

# ESSENTIALS 2025

**Presentation of the Eramet group** 

Eramet, a global player in the responsible beneficiation of metals

### **OUR CONVICTION**

# The world is currently facing its greatest challenge ever:

ensuring the success of the energy transition and restoring the conditions for lasting harmony between humankind and the Earth. To achieve this transition, the world needs metals from responsible mines that respect life and their environment.

### OUR CORPORATE PURPOSE

We want to become a reference for the responsible transformation of the Earth's mineral resources for 'living well' together.

### **]**st

producer of highgrade manganese ore and refined manganese alloys in the world

### **]**st

nickel mine in the world in volume in Indonesia

4<sup>th</sup>

producer of zircon in the world

2024

Start-up of lithium production in Argentina



# **Our activities**

Manganese, nickel, lithium, mineral sands: Eramet extracts ores, which it sells or processes into metals that are essential to global economic development and the energy transition, while applying the highest standards in terms of corporate social responsibility.



Eramet is present throughout the manganese value chain: **extraction, processing and transport.** An essential component of steel, manganese is produced in Moanda, in Gabon, in the largest high-grade manganese mine in the world.

Eramet also produces manganese alloys in **6 plants** in Norway, France, the United States and Gabon.



A major player in the nickel industry, Eramet operates the largest deposit in the world, located on the Indonesian island of Halmahera, with its partner Tsingshan. The ore is used to produce low-grade nickel ferroalloy.

In New Caledonia, SLN\* operates **four mining centres** to produce nickel and operates the Doniambo ferronickel plant.



Eramet produces mineral sands in Senegal: titaniferous ores (ilmenite, rutile, leucoxene) and zircon. The concession extends for 100 kilometres along the Atlantic coast.

**Mineral sands** are mainly intended for the construction and decoration markets.



In Argentina, Eramet operates **one of the largest lithium deposits in the world**, located in the province of Salta at an altitude of 3,800 metres. The lithium present in the brine is extracted to produce lithium carbonate.

An **essential component** of electric batteries, lithium is essential for the energy transition. The Group is also studying lithium production projects in Alsace in France and in the Atacama region in Chile.

\* Since April 2024, Eramet no longer has any financial ties to SLN, to which it provides its operational support.

# Metals: invisible allies in our daily lives

Infrastructures, energy transition and everyday objects: the metals produced by Eramet are essential to our daily lives and to economic life. Here are some examples of their use.

### Energy

**Nickel** is an essential component of the stainless steel used for infrastructure and the energy transition. It is found in offshore wind farms, photovoltaic facilities, nuclear power plants and liquefied natural gas and hydrogen storage tanks.

**Lithium**, an essential element for stationary battery storage, enables the development of intermittent energies such as solar or wind power, and contributes to the development of smart grids.





In Senegal, we use **mineral sands** from which **zircon** and titaniferous ores, such as **ilmenite**, are extracted. Valued for its whiteness, opacity and resistance, **zircon** is used to make ceramic tiles for bathrooms and wash basins. **Ilmenite** is used to produce white pigments widely used in wall paints.

### Infrastructure and transport

Essential to the manufacture of steel, **manganese** is necessary for alloys used for infrastructure, construction, public transport, the automotive industry, tooling, etc. In Gabon, we operate the world's largest high-grade manganese ore mine.



### Daily life

Combined with chromium and other metals, **nickel** makes it possible to obtain stainless steel, which is widely used in many areas: the food industry (tanks, pipes, etc.), healthcare (surgical equipment), transport (trains, tank trucks, etc.), electronics and household appliances.



### **Electric mobility**



The **lithium** that we produce in Argentina is used in the lithium-ion batteries found in electric vehicles. Some of the nickel ore produced in Indonesia is used by energy component manufacturers, and the manganese produced in Gabon is also essential for certain types of batteries.



# **Our strategy**

With a diversified portfolio of assets, Eramet is well-equipped to deliver premium solutions tailored to the demands of this new era of metals. Its strategy is based on two sustainable growth drivers.





# Deploy an exemplary responsible approach

Eramet's corporate social responsibility is based on its **CSR roadmap, entitled "Act for Positive Mining"**. At the heart of this approach lies a vision: to go beyond environmental and social management and foster, wherever feasible, a positive impact for the Group's stakeholders and ecosystem, promoting a proactive and responsible approach centred on the continuous improvement of practices.



# Creating value via operational excellence

Eramet deploys, at Group level, the **Eramet Production System**, a management system designed to improve the productivity of operations and sustain positive results in terms of safety.

