRI	2-8	Workers who are not employees
GRI	2-9	Governance structure and composition
GRI	2-10	Nomination and selection of the highest governance body
GRI	2-11	Chair of the highest governance body
GRI	2-12	Role of the highest governance body in overseeing the management of impacts
GRI	2-13	Delegation of responsibility for managing impacts
GRI	2-14	Role of the highest governance body in sustainability reporting
GRI	2-15	Conflicts of interest
GRI	2-16	Communication of critical concerns
GRI	2-17	Collective knowledge of the highest governance body
GRI	2-18	Evaluation of the performance of the highest governance body
GRI	2-19	Remuneration policies
GRI	2-20	Process to determine remuneration
GRI	2-21	Annual total compensation ratio
GRI	2-22	Statement on sustainable development strategy
GRI	2-23	Policy commitments
GRI	2-24	Embedding policy commitments
GRI	2-25	Processes to remediate negative impacts

GRI	2-26	Mechanisms for seeking advice and raising concerns
GRI	2-27	Compliance with laws and regulations
GRI	2-28	Membership associations
GRI	2-29	Approach to stakeholder engagement
GRI	2-30	Collective bargaining agreements
GRI	3-1	Process to determine material topics
GRI	3-2	List of material topics
GRI	3-3	Management of material topics
GRI	101-1	Policies to halt and reverse biodiversity loss
GRI	101-2	Management of biodiversity impacts
GRI	101-4	Identification of biodiversity impacts
GRI	201-2	Financial implications and other risks and opportunities due to climate change
GRI	201-3	Defined benefit plan obligations and other retirement plans
GRI	202-1	Ratios of standard entry level wage by gender compared to local minimum wage
GRI	202-2	Proportion of senior management hired from the local community
GRI	203-1	Infrastructure investments and services supported
GRI	203-2	Significant indirect economic impacts
GRI	204-1	Proportion of spending on local suppliers
GRI	205-1	Operations assessed for risks related to corruption
GRI	205-2	Communication and training about anti-corruption policies and procedures
GRI	205-3	Confirmed incidents of corruption and actions taken
GRI	206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices
GRI	302-1	Energy consumption within the organization
GRI	302-2	Energy consumption outside of the organization
GRI	302-3	Energy intensity
GRI	302-4	Reduction of energy consumption
GRI	302-5	Reductions in energy requirements of products and services
GRI	303-1	Interactions with water as a shared resource
GRI	303-2	Management of water discharge-related impacts
GRI	303-3	Water withdrawal

GRI	303-4	Water discharge
GRI	303-5	Water consumption
GRI	304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas
GRI	304-2	Significant impacts of activities, products, and services on biodiversity
GRI	304-3	Habitats protected or restored
GRI	304-4	IUCN Red List species and national conservation list species with habitats in areas affected by operations
GRI	305-1	Direct (Scope 1) GHG emissions
GRI	305-2	Energy indirect (Scope 2) GHG emissions
GRI	305-3	Other indirect (Scope 3) GHG emissions
GRI	305-4	GHG emissions intensity
GRI	305-5	Reduction of GHG emissions
GRI	305-6	Emissions of ozone-depleting substances (ODS)
GRI	305-7	Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions
GRI	306-1	Waste generation and significant waste-related impacts
GRI	306-2	Management of significant waste-related impacts
GRI	306-3	Waste generated
GRI	306-4	Waste diverted from disposal
GRI	306-5	Waste directed to disposal
GRI	308-1	New suppliers that were screened using environmental criteria
GRI	308-2	Negative environmental impacts in the supply chain and actions taken
GRI	401-1	New employee hires and employee turnover
GRI	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees
GRI	401-3	Parental leave
GRI	403-1	Occupational health and safety management system
GRI	403-2	Hazard identification, risk assessment, and incident investigation
GRI	403-3	Occupational health services
GRI	403-4	Worker participation, consultation, and communication on occupational health and safety
GRI	403-5	Worker training on occupational health and safety

