

INTEGRATED REPORT 2024

SUMMARY VERSION

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→ A CSN Mineração
employee at the Casa
de Pedra Complex –
Congonhas (MG)

2024 OVERVIEW

→ A protected area
maintained by
CSN Mineração



Operational and Financial Headlines



42,010,000

metric tons of iron ore produced
(produced + sourced)



42,552,000

metric tons sold



R\$ 13 billion

in net revenue



R\$ 5.8 billion

Adjusted EBITDA



R\$ 250 million

in financial gains from the
10th continuous improvement cycle



Environmental Headlines



Completed a

**Climate Vulnerability
Assessment**



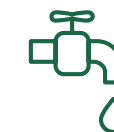
7% reduction

in emissions intensity



92% water

recycling at Casa de Pedra



22% reduction

in water withdrawals and a 23%
reduction in water intensity



Tested

**6 new fully electric
pieces of equipment**



All dams renewed their

stability certificates

following independent audits

→ CSN Mineração
employees –
Congonhas (MG)

Social Headlines



Our *EMPODERA* program

continued to support
women's career growth



26%

women-held
executive positions



11th year

with no fatalities



0.99 injury frequency rate, an

8.56% reduction



Governance Headlines



Started implementation of the ISO 20400

Sustainable Procurement standard



100%

of employees trained
in compliance



Listed in the FTSE4GOOD portfolio





→ Ore reclaiming
operations -
Itaguaí (RJ)

CSN Mineração is Brazil's second-largest iron ore exporter and ranks among the top ten producers globally. We are a member of the CSN Group, Brazil's largest basic industry conglomerate, with symbiotic operations spanning mining, steelmaking, cement, energy, and logistics.

Our flagship operations in the Iron Quadrangle, straddling the municipalities of Congonhas, Belo Vale, and Ouro Preto, include the Casa de Pedra complex, where we operate a central processing plant with an annual production capacity of 22.5 million metric tons of iron ore. Complementing our portfolio is the Pires beneficiation plant, a dry processing facility that adds another 10.5 million metric tons per year in production capacity.

CSN Mineração employs innovative tailings management solutions. All mined ore is processed through filtration and dry stacking, eliminating the need for conventional tailings dams and ultimately resulting in a safer process.

In logistics, CSN Mineração operates TECAR, our own port terminal at the Port of Itaguaí, Rio de Janeiro, with an annual capacity to ship 45 million metric tons of iron ore and receive 4 million metric tons of reductants such as coal and coke. We also own an 18.74% equity stake in MRS Logística S.A., a rail operator that connects the Iron Quadrangle and southern Rio de Janeiro to Brazil's primary port terminals.

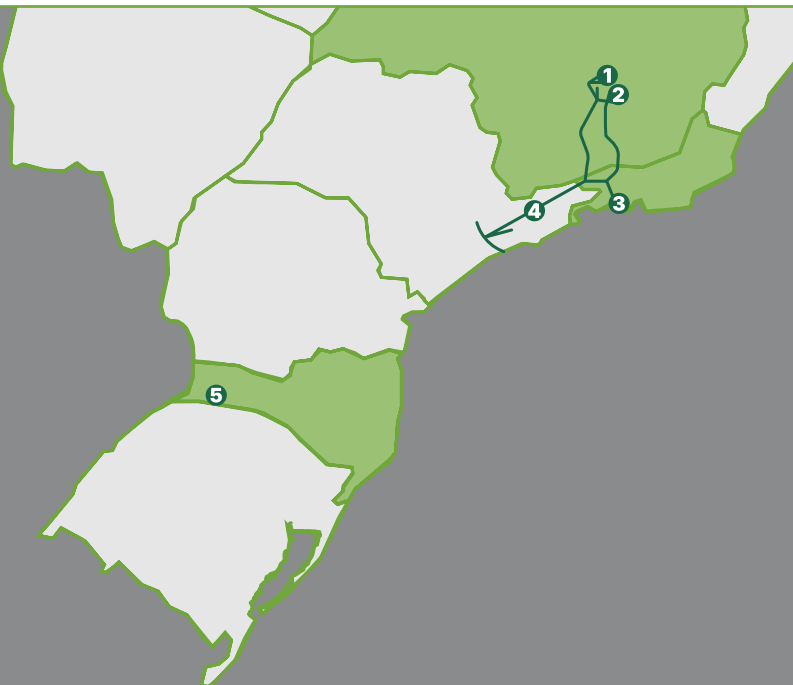
CMIN Mineração is
**Brazil's second-largest
iron ore exporter** and
ranks among the top ten
producers globally

CSN Mineração also has investments in the energy sector, including ownership of the Quebra-Queixo Hydroelectric Power Plant in Ipuaçu, Santa Catarina. With 120 MW of installed capacity, the plant supplies 100% renewable electricity to meet CSN Mineração's full electricity requirement, plus a surplus that is sold in Brazil's free energy market.

Through CSN Inova, an innovation platform that develops disruptive technological solutions and leads our digital transformation efforts, CSN Mineração is able to anticipate market trends and consolidate our position as a forward-looking, resilient company.



Our Operations



1. Casa de Pedra

The Casa de Pedra mine, in operation since 1913, holds the distinction of being Brazil's oldest active mine. It is renowned for its high-grade iron ore and world-class reserves, ranking among the largest globally.

2. Engenho mine and Pires complex

The Engenho mine is part of the Casa de Pedra complex and one of its main mining fronts. The Pires complex comprises crushing and screening units, along with dry beneficiation plants.

3. TECAR

TECAR is a port terminal operated by CSN Mineração. Its strategic integration with MRS Logística's rail network enhances overall logistics efficiency.

4. MRS Logística

MRS Logística's rail network links Minas Gerais, Rio de Janeiro, and São Paulo, forming part of Brazil's Steel Railway (Ferrovia do Aço). This strategic infrastructure integrates CSN Mineração's Casa de Pedra and Engenho & Pires mines with the Presidente Vargas Steelworks (UPV) and TECAR.

5. Quebra-Queixo Hydroelectric Plant (HPP)

Located in Ipuaçu, Santa Catarina, the Quebra-Queixo HPP provides a fully self-sufficient, 100% renewable electricity supply to CSN Mineração's operations. Any surplus is sold on the free energy market.

Portfolio

CSN Mineração has a diversified portfolio of high-quality iron ore products, tailored to meet the evolving needs of the global steel industry.



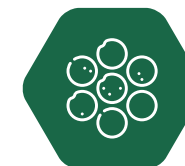
Lump Ore

Produced through a crushing and screening process, lump ore comes in particle sizes ranging from 50 mm to 6.3 mm. Due to its high mechanical strength, lump ore can be directly charged into blast furnaces, eliminating the need for prior agglomeration and making it an efficient input for pig iron production.



Sínter Feed

Sinter feed, with a particle size range of 6.3 mm to 0.150 mm, is an intermediate product obtained through more advanced stages of iron ore beneficiation. Before use in blast furnaces, sinter feed undergoes a sintering process, in which fine particles are fused into a cohesive charge, enhancing blast furnace efficiency and steel quality.



Pellet Feed

Pellet feed consists of fine iron ore particles smaller than 0.150 mm and requires an additional pelletizing stage prior to use in steel production. The pelletizing stage is essential to form high-quality pellets, which improve blast furnace performance and reduce greenhouse gas emissions in the steelmaking process.

CSN MINERAÇÃO - CMIN

Premium iron ore

With certified mineral reserves, CSN Mineração implements innovative solutions across our operations that support our commitment to safety and social and environmental responsibility

Location

Air

Central plant

CASA DE PEDRA

ENGENHO-PIRES

Pires

Integrated logistics

Products

Tailings filtration

Energy

Water

Modernization and EXPANSION

Growth Strategy

CSN Mineração's growth strategy is focused on expanding production capacity, improving iron ore quality, and driving sustainability. In support of this strategy, CSN Mineração has committed to investing R\$ 13.2 billion in Minas Gerais through 2030.

