

CORPORATE PROFILE



Message from the Management

JX Advanced Metals is a nonferrous metals enterprise that conducts global operations related to nonferrous metals such as copper and minor metals, covering the full range of businesses from resource development, smelting and refining, to manufacture and sales of advanced materials, and recycling of metals from end-of-life equipment.

In recent years, the societal and business climate within which we operate has faced immense change. This is the result of such developments as progress in digital transformation, increasing momentum toward the decarbonization of society, deepening concerns over resource shortage and depletion, and increasing demands on companies in terms of their responsibilities to society.

The high value-added advanced materials we handle are essential for applications such as smart devices and telecommunications infrastructure. Thanks to our constant efforts to improve their quality and functionality, build a dynamic supply system, and develop new offerings, these materials serve to underpin progress in today's data-driven society. Furthermore, copper and other nonferrous metal resources are indispensable to achieving societal sustainability. We consider it our mission to continue supplying these resources stably into the future while also addressing sustainability-related imperatives such as decarbonization and resource circulation, and are resolutely pursuing measures to this end.

Since our business commencement at the Hitachi Mine, we have maintained a purposeful collaboration ethos to encourage open and inclusive dialogue and tackle difficulties together. With changes in society expected to accelerate further, we will continue boldly taking on the challenges of change and fulfilling our societal responsibilities to stakeholders as we seek to achieve sustained growth as an enterprise.

I hope we can rely on your continued warm support and encouragement as we pursue our goals.

President & Representative Director
Chief Executive Officer
JX Advanced Metals Corporation

Hayashi Yoichi

JX Advanced Metals Group's Philosophy

We have articulated the JX Advanced Metals Group's Philosophy as Our Purpose and Our Way.

Our Purpose represents our social role and reason for existence. We have expressed it as a forward-looking commitment to creating added value to society—something that has remained constant throughout our 100-plus-year history and will continue for the next 100 years. Our Way represents the values that guide our actions, expressed based on words shaped by our long history.

Our Purpose

Creating Value for a Brighter Future

Powered by technology, passion, and innovation.

Our Way

● **Courageous Spirit**

Our pursuit of excellence challenges convention and welcomes innovative change.

● **Purposeful Collaboration**

Our commitment to creating value drives us to address challenges through open and inclusive dialogue.

● **Mutual Respect**

The core of our culture is building strong relationships with each other as valued members of a team.

● **Flourishing Together**

We embrace sustainable business practices to harmonize with society for mutual prosperity.

Business Activities

The JX Advanced Metals Group is engaged in a comprehensive range of nonferrous metal businesses, centered on copper and minor metals, spanning from mineral resources to smelting and recycling, and the manufacture and development of advanced materials.



Strategic Business Portfolio for Society in 2040

Social trends surrounding the JX Advanced Metals Group’s business environment are undergoing major changes, including the advance of the data society and the growing global momentum toward achieving of the SDGs. Against this backdrop, the Group has formulated its Long-Term Vision 2040, aiming to transform JX Advanced Metals Group into a technology-based company. We seek to achieve sustainable growth by positioning each business as either a Focus Business, at the core of our growth strategy, or a Base Business, supporting our organizational foundation.