GRI	403-6	Promotion of worker health
GRI	403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships
GRI	403-8	Workers covered by an occupational health and safety management system
GRI	403-9	Work-related injuries
GRI	403-10	Work-related ill health
GRI	404-1	Average hours of training per year per employee
GRI	404-2	Programs for upgrading employee skills and transition assistance programs
GRI	404-3	Percentage of employees receiving regular performance and career development reviews
GRI	405-1	Diversity of governance bodies and employees
GRI	405-2	Ratio of basic salary and remuneration of women to men
GRI	406-1	Incidents of discrimination and corrective actions taken
GRI	407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk
GRI	408-1 labor	Operations and suppliers at significant risk for incidents of child
GRI	409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor
GRI	411-1	Incidents of violations involving rights of indigenous peoples
GRI	413-1	Operations with local community engagement, impact assessments, and development programs
GRI	413-2	Operations with significant actual and potential negative impacts on local communities
GRI	414-1	New suppliers that were screened using social criteria
GRI	414-2	Negative social impacts in the supply chain and actions taken
SASB	RR-PP-110a.1	Gross global Scope 1 emissions
SASB	RR-PP-110a.2	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets
SASB	RR-PP-120a.1	Air emissions for the following pollutants: (1) NOx (excluding N2O), (2) SO2, (3) volatile organic compounds (VOCs), (4) particulate matter (PM), and (5) hazardous air pollutants (HAPs)
SASB	RR-PP-130a.1	(1) Total energy consumed, (2) percentage grid electricity, (3) percentage from biomass, (4) percentage from other renewable energy

SASB	RR-PP-140a.1	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with high or extremely high baseline water stress
SASB	RR-PP-140a.2	Description of water management risks and discussion of strategies and practices to mitigate those risks
SASB	RR-PP-430a.1	Percentage of wood fiber sourced from (1) third-party certified forestlands and percentage to each standard and (2) meeting other fiber sourcing standards and percentage to each standard
SASB	RR-PP-430a.2	Amount of recycled and recovered fiber procured
SASB	RR-PP-000.A	Pulp production
SASB	RR-PP-000.B	Paper production
SASB	RR-PP-000.C	Total wood fiber sourced
Own	Climate action 1 - 75% reduction in carbon emissions per ton of product	
Own	Climate action 2 - MtCO ₂ e removed from the atmosphere between 2020 and 2030	
Own	Sustainable landscapes and biodiversity 1 – Conservation of 230,000 ha of native forests	
Own	Sustainable landscapes and biodiversity 2 – Protection of endemic and threatened species	
Own	Sustainable landscapes and biodiversity 3 – Support for the reintroduction of animals into the wild	
Own	Sustainable landscapes and biodiversity 4 – Scientific research on biodiversity conservation	
Own	Delivering sustainable growth 1 - 47% reduction in water consumption per ton of product	
Own	Delivering sustainable growth 2 - 90% reduction in industrial solid waste sent to landfills per ton of product	
Own	Delivering sustainable growth 3 - 97% chemical recovery in our operations	
Own	Empowering lives 1 – Promoting equal opportunities for women	
Own	Empowering lives 2 – Fostering an inclusive work environment for diversity groups	
Own	Empowering lives 3 – Promoting women's entrepreneurship in communities	
Own	Empowering lives 4 – Promoting income generation for families and communities	
Own	Empowering lives 5 – Promoting quality public education	

GREENHOUSE GAS EMISSIONS INVENTORY VERIFICATION STATEMENT

Nº 2025BQCE1261

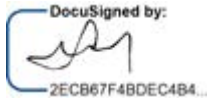
RINA Brasil Serviços Técnicos Ltda (RINA) has conducted verification activities in accordance with the Verification Specifications of the Brazilian GHG Protocol Program (PBGP) and the ABNT NBR 14064-3:2023 standard for:

Reporting Organization	BRACELL SP CELULOSE LTDA.
Address	Rodovia Juliano Lorenzetti Km 4 CEP: 18685-901 Lençóis Paulista São Paulo
Inventory Responsible Person	Gabrielly Rauch

The reporting organization is responsible for the preparation and fair presentation of the Greenhouse Gas (GHG) Emissions Inventory in accordance with the Brazilian GHG Protocol Program. This responsibility includes the planning, implementation, and maintenance of data management related to the preparation and presentation of the GHG inventory.