# Become a reference in responsible mining



## A continuous improvement CSR approach integrated into the strategy

In 2024, Eramet launched its "Act for Positive Mining" roadmap. Expected by employees, civil society, end consumers and the local authorities that issue operating permits, responsible mining is an ongoing **progress approach** that is integrated into Eramet's activities. It is assessed by rating agencies and independent audits, in particular according to the IRMA standard.

# IRMA, the most demanding responsible mining standard

#### In 2022, Eramet joined **the Initiative for Responsible Mining Assurance (IRMA)**.

This standard establishes the best practices on a industrial scale and meets the expectations of all stakeholders. Eramet aims to comply with its CSR requirements by having all of its mining sites audited by 2027. This audit is an opportunity to change its mining model and optimise the management and control of its impacts across the entire value chain, from exploration to post-mining.

# 100%

of Eramet's mining sites audited according to the IRMA standard in 2027

# Act for Positive Mining, the compass of our CSR actions



Our CSR roadmap is based on three areas covering all of Eramet's responsibilities and interactions. It indicates the course to be followed, with 10 objectives to be achieved over the 2024-2026 period and three by 2035.



Comply with the IRMA standard and audit every mining site – including JVs – by 2027

\* Compared to 2019 on Scopes 1 and 2



# Care for people

### Our challenges

Guaranteeing the **health and safety** of its employees is Eramet's top priority. In addition, as a multicultural group present in 16 countries, Eramet considers **diversity and inclusion** as an asset and acts to ensure a fulfilling environment for all by combating discrimination and harassment. To prepare for the future and attract talent, the Group relies on its new employer brand **"The new face of mining"**.



### Focus on 2 key actions

#### Safety: continuous improvement

As an industrial and mining company, Eramet places safety at the centre of its processes. In 2024, **the Group significantly improved its accident rate** to reach a level 0.7%. However, this good result was tarnished by serious accidents resulting in 4 deaths. These accidents occurred in peripheral areas and affected subcontractors. In 2025, these areas will receive particular attention.

### Eramet Beyond supports local economic diversification

The objective of the "Eramet Beyond for Contributive Impacts" programme is to support the economic diversification of the regions independently of the industrial activities carried out by the Group. By 2026, **Eramet Beyond aims to generate 6,000 jobs and train 500 young people**. Since 2022, it has supported and created 2,800 sustainable jobs around three areas: economic diversification, reduction of inequalities and environmental resilience.



projects in 5 countries







# Acting for the climate

### Our challenges

### Eramet is positioning itself as a key player in supporting the energy transition

Lithium and nickel are essential for the manufacture of rechargeable batteries, particularly for electric cars and renewable energy storage.

The growing demand for these metals offers development opportunities for the Group, thanks to the very significant mineral resources of the Centenario salar in Argentina and the Weda Bay mine in Indonesia.

### Eramet reduces its CO, emissions

by optimising its thermal pyrometallurgical processes, which account for most of its emissions. Our actions focus on three levers: sobriety and energy efficiency, decarbonisation of our activities and  $CO_2$  capture and storage, as well as its reuse in the circular economy.

-40%

Our absolute  $CO_2$  emission reduction target on Scopes 1 & 2 by 2035 (compared to 2019)



### Focus on 2 key actions

#### eraLow: decarbonise manganese alloys

With "eraLow", Eramet is positioning itself as a key player in the steel value chain, contributing to the decarbonisation of the steel industry. **The first manganese alloy with a low CO<sub>2</sub> footprint** that is verified and traced worldwide, this product offers steelmakers a solution to accelerate the decarbonisation of their products. eraLow is the result of a production process that meets the highest ESG standards in the sector. The first step towards the production of zero CO<sub>2</sub> emission manganese alloys, this approach builds trust and transparency throughout the value chain.

### A solar power plant project in Senegal

In Senegal, the Group is developing a hybrid solar power plant project on its Diogo mining site in partnership with JUWI Renewable.

#### This plant will produce 20 MW of solar energy, coupled with an 11 MW / 11 MWh battery system ensuring a stable power supply. The facility will cover approximately 20% of the site's energy needs, reducing its dependence on fossil fuels and its

reducing its dependence on fossil fuels and its carbon footprint, with 25,000 metric tons of  $CO_2$  avoided per year.