The flagship project of this investment strategy is the construction of a new iron ore beneficiation plant at the Casa de Pedra complex in Congonhas. The P15 Itabirite Plant, now under construction, will boast an annual production capacity of 16.5 million metric tons of pellet feed—a high-grade ore with 67% iron content (Fe), ideally suited for producing low-carbon steel using natural gas or hydrogen as reducing agents.

Targeting strategic markets including Japan, Europe, and the Middle East, this new plant will accelerate the decarbonization of the global steel industry. CSN Mineração currently produces over 30 million metric tons of iron ore annually.

CSN Mineração is also investing in initiatives such as the B4 and Casa de Pedra rougher magnetic separation projects—which will add two high-intensity magnetic concentration plants to process tailings stored in the B4 and Casa de Pedra dams, with an expected annual output of 5 million metric tons of pellet feed—as well as other projects within our strategic roadmap.

To accommodate our projected production growth, CSN Mineração is expanding the capacity of our TECAR port terminal in Itaguaí from 45 million to 60 million metric tons per year.



Innovation and Technology

Our culture of innovation is fostered through programs and tools that encourage active participation across all organizational levels.

A key example of this is **CSN Lab Ideas**, a program that encourages employees to continuously suggest improvement ideas. In 2024, CSN Mineração completed its tenth continuous improvement cycle, leading to the implementation of over 3,000 improvements, with the direct participation of more than 4,800 employees, representing 75% of our total workforce. These initiatives delivered over R\$240 million in verified financial gains, confirmed by our budget and finance teams.

Through **CSN Conecta**, we also identify and accelerate sustainable initiatives with the potential to transform daily operations and create broader industry impact. In 2024, **CSN Conecta** addressed critical topics like diversity, decarbonization, inclusion, and environmental responsibility, fostering an environment where employees are encouraged to design and implement innovative solutions.

An additional strategic initiative is **CSN Inova**, an innovation platform designed to foster business transformation across the CSN Group, steering the business toward a more innovation- and ESG-driven management model. At CSN Mineração, **CSN Inova** has spearheaded projects like the MRS System, which

→ An employee performing a chemical assay as part of the ore quality control process at CSN Mineração – Congonhas (MG)



Employees at all levels are encouraged to engage around our culture of innovation

reduced sinter feed moisture content, enhancing rail transport efficiency and lowering operational costs.

Between 2019 and 2024, **CSN Inova**-led projects have generated approximately R\$100 million in value for CSN Mineração and R\$620 million for the wider CSN Group, primarily driven by cost reductions and operational improvements. The platform is structured into three main workstreams (**Open Innovation**, **Corporate Venture Capital** and **Venture Builder**) aimed at identifying new solutions, establishing strategic partnerships, and evaluating projects based on clear challenges and measurable financial and operational outcomes.

In addition to these three core areas, **CSN Inova** supports our ESG transition via **Inova Bridge**—a platform providing high-level coordination of CSN Mineração's ESG Committee. **CSN Inova Bridge** collaborates with leaders and business units to identify and monitor key challenges and opportunities related to CSN Mineração's material topics, ensuring that innovation strategically contributes to our broader sustainability, social and governance agenda.

Financial PERFORMANCE

CSN Mineração had a historic year with exceptional results across our operations. We once again delivered strong operational efficiency, posting robust figures across production, sales, port throughput, and dividend distribution, building competitiveness and growing our market presence.





42 million

metric tons of iron ore
(produced and sourced)

PRODUCTION VOLUME¹

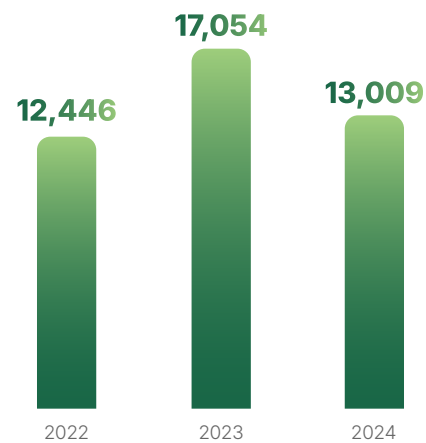
thousand metric tons



¹ Produced + sourced from third parties.

ADJUSTED NET REVENUE

R\$ million



SALES VOLUME

thousand metric tons



STATEMENT OF ADDED VALUE - MAIN LINE ITEMS

(R\$ million)

	2022	2023	2024
Revenue	13,649.7	19,199.4	16,830.3
Inputs purchased from third parties	(6,741.8)	(10,549.1)	(9,894.3)
Gross added value	6,907.9	8,650.3	6,936.0
Withholdings	(998.9)	(1,041.1)	(1,150.0)
Net added value produced	5,908.9	7,609.2	5,786.0
Transferred added value	(159.4)	0.7	3,284.9
Total added value to be distributed	5,749.6	7,609.8	9,070.9

Distribution of added value

Payroll and related charges	696.1	292.5	840.0
Taxes, charges and contributions	1,604.7	1,862.1	840.0
Interest on third-party capital	498.5	1,886.5	1,906.9
Interest on equity	2,950.3	3,658.7	4,527.7
Total added value to be distributed	5,749.6	7,609.8	9,070.9