RINA conducted the verification through document review, site visits, interviews with responsible personnel, and analysis of evidence and historical data.

The Greenhouse Gas (GHG) emissions reported by the Reporting Organization in its emissions inventory for the period from 01/01/2024 to 31/12/2024 are verifiable and comply with the PBGP requirements, as detailed in the Specifications of the Brazilian GHG Protocol Program for Accounting, Quantifying, and Reporting Corporate GHG Emissions Inventories (EPB).



Lúcia Nunes Pereira
Food & Sustainability Manager
RINA Brasil Serviços Técnicos Ltda.
Rua Ministro Orozimbo Nonato,
nº 215, PAVMT06, Room GC/40
Edif. Portal de Nova Lima -
Vila da Serra – Nova Lima - MG

Level of Assurance

RINA assigned the following level of assurance to the verification process:

☐ Reasonable Level of Assurance

The GHG emissions inventory of the reporting organization for the year is materially correct and provides a fair representation of GHG data and information and has been prepared in accordance with the EPB.

☒ Limited Level of Assurance

There is no evidence that the GHG emissions inventory of the reporting organization for the year 2024 is materially misstated; there is no indication that the inventory does not fairly represent the GHG data and information or that it was not prepared in accordance with the EPB.

☐ Inventory Not Verifiable

Description of reason(s):

Scope of Verification

The inventory for the year 2024 of the reporting organization was verified within the following scope:

Organizational Boundaries	Operational Boundaries
☒ Operational Control ☐ Equity Share	☒ Scope 1 ☒ Scope 2 – Location-based approach ☐ Scope 2 – Market-based approach ☒ Scope 3

☐ Excluded from verification (Sources/ Sites/ Legal Entities):

Visited Facilities

Sites visited during the verification and respective visit dates:

Facility Name	Address	Date of Visit
Bracell - São Paulo	Rodovia Juliano Lorenzetti Km 4 CEP: 18685-901 Lençóis Paulista São Paulo	13/05/2025 14/05/2025
Bracell - Bahia	Rua Alfa, 1033, AIN Complexo Industrial de Camaçari CEP 42810-290 Camaçari Bahia	19/05/2025 20/05/2025

Total emissions verified throughout the organization, according to the Operational Control approach

GHG Emissions in metric tons of CO2 equivalent (tCO ₂ e)				
GHG	Scope 1	Scope 2 Location-based approach	Scope 2 Market-based approach	Scope 3
CO ₂	561,224.174	13,213.626	-	910,252.132
CH ₄	53,782.942	-	-	26,218.612
N ₂ O	104,422.943	-	-	35,268.671
HFCs	11,932.698	-	-	-
PFCs	-	-	-	-
SF ₆	0.046	-	-	-
NF ₃	-	-	-	-
TOTAL	731,362.804	13,213.626	-	971,739.415
Biogenic CO ₂	9,156,105.507	-	-	36,070.56

Total removals verified across the organization, as per the operational control approach

Biogenic CO ₂ Removal (tCO ₂ e)				
GHG	Scope 1	Scope 2 Location-based approach	Scope 2 Market-based approach	Scope 3
Biogenic CO ₂	4,119,009.651	-	-	-

Other greenhouse gases not covered under the Kyoto Protocol
Total verified emissions across the organization – Operational Control approach

GHG	Emissões tCO ₂ e
HCFC-22 – (R22)	4,829.510
HCFC-141B	92.276

Additional Comments

During the technical verification process of the greenhouse gas (GHG) emissions inventory data of the company BRACELL SP CELULOSE LTDA, for the base year evaluated, the consolidation, data collection and document traceability practices associated with Scope 1, 2 and 3 emissions were analyzed, in accordance with the GHG Protocol and ISO 14.064-3:2022 methodology.