# Preserving biodiversity

### Our challenges

Aware that its activities have an impact on biodiversity and natural environments, Eramet aims to set an example by integrating the preservation of biodiversity into all its activities, reducing its water consumption and optimising the quality of its discharges. The Group is developing Biodiversity Action Plans on its sites for an overall net positive contribution to biodiversity by 2035. Its actions concern compensation for its residual impacts, establishment of avoidance zones and rehabilitation of affected areas. Other priority actions aim to develop research and innovation and to raise awareness among its stakeholders.

### Focus on 2 key actions

### Innovate and raise awareness about biodiversity

In Gabon, the Lékédi Biodiversity Foundation works with government partners, research institutes and NGOs to protect biodiversity. Four programmes aim to **protect species, restore habitats and raise awareness about environmental issues among young people**. Designed with WWF, the Gabon Green Generation by Lékédi programme raises awareness among Gabonese middle school pupils and encourages them to take concrete action in favour of biodiversity.

### **Open Innovation for biodiversity**

The 6<sup>th</sup> Open Innovation challenge, launched by Eramet, is aimed at researchers, start-ups and SMEs. The 2024-2025 edition focuses on the identification of **solutions to detect, monitor and contain invasive species of flora and fauna** as part of the rehabilitation of mining sites. The winners of the challenge are 2 associated British startups, Mozaic Earth and Gentian, specialists in Al image analysis. They will receive funding to develop and test their technology on Eramet sites.



### **45%**

of the mining sites have a biodiversity action plan aligned with the IRMA standard

### 100%

of the sites had identified and measured their water extractions

# Producing and transforming metals by combining performance and responsibility

### OUR SUPPLIERS

Our suppliers are companies in the following business sectors:

Industrial equipment (mining, railway, hydraulic and handling equipment, etc.)

Transportation (maritime, road)

Energy (coal, water, electricity, etc.)

Industrial supplies (handling accessories, chemicals, refractories, insulation, etc.)

#### Services and professional activities (real estate.

IT, general services, logistics, intellectual services, industrial subcontracting)

### **Exploration and preparation**

Searching for future deposits while caring for the environment and local communities, our Exploration unit aims to uncover sustainable long-term growth opportunities to contribute to the development of our activities.

Subsequently, we prepare for the establishment of new mines through feasibility studies to validate the environmental, social and economic viability of each project.



### Extraction

2

Thanks to the know-how of our teams of geologists and the contribution of new technologies, such as artificial intelligence, we extract the ores as precisely as possible to reduce the environmental impact. Furthermore, the combined use of connected devices, drones and the array of available data helps us to optimise our processes for handling, storing and processing mineral resources.



### Transport

To supply our customers or our own processing plants, we oversee infrastructure and logistics solutions for the transport of our products. Upon arrival at the port, our mining products are transferred to ore carriers to ultimately supply our customers.



#### **Recovery and transformation**

Following extraction, the raw material undergoes treatment by appropriate processes, including mineral processing, pyrometallurgy and hydrometallurgy. Throughout this industrial process, we collect samples to ensure that the products we deliver meet high quality standards.

### We believe that responsible mining is an ecosystem that must:

- Integrate into an existing geographical, cultural, environmental and economic landscape
- Contribute positively to host country communities
- Generate lasting economic development that is independent of the mining activity



### OUR CUSTOMERS

Our customers are industrial companies from the following business sectors:

- Construction
- Automotive
- Chemicals
- Ceramics industry
- Pigments industry

### Marketing

Our products are sold by Eramet's central sales teams in Paris. They are supported by our Eramet International sales network, located as close as possible to our customers and markets (offices in China, India, Taiwan, Japan, South Korea and Brazil).



A leading and long-standing player in manganese, Eramet is present throughout the value chain: extraction, transport and processing of ore. Used for the manufacture of alloys, manganese is widely used in infrastructure, transport and construction.

### Extract

Comilog, a subsidiary of Eramet, extracts manganese at the Moanda mine in Gabon. Most of the production is sold, while the remainder is sent to the Moanda Industrial Complex for enrichment. This state-of-the-art facility is being transformed to reduce its atmospheric emissions by a factor of ten.

### Transport

Setrag, a subsidiary of Comilog, manages the 600 km Trans-Gabonese network, the only rail infrastructure in the country. It transports passengers and goods, including Comilog's ore and metallurgical products. A major multi-year track modernisation programme is underway.

### Transform

The manganese ore is transformed into allovs in 4 countries and on 3 continents: in Norway, the United States, France and Gabon. The pyrometallurgy plants produce ferromanganese and silicomanganese for steel production.