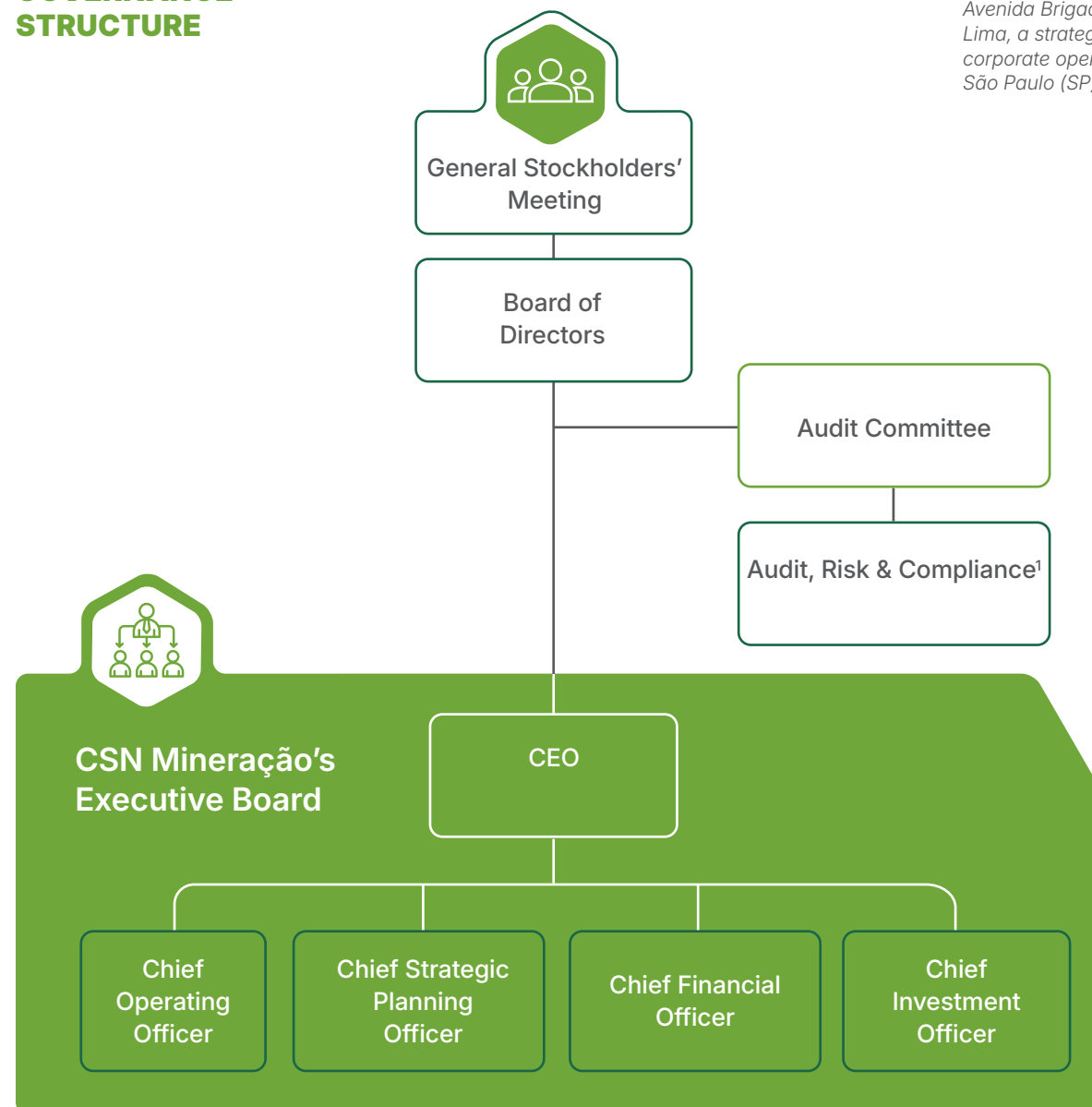
Corporate GOVERNANCE

CSN Mineração is listed on the Tier 2 corporate governance segment of the São Paulo Stock Exchange (B3: CMIN3), underscoring our commitment to high standards of transparency and corporate governance. Our corporate governance policies and processes are aligned with market best practices and the regulations of the Brazilian Securities Commission (CVM).

In addition to ensuring regulatory compliance, our governance structure is designed to integrate our operational assets to leverage competitive advantages, capture strategic opportunities, and drive sustainable growth.



GOVERNANCE STRUCTURE

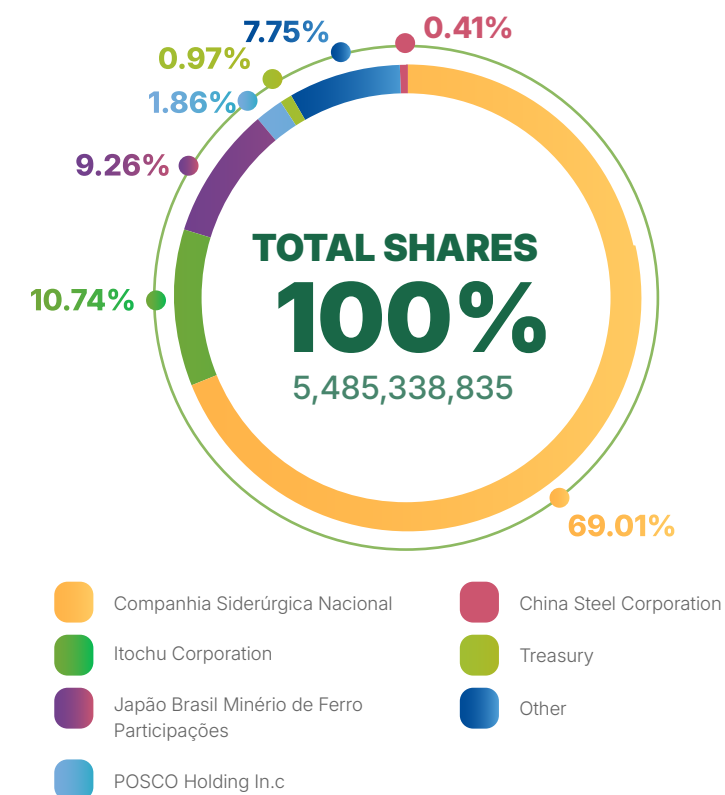


→ CSN Mineração's office at Avenida Brigadeiro Faria Lima, a strategic hub for corporate operations – São Paulo (SP)



Share ownership

CSN Mineração's entire share capital is subscribed and fully paid, consisting exclusively of common, book-entry shares with no par value. Each common share entitles the holder to one vote at General Stockholders' Meetings, in line with CSN's approach to transparent and participatory governance.



¹ Reporting to the CSN group.

Ethics and Compliance

CSN Mineração's Compliance Program is a core pillar of our governance structure, ensuring that both employees and external partners act ethically, responsibly, and in strict compliance with applicable laws and our policies. Serving as the first line of defense against bribery and corruption, this program comprises robust prevention, detection, and remediation mechanisms along with ongoing assessments of corruption-related risks throughout our operations.

The CSN Group [Code of Conduct](#) is the centerpiece of our Compliance Program, articulating our commitment to human rights, zero tolerance for human rights violations, and upholding ethics, transparency, and integrity. The Code outlines the daily conduct expected from employees, executives, and business partners across CSN Group's operations, including CSN Mineração.

Annual mandatory training is provided to all employees on the Code of Conduct, [Anti-Corruption Policy](#), and other components of the Compliance Program. These training programs address essential topics including harassment, discrimination, diversity, conflicts of interest, human rights, and data protection, promoting a safe, inclusive, and ethical workplace aligned with international best practices. Another key initiative to promote ethical behavior is our Compliance Champions program, which engages representatives from diverse departments to champion ethical principles in daily operations.

Our Whistleblower Channel is a key element of the Compliance Program. It is available 24/7 and ensures complete confidentiality and anonymous reporting on request. The channel is managed by an external and independent firm, which ensures data security and impartial handling of reports. Reports are collated and forwarded to the CSN Group for review, investigation, and appropriate action when necessary, in line with our commitment to transparency and ethics.

Managing Conflicts of Interest

CSN Mineração takes a rigorous approach to preventing and managing conflicts of interest, ensuring that all decisions are made ethically and transparently. This approach is essential to preserve the integrity of operations and strengthen stakeholder trust.

The CSN Group Code of Conduct sets forth clear guidelines for all employees, Board members, and Executive Officers. In addition, CSN Mineração enables any person—whether internal or external—to report suspected conflicts of interest through our established reporting channels.

How to Access the Whistleblower Channel



By phone: 0800 884 2006 (Brazil)

By Email: canal_denuncia@csnmineracao.com.br

Via Website: www.canalconfidencial.com.br/csn
(available in Portuguese, English, German, and Spanish)

By Mail:

Attn: Risk and Compliance
Estrada Casa de Pedra, s/ nº – Zona Rural Caixa Postal
101 Congonhas (MG) – Brazil CEP 36415-000

For questions or additional compliance information:
compliance@csn.com.br

Risk Management and Audit

Our risk management practices are governed by a Risk Management Manual aligned with leading global standards such as COSO (Committee of Sponsoring Organizations of the Treadway Commission) and ISO 31000. CSN's risk management practices are structured around the three lines of defense model, ensuring a comprehensive and coordinated approach to identifying and mitigating risks and opportunities.

Strategic, operational, climate-related, ESG, financial, and regulatory risks are identified and documented in a Risk Matrix. Each risk is assessed on likelihood and potential impact. Based on this assessment, business units and departments develop specific plans to mitigate or control risks. The Audit, Risk, and Compliance team oversees the entire process, ensuring efficient and transparent risk governance. The following risks are considered strategic:

1) Digital security and cyber attacks

2) Climate change and the energy transition

3) Market volatility

4) Impacts on the supply chain

Climate and Nature-Related Risks

CSN Mineração has embedded climate and nature-related risks into our corporate risk management processes, recognizing the increasing importance of these issues for our business. In 2022, CSN completed climate scenario assessments following the guidelines of the Task Force on Climate-Related Financial Disclosures (TCFD).

In 2023, we consolidated these climate risk assessments into a comprehensive Climate and Nature Risk Matrix, applying the Locate, Evaluate, Assess, Prepare (LEAP) methodology in line with TNFD (Taskforce on Nature-related Financial Disclosures) guidelines.