The inventory management structure demonstrated a centralized consolidation system, in which the corporate headquarters (Sustainability Area) is responsible for compiling data from operational units and forest bases.

Each unit maintains its own control spreadsheets, in which activity data is entered, duly accompanied by supporting documents (invoices, consumption reports, management reports, invoices, among others). Local managers — known as focal points — are responsible for gathering this information and periodically sending it to headquarters for integration into the official calculation tool used by the organization.

The sampling and validation of information followed the premises of robustness, traceability and representativeness, showing that approximately 100% of the sources and emission categories were evaluated, with broad coverage of the applicable scopes, even the categories with lower representativeness. This level of coverage exceeds the minimum limits normally required for verification audits, providing greater precision, reliability and transparency to the final result of the inventory.

Conflict of Interest (CDI)

I, **Lucio Fernando de Andrade**, certify that there is no conflict of interest between the Reporting Organization and the Verification Body, or any of the individuals or members of the verification team involved in verifying the inventory, as defined in Chapter 3.2.1 of the Verification Specifications of the Brazilian GHG Protocol Program.

The verification team is composed of the following professionals: Lucio Fernando de Andrade (Lead Verifier)

DocuSigned by:
Lucio Fernando de Andrade
FEC5FCC72B8C418...

Lucio Fernando de Andrade, Lead Verifier
Data: 26/05/2025

Verifier’s Conclusion on the GHG Emissions Inventory

As those responsible for the verification activities of the reporting organization’s GHG inventory, we certify that the information contained in this document is true.

DocuSigned by:
Lucio Fernando de Andrade
FEC5FCC72B8C418...

Lucio Fernando de Andrade, Lead Verifier
Data: 04/06/2025

DocuSigned by:
Thais de Lima Carvalho
BB8982154D04418...

Thais Carvalho, Independent Reviewer
Data: 04/06/2025

Revision

Revision Number: 1
Justification: Inclusion of HCFC-141B gas 92,276 tCO₂e – Non-Kyoto

Independent auditor's limited assurance report on nonfinancial information of the One For One Commitment contained in the Sustainability Report and Indicator Center

To the
Shareholders, Board of Directors and Officers of
BRACELL SP CELULOSE LTDA.
São Paulo – SP

Introduction

We were engaged by BRACELL SP CELULOSE LTDA (“Bracell”) to present our limited assurance report on the nonfinancial information of the “One for One Commitment” disclosed by the entity in the Sustainability Report and Indicator Center for the year ended December 31, 2024.

Our limited assurance does not extend to information from prior periods or to any other information disclosed in conjunction with the Sustainability Report and Indicator Center, including any embedded images, audio files, or videos.

Bracell management's responsibility

Bracell management is responsible for:

- selecting and establishing the appropriate criteria for preparation of the nonfinancial information contained in the One for One Commitment;
- preparing the information in accordance with the criteria and guidelines of the Terms of Reference of the One For One Commitment;
- designing, implementing, and maintaining internal control over the information relevant to the preparation of the One For One Commitment information that is free from material misstatement, whether due to fraud or error.

Independent auditor's responsibility

Our responsibility is to express a conclusion on the nonfinancial information of the One For One Commitment contained in the Sustainability Report and Indicator Center, based on the limited assurance engagement conducted in accordance with Technical Communication (CTO) No. 07/2022, issued by Brazil's National Association of State Boards of Accountancy (CFC), and on NBC TO 3000 - Assurance Engagements Other than Audits and Reviews, also issued by the CFC, which is equivalent to the international standard ISAE 3000, Assurance engagements other than audits or reviews of historical financial information, issued by the International Auditing and Assurance Standards Board (IAASB). These standards require that the auditor comply with ethical requirements, independence, and other related responsibilities, including application of the Brazilian Quality Control Standard (NBC PA 01) and, therefore, the maintenance of a comprehensive quality control system, including documented policies and procedures on compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements.