Focus Businesses ▶ P5-8	Semiconductor materials segment	 Thin Film Materials Business Employing advanced technology cultivated over years of doing business, we are a supplier of a wide variety of sputtering targets for Semiconductor, compound semiconductor materials, high-purity metals, and more. These materials, provided on a global scale, find use cases in end products such as leading-edge IT equipment, medical instruments, and advanced electronics devices found in electric vehicles.
		 Tantalum and Niobium Business Primarily driven by TANIOBIS GmbH, one of the world’s leading manufacturers of tantalum and niobium, we contribute to evolution of the IoT/AI society through stable provision of products such as metal powders used in capacitors and semiconductor materials, high-purity oxides for SAW devices and optical lenses, chlorides and compounds, and superalloy additives.
	ICT materials segment	 Functional Materials Business Employing advanced metal fabrication technology cultivated over years of doing business, the Company has become a global supplier of highly-advanced products such as rolled copper foils for flexible circuit boards, as well as precision copper alloys including titanium copper, Corson alloy, and phosphor bronze - all used in connectors and other parts.
Base Businesses ▶ P9-10		 Mineral Resources Business We hold interests in several mines in Chile and are striving for stable operation and further improvement of productivity. We are also actively involved in the exploration and development of minor metal mines since demand for those metals is expected to increase in the future in the field of advanced materials.
	Metals & Recycling segment	 Metal & Recycling Business We are able to efficiently use our smelting processes to take copper concentrate and recycled raw materials and supply high-quality metal products such as copper and precious metals. These products are then used as materials for our advanced materials, as well as provided in a stable fashion in Japan and parts of Asia. In recent years, we have been contributing to the establishment of a recycling-oriented society especially through increasing the amount of recycled raw materials processed.

Focus Businesses

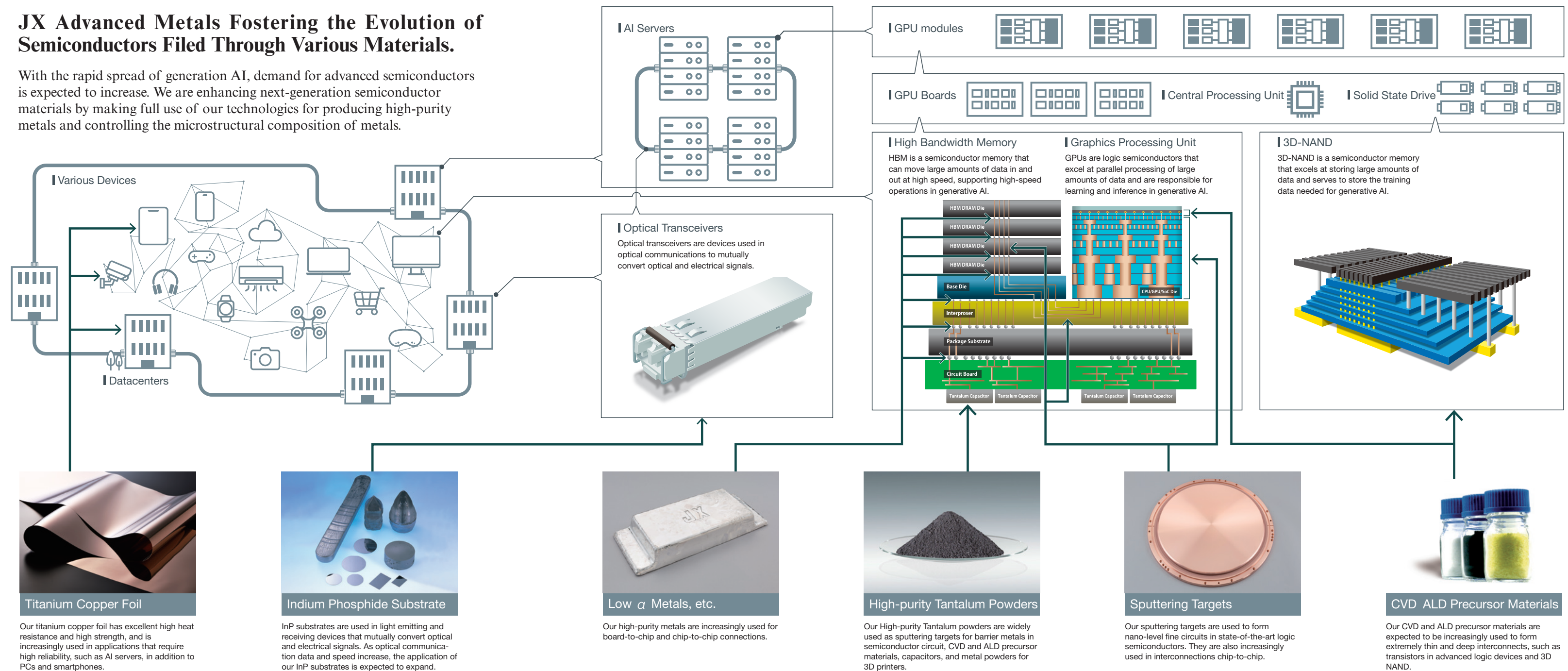
Our advanced materials with high functionality, high-added-value, and which have the number one global market share, support the advancement of the data society.