We also began developing a governance framework for nature-related action plans, creating robust capabilities to oversee and continuously improve environmental strategies. Both climate and nature-related risks are now integrated into CSN's enterprise-wide risk matrix, ensuring a holistic and consistent approach to corporate risk management.

The CSN Group Climate Action Report, which also covers CSN Mineração, was first published in 2023 and is updated biennially. The report provides a detailed account of identified risks and opportunities, modeled climate scenarios, and governance structures supporting the ongoing evolution of climate risk management.

→ A protected area maintained by CSN Mineração

Adaptation Plan

In 2024, we completed a Climate Vulnerability Assessment and initiated the development of a Climate and Nature Adaptation Plan, which is scheduled for completion in 2025 for the Casa de Pedra operation. Developed in line with ISO 14090, the plan will ensure that CSN Mineração is well-prepared for future climate and environmental challenges.



RISKS:

Topic	Risk factor	Time horizon
Climate	Increased intensity and frequency of extreme rainfall events	Long term
	Changes in wind patterns	Long term
	Carbon pricing regulation for international maritime transportation	Medium term
Nature (physical)	Natural events potentially effecting dam safety	Long term
	Reductions in water availability or quality due to third-party activities in the same watershed	Long term
Nature (transition)	External stakeholder pressure for low environmental impact production, especially regarding air quality	Medium term
	Extended timelines for new projects and licensing processes due to stricter regulatory requirements	Medium term

OPPORTUNITIES:

Topic	Opportunity	Time horizon
Climate	Construction of a new plant to process iron ore for use in the production of direct-reduced HBI and DRI	Medium term
	Development of a rain and wind management plan to reduce exposure during critical periods	Short term
Nature	Efficient resource use through circular economy practices and the development of new products from mining tailings or waste rock	Short term
	Ecosystem restoration leveraging nature-based solutions (NbS) to lower reclamation costs	Long term

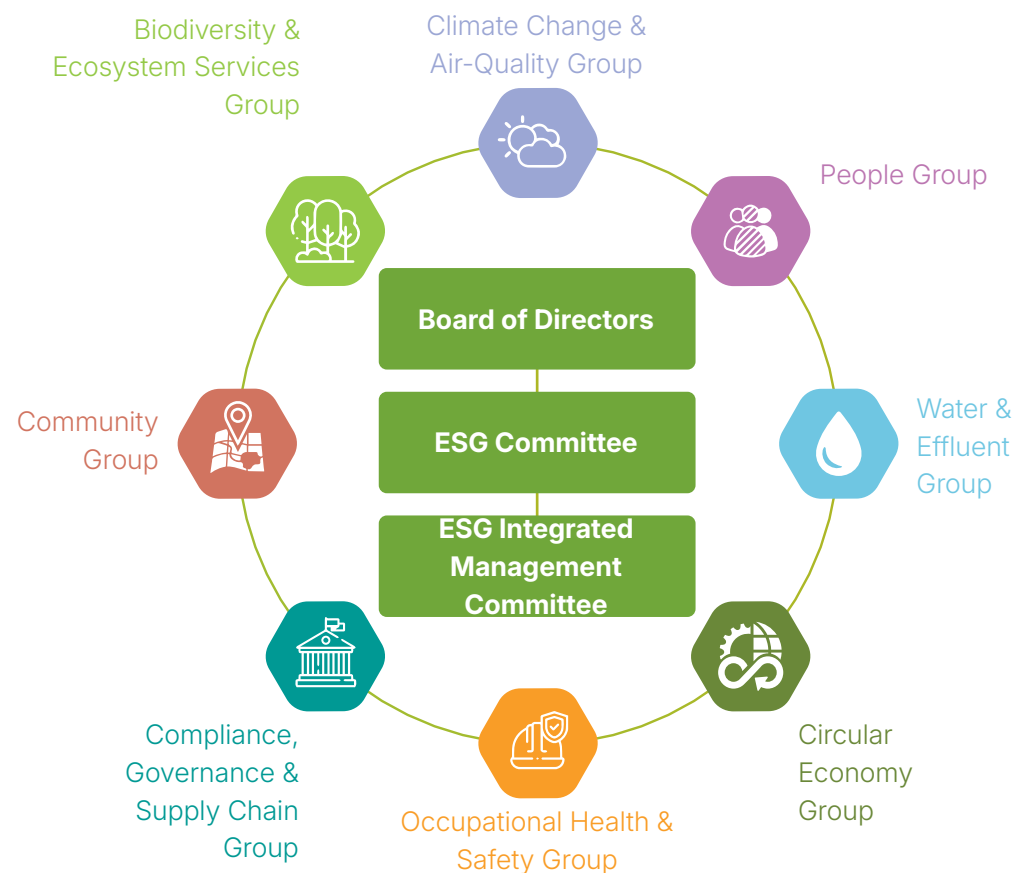
Risks and opportunities are managed **using an integrated approach**

ESG Management

CSN Mineração has a robust ESG management framework aligned with the CSN Group's governance structure, ensuring a comprehensive and integrated approach to assessing sustainability risks, opportunities, and impacts. CSN's [Sustainability Policy](#), approved by the Board of Directors, formalizes CSN's ESG management guidelines.

The ESG Committee, comprising 19 executives and key leadership from the CSN Group, facilitates multidisciplinary and collaborative evaluations of progress on our material topics. The ESG Committee's management and the definition of the ESG strategic plan are overseen by the Integrated ESG Management Committee—a collaborative body formed by the Sustainability Department and CSN Inova Bridge.

ESG GOVERNANCE STRUCTURE



Management Systems

CSN Mineração is constantly investing in environmental improvements, driving safer and more sustainable operations. In 2024, CSN Mineração allocated R\$ 57.8 million in capital expenditure (CAPEX) and R\$ 23.7 million in operational expenditure (OPEX) to environmental initiatives. These investments have been applied toward initiatives like tailings management improvements, emissions reduction, water efficiency improvements, and ecological restoration, ensuring alignment with internationally recognized best practices.

The quality component of the IMS is certified to ISO 9001 for our Casa de Pedra mine and TECAR port terminal, ensuring our operations meet the highest standards of quality.

All CSN Mineração sites are ISO 14001 certified, reflecting our commitment to best-practice environmental stewardship. The health and safety component is compliant with ISO 45001, which also informed the development of our [Occupational Health and Safety Management Manual](#), designed to prevent risks and avoid incidents and injuries involving employees, contractors and communities potentially affected by our operations.

ESG Ratings Performance

In 2024, we continued to evolve our ESG practices and this was reflected in our ESG ratings and certifications.

S&P Global

In sector evaluations, **CMIN is ranked among the top 8% globally in the mining and metals industry.**



SUSTAINALYTICS

CMIN ranks in **8th** place.



People and **HUMAN RIGHTS**

As of 2024, CSN Mineração had a workforce of 7,796 people. We are also supported by 4,342 contractors, including 305 in administrative roles and 4,037 in operations. Their engagement and dedication are crucial to achieving strategic objectives and ensuring operational excellence.

Ongoing professional development is a core pillar of CSN's people management model. Through the CSN Corporate University, employees benefit from a library of more than 150 on-demand courses and 64 virtual content titles, empowering them to shape their own learning journeys. These courses are supplemented by in-person training. In 2024, five new training schools were launched—the School of Excellence, Innovation

School, Business School, ESG School, and Leadership School—to deliver high-quality, strategic training aligned with corporate objectives.

For example, the ESG School provides a mandatory training track that includes training on material sustainability topics. One of the highlights from the year was the rollout of the ESG Fundamentals course, a required training module for all CSN Group employees.

A key element of our people management strategy is our "People Cycle" program, which aims to drive professional development and identify talents with leadership potential across business segments.



Talent Acquisition and Selection

CSN Mineração uses a structured approach to attracting and selecting talent, ensuring new hires align with our organizational culture. We provide dedicated platforms for the inclusion of young professionals, with our Apprentice, Internship, and Trainee Programs as the main gateways for new talents.