In addition, these standards require that the work be planned and performed with the objective of obtaining limited assurance that the nonfinancial information described in the One For One Commitment contained in the 2024 Sustainability Report and Indicator Center as a whole is free from material misstatement.

A limited assurance engagement conducted in accordance with NBC TO 3000 (ISAE 3000) consists primarily of inquiries of Bracell management and other Bracell professionals who are involved in the preparation of the information, as well as the application of analytical procedures to obtain evidence that enables us to conclude, in the form of limited assurance, on the information taken as a whole. A limited assurance engagement also requires application of additional procedures whenever the independent auditors become aware of matters that would cause them to believe that the One for One Commitment information disclosed in the 2024 Sustainability Report and Indicator Center may not be free from material misstatement.

The procedures selected were based on our understanding of aspects regarding compilation, materiality, and presentation of the One for One Commitment information contained in the 2024 Sustainability Report and Indicator Center, on other engagement circumstances, as well as on our consideration of areas and processes associated with the material information disclosed in the 2024 Sustainability Report and Indicator Center in which material misstatements could occur. Our procedures included the following, among others:

- a) planning of our work, considering the materiality, the volume of qualitative and quantitative information, and operational and internal control systems used as basis for the preparation of the One for One Commitment information contained in the 2024 Sustainability Report and Indicator Center;
- b) understanding the calculation methodology and the procedures for compiling the One for One Commitment through inquiries of managers responsible for preparation of the information;
- c) application of analytical procedures to quantitative information and inquiries as to qualitative information, and correlation with the One for One Commitment disclosed in the 2024 Sustainability Report and Indicator Center; and
- d) for cases in which nonfinancial data correlate with financial indicators, the comparison of these indicators with the financial statements and/or accounting records.

The limited assurance procedures also included compliance with the guidelines and criteria of the framework for preparation of the Terms of Reference of the One for One Commitment applicable in the preparation of the information contained in the 2024 Sustainability Report and Indicator Center.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our limited assurance conclusion.

Scope and limitations

The procedures performed in a limited assurance engagement vary in nature and timing, and are less extensive than for a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement. Had we performed a reasonable assurance engagement, other issues and possible misstatements that may exist in the One for One Commitment information contained in the 2024 Sustainability Report and Indicator Center could have been identified. Accordingly, we do not express an opinion on this information.

Nonfinancial data is subject to more inherent limitations than financial data, given the nature and diversity of the methods used to determine, calculate, or estimate this data. Qualitative interpretations of materiality, relevance, and accuracy of nonfinancial data are subject to individual assumptions and judgments. Additionally, we have not performed any work on data informed for prior periods, or on future forecasts and goals.

The preparation and presentation of sustainability indicators followed the criteria of the Terms of Reference of the One For One Commitment and, therefore, do not have the objective of ensuring compliance with social, economic, environmental, or engineering laws and regulations. However, these standards provide for the presentation and disclosure of any noncompliance with such regulations when significant sanctions or fines occur. Our assurance report should be read and understood in this context, inherent in Bracell's One For One Commitment criteria.

Conclusion

Based on the procedures carried out, described herein, and on the evidence obtained, nothing has come to our attention that causes us to believe that the nonfinancial information of the One For One Commitment contained in the Sustainability Report and Indicator Center, for the year ended December 31, 2024 of Bracell, was not prepared, in all material respects, in accordance with the criteria and guidelines of the Terms of Reference of Bracell's One For One Commitment.

Ribeirão Preto (SP), July 15, 2025.

Ernst & Young
Auditores Independentes S/S Ltda.
 CRC SP-044415



Wagner dos Santos Junior
 Accountant CRC 1SP-216386/O-T

Credits

Overall coordination
Bracell – Sustainability Department

Materiality: **Grupo Report**
Disclosures consulting, content and design: **Grupo Report**
Disclosure compilation: **ESG Hub**

Photo credits
Bracell archives

Translation
Ivan van Rheenen - América Latina Traduções



Bracell