### **T**st

producer of highgrade manganese ore and manganese alloys in the world

### 5.5 Mt

of manganese ore sold in 2024

### 6 pyrometallurgy plants worldwide

632 Kt of manganese allovs sold in 2024



### Producing energy with furnace gases

In Norway, at its manganese alloys plant in Sauda, Eramet has an installation consisting of 7 engines that reuse gas from the furnaces to produce electrical and thermal energy. This project entered the commissioning phase at the end of 2024 for industrial commissioning in 2025.



Present in the nickel industry in New Caledonia and Indonesia, Eramet is a market leader. Nickel, used mainly in the manufacture of stainless steel, is also a key metal for the energy transition.

#### Indonesia

Eramet holds a minority stake in PT Weda Bay Nickel, which operates the largest nickel deposit in the world, located on Halmahera Island in northeastern Indonesia. The ore production feeds several local plants. The Group is also continuing its exploration activities to identify new growth opportunities as regards energy transition metals, in collaboration with the Indonesian authorities.

# NIC<mark>KEL</mark>

### INDONESIA

The largest nickel deposit in the world in volume

### 30.3 Mwmt

of nickel ore sold at Weda Bay in 2024

### NEW CALEDONIA

4
mining centres
plant at Doniambo

### **New Caledonia**

Historically present in New Caledonia with SLN, which operates several mining centres as well as the Doniambo ferronickel plant in Nouméa, Eramet signed an agreement with the French State in April 2024 to finance SLN's losses on a sustainable basis. Today, Eramet continues to provide operational support to the company.

### **Circular economy: SLN at the forefront**

The slag from the smelting of nickel at the Doniambo plant in New Caledonia replaces some of the natural sand used to manufacture, in particular, concrete. Since 2024, this slag has been approved by the New Caledonia Construction Reference Framework, a guarantee of quality and traceability.





# MINERAL SANDS



In Senegal, Eramet operates a mineral sands mine rich in titaniferous ores and zircon, used to manufacture pigments, paints and ceramics.

### Extraction

Eramet Grande Côte's mineral sands mine is located along a stretch of the Senegalese coast. The concession begins approximately 50 kilometres north of Dakar and extends northwards for more than 100 kilometres. The mining dredge moves about 30 metres per day.

### Concentration

The sand is suctioned and transported to the Wet Concentration Plant (WCP) via a pipeline connected to the aft section of the dredger. The mineral sands are separated from the water and ordinary sands. The latter are returned to the dunes in order to remodel them as close as possible to their original state, while the water is reinjected into the basin to ensure a constant level.

The mineral sands concentrate is then routed to the Mineral Separation Plant (MSP), where the heavy minerals are separated. This plant yields ilmenite with titanium dioxide concentrations of 54%, 56% and 58%, along with rutile, leucoxene, and a small quantity of zircon.

### SENEGAL

Ilmenite - Rutile -Leucoxene - Zircon

**4th** producer of zircon in the world

**883 Kt** of mineral sands produced in 2024

# Restitution of a revegetated mining site

In 2022, 85 hectares of revegetated land were officially returned by Eramet Grande Côte to the Senegalese Department of Water and Forests, a first for the country.

By the end of 2025, approximately 950 hectares will have been returned, gradually and continuously, in a condition equal to or even better than the initial state of the land.



In the province of Salta in Argentina, Eramet operates one of the largest lithium deposits in the world, at an altitude of 3,800 metres, in the heart of the Centenario-Ratones salar (salt flat). With this asset, the Group will contribute to the development of electric mobility.

Eramet has pioneered the world's most advanced technology for producing battery-grade lithium carbonate (LCE), using direct selective lithium extraction from brines. The Centenario plant is the first to use this technology, developed and patented by Eramet on an industrial scale. The process makes it possible to obtain highperformance lithium carbonate, suitable for the manufacture of electric vehicles.

In 2024. Eramet acquired the shares of its partner Tsingshan to regain full ownership of this strategic asset. Inaugurated in July 2024 after less than three years of construction, the plant produced its first metric ton of lithium carbonate at the end of 2024. 2025 will be the year of ramp-up.

### 15 Mt

+40 years



### **Capturing lithium in geothermal** sources in Alsace

In Alsace, Eramet is a stakeholder in the Ageli project alongside Electricité de Strasbourg to capture lithium from a geothermal source by adapting its process developed in Argentina. A pilot project is currently underway to demonstrate the effectiveness of the process and ensure the stability of the active extraction material over time.





### ERAMET

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