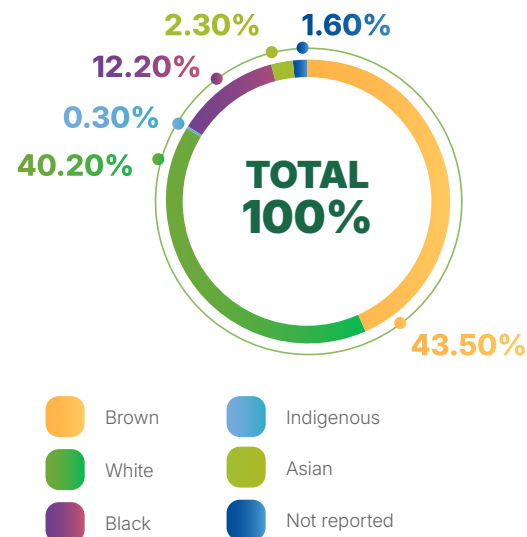
All these programs are carefully designed to ensure equal opportunities regardless of gender, ethnicity, or any other personal trait, cultivating a workplace free from discrimination. Beyond entry-level programs, CSN Mineração also actively pursues strategies to attract seasoned professionals. Job openings are published on the Company's website and internal communication channels, with internal mobility given priority.

CSN Mineração's compensation policy is designed to ensure fairness and proper recognition of employee performance. To determine compensation, we conduct wage benchmarking surveys against companies of similar size and industry segments. This ensures that our compensation packages remain aligned with market best practices while fairly recognizing the value of each employee's role and contributions.

WORKFORCE BY GENDER IN 2024¹



WORKFORCE BY RACE IN 2024



Diversity, Equity, and Inclusion

CSN Mineração is committed to increasing the representation of women, black employees, people with disabilities (PwDs), and other minority groups across our operations, ensuring that all employees have equal opportunities for professional growth and access to leadership positions.

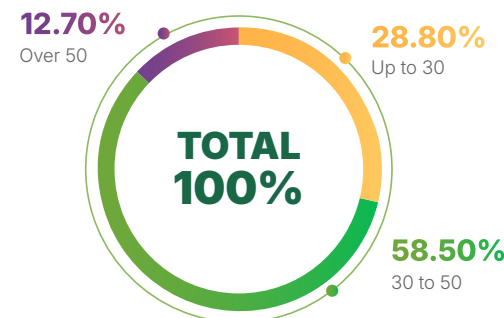
We have established a dedicated Diversity, Equity, and Inclusion (DE&I) management team responsible for coordinating engagement and training programs and driving action plans throughout all business units.

In 2024, women made up 26% of our workforce, exceeding our target one year in advance, and representing a 100% increase compared to the baseline. This includes employees under permanent

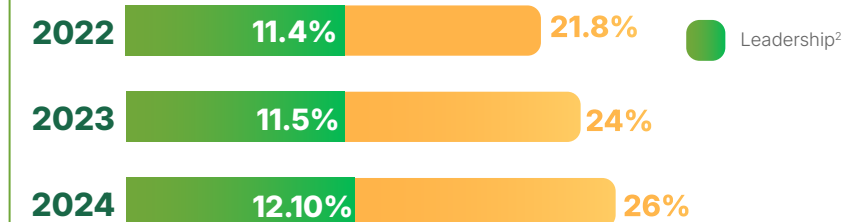
contracts (CLT), apprentices, interns, and participants of the *Capacitar* program. The higher representation reflects CSN Mineração's commitment to providing equal opportunity and strengthening the presence of women in all areas.

One of the flagship initiatives contributing to this milestone is our *Capacitar Mulheres* program, which offers free vocational training courses for women in municipalities neighboring CSN Mineração's operations. In 2024, CSN Mineração launched the *Primeira Liderança* ("First Leadership") program, designed to develop employees identified as high-potential successors for supervisory roles, benefiting over 90 participants. As part of this initiative, the CSN Group launched *EMPODERA*, a dedicated track exclusively for women that provides additional leadership development training.

WORKFORCE BY AGE GROUP IN 2024



WOMEN IN THE WORKFORCE¹



¹ Includes direct employees in Brazil as well as participants in the Apprentice, Internship, and *Capacitar* programs. The data excludes positions filled through insourcing transitions, as these transitions do not affect overall headcount. These figures differ from GRI disclosures as the GRI data does not cover the Internship Program.

² Includes the following levels: Supervisors, Coordinators, Middle Managers, General Managers, and Executives.

Health, Safety and Well-Being

Occupational safety is a non-negotiable value at CSN Mineração, and is a number one priority at all levels of the organization. We have a robust management system in place to safeguard the health, well-being, and safety of both employees and contractors, and to minimize impacts on local communities and the environment. An [Occupational Health and Safety Management Manual](#), in conjunction with a [Supplier Health and Safety Manual](#), outlines requirements and procedures for employees and suppliers to follow. Safety is monitored via the Occupational Health and Safety Management System (OHSMS), which covers 100% of employees and contractors and tracks progress on action plans and key performance indicators. In 2024, CSN Mineração provided over 89,000 hours of Occupational Health and Safety (OHS) training, including 2,500 hours specifically dedicated to emergency response, as part of our commitment to continuous workforce training.

→ A toolbox talk



AGIR Program

A strategic initiative designed to reduce high-potential risks, prevent fatalities, and strengthen our Company-wide safety culture. The program aims to foster active leadership engagement in accident prevention, firmly establishing safety as a non-negotiable value for all levels of management. Implemented across all CSN Group sites, the AGIR Program is based on three core pillars: "Occupational Health and Safety Culture," "Critical Risk Management," and "Process Safety." As a direct outcome of this approach, CSN Mineração marked its eleventh consecutive year without fatalities in 2024. Potential Serious Injury and Fatality (PSIF) incidents were reduced by 71.1% compared to the previous period, exceeding our target for 2030. CSN Mineração ended 2024 with an injury frequency rate of 0.99 for CAF+SAF events (lost time and no-lost-time incidents), an 8.6% reduction compared to 2023.

OHSMS Core Elements

COMMITMENT AND LEADERSHIP

Leaders play a central role in the OHSMS, acting proactively to foster a safe working environment. Active engagement at all levels is encouraged, with a commitment to making safety part of daily routines.

COMMUNICATION

Effective communication is crucial to ensure that all stakeholders, including employees and suppliers, have the information they need to mitigate risks and prevent accidents.

STANDARDS AND PROCEDURES

Clear standards and procedures ensure that all tasks—operational or administrative—are performed in line with established safety guidelines.

BEHAVIORAL DEVELOPMENT

Ongoing training and hazard prevention are core priorities, helping to drive continuous improvement in safety practices.

RISK MANAGEMENT

Risk management involves detailed assessments of risks associated with processes, activities, and facilities, with a goal of controlling or eliminating potential health and safety impacts.

CHANGE MANAGEMENT

Change Management ensures that any modifications to processes or work environments are managed in a controlled manner, keeping risks within acceptable levels.

LEGAL COMPLIANCE

We ensure strict compliance with all occupational health and safety regulations, supported by thorough planning to minimize risks and hazards.

PLANNING

Our planning process uses a structured approach to ensure that strategic, operational, and day-to-day actions are properly planned to minimize impacts and ensure process risks and hazards are controlled.

CONTRACTOR MANAGEMENT

This element ensures that suppliers and contractors conform to CSN's safety policies, including contractual obligations on compliance with the Supplier Health and Safety Management Manual.

COMPETENCIES AND SKILLS MANAGEMENT

An ongoing process of training, qualification, certification, and onboarding, ensuring that employees and contractors are fully prepared to perform their duties under organized, safe and healthy workplace conditions.



→ A young participant
in our Garoto
Cidadão program -
Congonhas (MG)

**CSN Mineração reaffirms
its commitment** to upholding
human rights through
its operational practices
and corporate policies

Human Rights

Our approach to human rights management spans multiple fronts, with the first being identification and mitigation of potential risks related to our operations. In 2022, in partnership with the Fundação Getúlio Vargas (FGV) Center for Human Rights and Business, CSN Mineração began an exercise to identify risks related to human rights violations.

In 2023, CSN completed its Human Rights Due Diligence (HRDD) in Congonhas (MG), in line with the United Nations Guiding Principles on Business and Human Rights. The assessment evaluated aspects such as Women, Children, Traditional Communities, and Migrant Workers, identifying 37 potential adverse impacts, of which 14 were prioritized. These were addressed by 49 action plans and 95 mitigation initiatives.

As of 2024, 56% of these action plans had been completed or were underway, strengthening our commitment to human rights protection. A mitigation plan is currently in progress, and due diligence is conducted on contractors, subcontractors, and suppliers, ensuring comprehensive monitoring across the value chain.

In 2024, CSN Mineração delivered more than 12,000 hours of human rights training to employees, covering topics such as preventing discrimination, harassment, and labor violations, as well as ethical dealings with suppliers and partners. For our security team, we have developed a human rights-focused training program to ensure that security operations respect human dignity and fundamental rights.

Within our supply chain, suppliers play a critical role in upholding and promoting human rights. CSN Mineração's Procurement department applies a rigorous supplier screening process that mandates that all suppliers formally comply with our Code of Conduct, Anti-Corruption Policy, and [General Terms and Conditions for the Provision of Services and Materials](#). We carry out regular integrity assessments—including Compliance and Anti-Corruption Background Checks, Know Your Customer (KYC) processes, and environmental compliance reviews—to ensure that all business partners conform to CSN Mineração's human rights expectations.

Value Chain

In 2024, CSN Mineração transacted R\$ 8.28 billion in spending on 1,412 suppliers of different sizes and sectors. Our supplier network comprises local, national, and international suppliers that provide products, services, raw materials, and a wide range of inputs, in addition to logistics partners, subcontractors, and third-party service providers. Overall, 28.1% of our supplier spend went to material suppliers, while 71.9% went to service providers.

We prioritize local suppliers to the extent possible, strengthening regional economies where we operate. In 2024, 39.5% of total supplier spend went to in-state suppliers, especially for service provision.

At CSN Mineração, supplier management is governed by high standards of ethics and compliance. All suppliers undergo a formal screening and assessment process, and must comply with the CSN Group's Code of Conduct,

39.5% of total
supplier spend went
to **in-state suppliers**

Anti-Corruption Policy, and notarized General Terms and Conditions for the Provision of Services and Materials.

In 2024, CSN Mineração took an important step with the initial implementation of ISO 20400 - Sustainable Procurement, which provides guidelines on integrating sustainability into procurement processes. Working with CSN *Inova Bridge*, the Sustainability team, and an external specialized consultancy, the Procurement team conducted an assessment that indicated 84% compliance with the standard's requirements.



Supply Chain ESG Risk Matrix

The Procurement department, working with the Sustainability team, CSN Inova Bridge, and an external consultancy, has developed a Supply Chain ESG Risk Matrix to support continuous improvement efforts. The matrix segments suppliers based on ESG and reputational risks, classifying the supply chain into 48 high-level categories, split between materials and services. This structure enables more precise monitoring and prioritization of corrective and development actions across the supply base.



1,616

CSN Group suppliers
were **assessed**

Compliance Assessment during Supplier Onboarding

CSN Mineração has a rigorous compliance assessment process to ensure that partners and suppliers meet the highest ethical and regulatory standards. The assessment addresses factors such as the supplier's industry, country of operation, ownership structure, ultimate beneficiaries, litigation and sanction history, and media exposure related to human rights and labor violations.

This due diligence uses a risk matrix to identify suppliers at the highest risk for non-compliance. Suppliers are also classified within Brazil's National Classification of Economic Activities (CNAE) to identify critical suppliers.

In 2024, the CSN Group conducted due diligence on a total of 1,616 suppliers, including 107 CSN Mineração suppliers. This due diligence effort covered over 5,000 individuals and legal entities, underscoring CSN's commitment to maintaining a value chain that operates to high ethical and legal standards.

Local Communities

CSN Mineração engages closely with neighboring communities, continuously assessing and monitoring both potential and actual impacts that may affect them. These assessments inform the development of mitigation plans and the implementation of mechanisms to receive and address complaints and concerns from community members.

Key potential impacts include noise and particulate matter emissions, which can affect residents' quality of life, in addition to potential adverse effects on human rights. To support environmental monitoring efforts, CSN Mineração operates an Air Quality and Noise Control and Monitoring Program, using both automatic and semi-automatic stations. To help mitigate dust generated by truck and equipment movement, mine roads are continuously sprayed with water as another ongoing practice.

In addition to mitigation measures, CSN Mineração offers several engagement and communication channels, such as the “Green Line” (see contact details below). Another important initiative is our Community Support Center near the Casa de Pedra Mine, operated by the CSN Foundation. This space operates as an open and accessible channel for receiving community concerns, providing information to residents, raising awareness about dam safety, and hosting initiatives aligned with local needs. Community engagement is

Green Line

Phone: 0800 282 4440

E-mail: meio.ambiente@csn.com.br

also amplified through our Community Committee, which includes 23 local representatives—such as community leaders and NGOs—and meets bi-monthly.

In addition, CSN Mineração works to raise awareness among employees and local communities through our Environmental Education Program (PEA), implemented in Congonhas, Belo Vale, and Ouro Preto. The PEA delivers lectures, workshops, and events in public schools. In 2024, the program carried out 738 initiatives with a total of 17,776 participants, including employees, suppliers, and community members from Congonhas, in an investment of R\$ 420,000.



→ Young participants
in our Garoto
Cidadão program

CSN Foundation

The CSN Foundation serves as a bridge between CSN Mineração and local communities, with a mission to promote social, educational, and cultural transformation. In 2024, the Foundation invested R\$ 66 million in social responsibility initiatives and scholarships, directly benefiting 6,000 young people in the areas where we operate. Through a territorial approach, the CSN Foundation takes local dynamics into account to develop more inclusive and targeted initiatives that drive lasting social transformation. Aligned with ESG principles and the Sustainable Development Goals (SDGs), the Foundation promotes sustainable practices in the areas where we operate, reaffirming CSN Mineração's commitment to socioeconomic development and building community trust.

For more information, visit <https://fundacaocsn.org.br/>.

Tailings Dams and **MINERAL CO-PRODUCTS**

CSN Mineração is constantly improving its operations to minimize environmental impacts, with a particular focus on tailings management. Mining activities generate two primary mineral waste streams: waste rock, consisting of overburden with no economic value for mining, and tailings, which result from iron ore beneficiation. To reduce tailings generation, CSN Mineração has implemented advanced technologies, including High-Intensity Magnetic Concentrators (HIMCs), which improve iron recovery and significantly reduce waste volumes.



Dam Decommissioning

CSN Mineração has made substantial progress in our commitment to fully decommission our tailings dams. In 2020, we transitioned to dry stacking of tailings, a technique that eliminates the need for conventional dams, enhances operational safety, and reduces environmental impacts. Following a rigorous schedule, CSN Mineração is decommissioning and reclaiming all its dams, regardless of the raise method.

In 2024, all dams had their structural stability certified by independent external audits, in compliance with current

regulations. All dams are classified at Hazard Level Zero, indicating they are stable and free from imminent risk. Although there have been no reported incidents involving any of our dams, we take a serious approach to dam safety as part of our ESG agenda, recognizing that it is essential for operational integrity and for safeguarding the environment and nearby communities.

Our dam monitoring process incorporates state-of-the-art technology and multiple safety measures to detect and address any potential issues swiftly.

DAM DECOMMISSIONING SCHEDULE

		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031+
Casa de Pedra	B5	✓											
	B4												
	Casa de Pedra												
Pires	Vigia Auxiliary Dam			✓									
	Vigia Dam				✓								



Safety Management and Emergency Response Plans

CSN Mineração has comprehensive Dam Safety Plans and Mining Dam Emergency Action Plans (PAEBM) for 100% of our tailings storage facilities. These plans are essential for managing potential emergencies and ensuring a swift and effective response when needed. They also serve as a reference for public authorities and civil defense agencies to design their own emergency and safety protocols, in order to protect communities, the environment, and cultural heritage in the event of an emergency.

BIODIVERSITY



CSN Mineração has implemented a robust biodiversity management framework, governed by our [Diversity Policy](#), to identify, assess, and address biodiversity-related risks and opportunities. The policy addresses major drivers of biodiversity loss, including land-use change, overexploitation of species, climate change, pollution, and invasive species.

In 2022, as a member of our parent company CSN, we became an early adopter of the Taskforce on Nature-related Financial Disclosures (TNFD) recommendations. In conducting risk assessments, we use frameworks such as IFC Performance Standard 6, the Global Reporting Initiative (GRI 101 – Biodiversity), ISO 31000-based environmental risk analysis, and the Locate Evaluate Assess and Prepare (LEAP) methodology.

One of the key tools developed to enhance biodiversity management is our Biodiversity Index for Operations (BIO), a methodology that consolidates indicators and assessment data to standardize biodiversity monitoring and produce regular tracking reports.

BIO assesses biodiversity levels within a given area using a Condition Class ranking system that ranges from 1 to 10. This classification is based on three main factors: the area of each identified habitat type; the ecological condition of these habitats, including improvements and threats; and the uniqueness and ecological relevance of each habitat within its regional context.



→ An area preserved by CSN Mineração

Preservation of Native Vegetation

CSN Mineração plays a significant role in environmental conservation, managing approximately 8,300 hectares of protected areas. These areas include native vegetation, sites under ecological restoration, Permanent Preservation Areas (APP), Legal Reserves (RL), and a Private Natural Heritage Reserve (RPPN), all within the state of Minas Gerais.

The Casa de Pedra site, located in Congonhas (MG), is our largest operation with significant potential impacts on biodiversity. This mine is situated near ecologically sensitive areas, including the Cachoeira Ecological Park and the Poço Fundo RPPN. CSN Mineração follows a strict mitigation hierarchy: avoid encroachment into natural areas whenever possible; minimize effects when avoidance is not feasible; rehabilitate and restore impacted areas; and offset unavoidable damage through specific biodiversity-focused initiatives.

All of our mine sites are covered by mine closure and reclamation plans, which are regularly updated to ensure disturbed land is effectively reclaimed. CSN Mineração also assesses impacts on ecosystem services, such as air quality, climate regulation, water availability, and erosion control.

In addition, we conduct ongoing monitoring of fauna and flora, implement forest fire prevention measures, build drainage systems, and install sediment containment structures to protect ecosystems.

Climate CHANGE

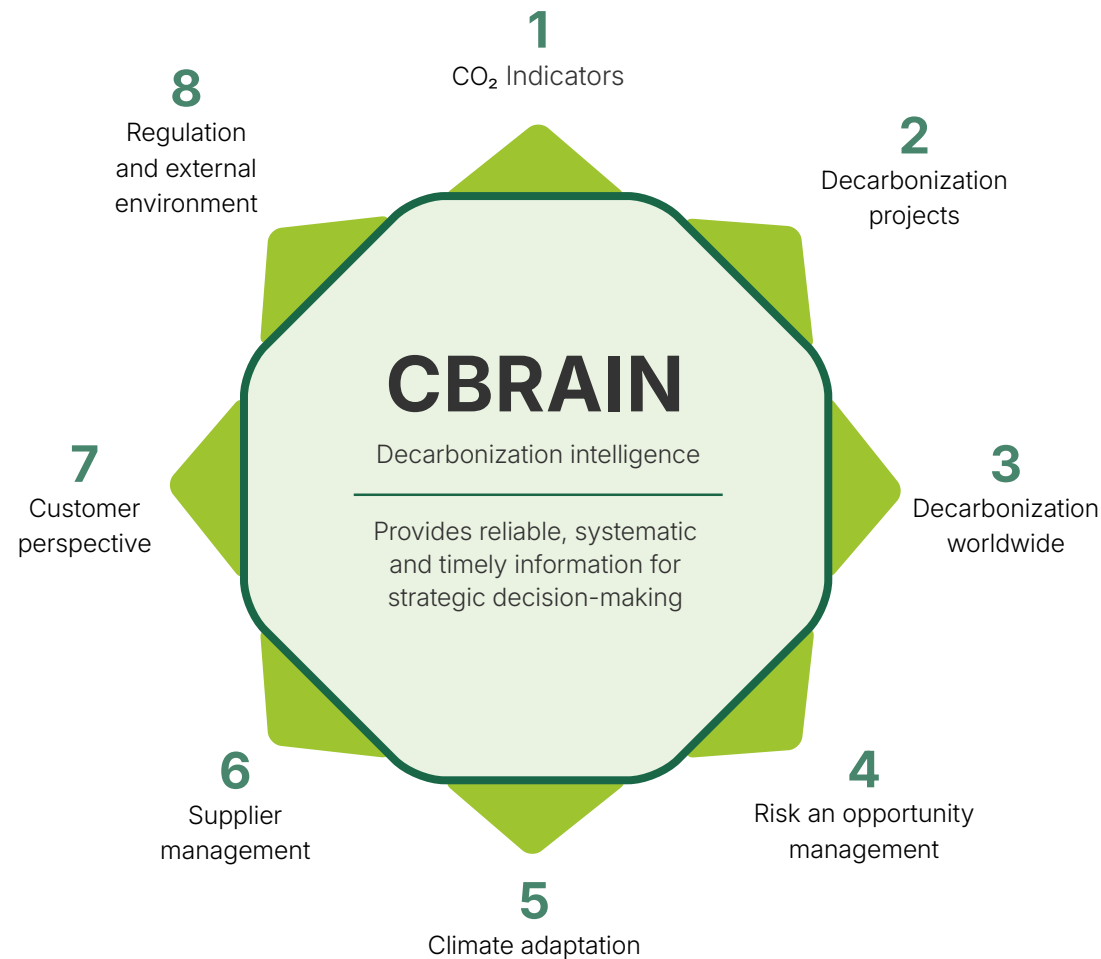
As part of our commitment to tackling climate change and lowering our carbon footprint, we have set a target to reduce our scope 1 and 2 emissions by 30% by 2035, and to achieve net zero by 2044.

To achieve these goals, CSN Mineração has developed a robust climate governance framework that embeds sustainability in strategic decisions, ensuring our practices align with internationally recognized environmental standards.

In 2024, the CSN Group developed a strategic management solution called CBRAIN, which consolidates Decarbonization and Climate Change information on a single platform, providing a strategic, systemic vision.



Multiple management levels are involved in ensuring our **climate strategy is effective**



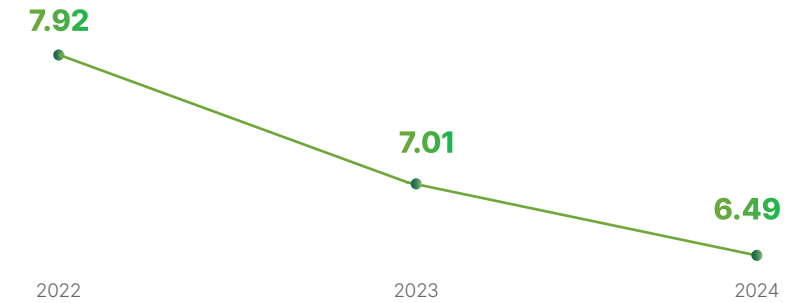
Climate Strategy

Guided by the principles of Mitigation, Adaptation and Stakeholder Engagement, our initiatives aim to incorporate sustainability into our operations and processes, in line with global climate commitments. To transform our businesses toward a low-carbon economy, our parent company, the CSN Group, has outlined a robust roadmap of initiatives in its Climate Action Plan. This plan comprises a set of 30 strategic initiatives and 180 different activities to mitigate environmental impacts, improve climate adaptation, and enhance stakeholder engagement.

CSN Mineração is an integral part of this plan, with an ongoing pipeline of initiatives and projects to reduce greenhouse gas emissions, preserve natural resources, and develop innovative climate adaptation solutions.

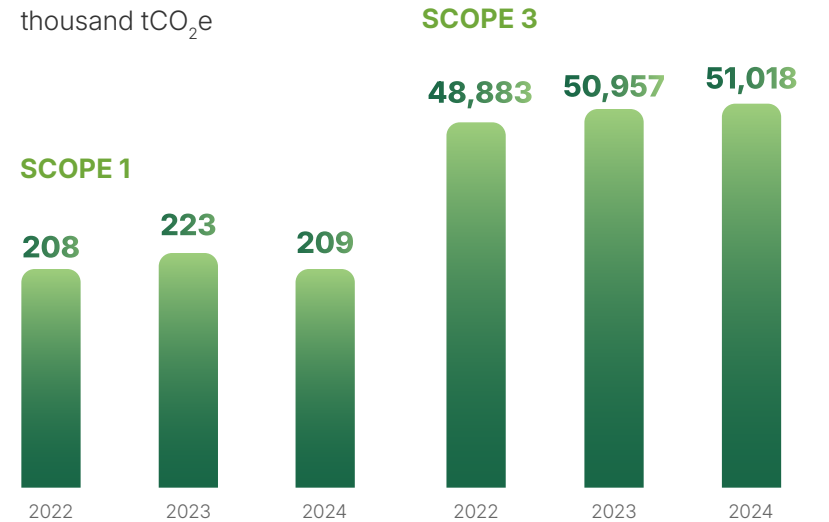
GHG EMISSIONS INTENSITY

kgCO₂e/metric ton of ore



GHG EMISSIONS INVENTORY¹

thousand tCO₂e



¹ CSN Mineração generates zero Scope 2 emissions as its electricity supply is 100% renewable.



→ An electric truck operating in Congonhas (MG)

Mitigation

The Mitigation pillar comprises a set of initiatives supporting CSN Mineração's decarbonization efforts, with a focus on reducing emissions and implementing sustainable projects. Activities as part of this pillar also include developing and continuously updating industry roadmaps and exercising oversight of decarbonization initiatives, with a particular focus on data quality.

9
electric equipment units
currently operating in the fleet



We have commissioned annual independent emissions inventories prepared in accordance with Brazilian GHG Protocol Program guidelines. CSN Mineração's decarbonization roadmap is structured into three stages—Blue, Olive and Green, with a goal of achieving net zero in iron ore production by 2044.

In 2024, CSN Mineração operated a fleet of nine fully electric pieces of equipment, including an excavator, a wheel loader, and seven trucks, a significant step forward in our effort to gradually replace diesel vehicles with battery-powered alternatives.

Another highlight from the year was our Fuel Management Plan, designed to optimize off-road truck fueling operations at Casa de Pedra. Deploying mobile fueling stations avoids the need for trucks to travel to a fixed station, eliminating downtime and waiting queues.

Adaptation

This pillar is focused on identifying climate-related risks and opportunities to inform measures to boost resilience

9%
reduction in emissions intensity
from the baseline year



to different climate scenarios. A key milestone in 2024 was the integration of our climate risk and opportunity assessment model with its counterpart nature-related risk model, resulting in a unified risk matrix.

In 2024, CSN completed a comprehensive Climate Vulnerability Study based on projected climate scenarios to predict impacts on our operations. Building on these findings, CSN Mineração will develop a Climate Adaptation Plan that outlines strategies to enhance resilience.

Stakeholder engagement

The goal of this pillar is to establish partnerships to continuously integrate external perspectives into our strategy, such as market trends, emerging technologies, and public policies, all of which are critical for aligning our operations with global best practices and future demands. Stakeholder engagement is a key imperative to ensure that CSN stays ahead of changes and evolves sustainably.

ECO-EFFICIENCY



Water and effluents

CSN has advanced practices in place to optimize water usage and manage the effluents generated across our operations, ensuring water security while minimizing environmental impacts.

Supporting this commitment, CSN Mineração continuously invests in technologies and initiatives around water conservation, reuse, and enhanced water stewardship. At our Casa de Pedra and Pires sites, we operate 47 control systems and 28 monitoring stations. Improved water recycling at the central plant supported a 22% reduction in water withdrawals and a 23% reduction in water intensity.

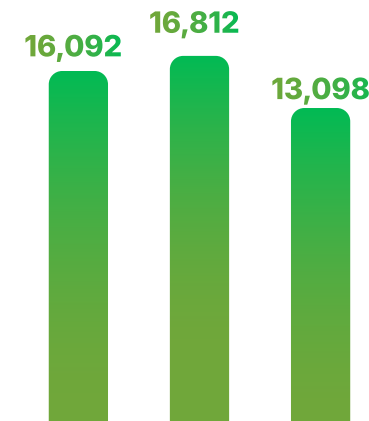
We conduct controlled discharge of water and liquid effluents in strict compliance with the quality standards set forth in COPAM/CERH Joint Normative Resolution 08/2022 and other applicable regulations.

As part of our water efficiency strategy, CSN has set an ambitious target to maintain water withdrawal intensity below 0.45 m³ per metric ton of ore produced by 2032. We have also set a target to reach a 94% water recycling rate at our Casa de Pedra site by 2032, with significant progress already made—reaching 92% in 2024.

In 2024, CSN Mineração implemented operational improvements in water management at Casa de Pedra, optimizing water intake processes to increase overall efficiency. In 2024, we reassessed our water-related risks using the Aqueduct Water Risk Atlas platform, confirming that none of our sites are located in areas facing water scarcity. CSN Mineração also supports spring conservation

and restoration projects in the Paraopeba River Basin, working in partnership with the State Environmental Department to help improve water availability and quality in the region.

WATER WITHDRAWAL (ML)



→ A water reservoir on one of the company's properties

Improved water recycling at the central plant supported a **22% reduction in water withdrawals** and a **23% reduction in water intensity**

Air Quality

We are constantly refining our practices to minimize particulate (PM) emissions and mitigate the environmental impacts of our mining and logistics operations, with a strong focus on air quality.

To reduce particle emissions, CSN Mineração has implemented strict controls and advanced technologies. Adding to our existing emissions control provisions—fixed spraying systems at the mine and plant, mobile water trucks, polymer application, nylon mesh on pit walls, laterite cover on product stockpiles, and hydroseeding on waste and tailings piles—we acquired 17 new water trucks in 2024, effectively doubling the spraying capacity of our fleet.

As another highlight from the year, we implemented a predictive technology that analyzes temperature and wind patterns to identify areas at higher risk of particulate emissions, supporting a more agile and proactive response.



→ A protected area
maintained by
CSN Mineração –
Congonhas (MG)

About This Report

This condensed version provides an overview of key highlights from the 2024 CSN Mineração Integrated Report. For a more comprehensive view of our performance and initiatives, please refer to the [full report here](#) and the [CSN Mineração ESG Databook](#), which includes data aligned with the GRI, SASB, TCFD, and TNFD frameworks.

Credits

GENERAL COORDINATION CSN Mineração

Sustainability, Health, Safety, Environment, and Assets
CSN Inova
Institutional

CONSULTING, CONTENT, DESIGN AND PROOFREADING

Grupo Report

PHOTO CREDITS

CSN image bank