The use of digital data in various industries have led to an ever-increasing need for advanced materials. The JX Advanced Metals Group contributes to the advancement of the data society by supplying customers around the world with high-quality advanced materials with its number one global market share, supported by advanced technological capabilities cultivated over many years of doing business in areas such as high purification, alloying, and rolling treatment. We will also consistently take on the challenge of innovation through further development and evolution of our accumulated technologies, and contribute to the advancement and innovation of society.



JX Advanced Metals Fostering the Evolution of Semiconductors Filed Through Various Materials.

With the rapid spread of generation AI, demand for advanced semiconductors is expected to increase. We are enhancing next-generation semiconductor materials by making full use of our technologies for producing high-purity metals and controlling the microstructural composition of metals.



Major Advanced Materials Offered by the JX Advanced Metals Group

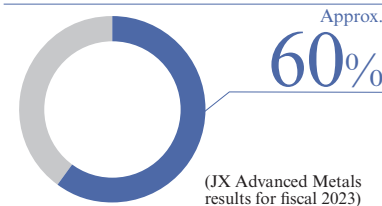
Sputtering Target
for Semiconductor

Thin Film Materials Business

Timely provision of high-quality targets contributing to improved semiconductor reliability

These materials are harnessed to form fine wiring patterns on semiconductor wafers. We offer a wide variety of sputtering targets, including not only copper but tantalum, titanium, tungsten and cobalt. Our production processes offer a stable supply of high-quality products thanks to advanced technologies cultivated over years of business activities, including high purity capabilities. We also have four processing plants around the world, and have built a system that enables us to provide the products our customers demand in a timely manner.

Global Market Share

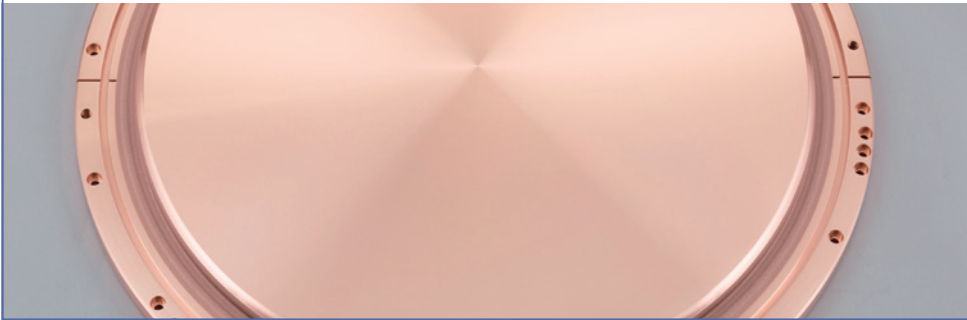


Primary Application Example

Semiconductors (memory, logic, etc.)

Final Application Examples

Smartphones, PCs, home appliances, communication infrastructure, data centers, automobiles



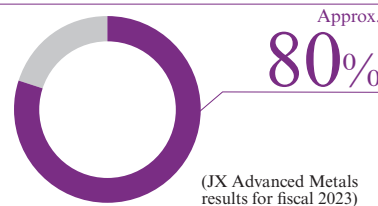
Treated Rolled Copper Foil
for FPC

Functional Materials Business

Contributing to the miniaturization and longer lifespans of smartphones with excellent bending performance and durability

These are used in flexible printed circuit boards (FPCs), bendable wiring materials connecting internal smartphone components. These materials contribute to the miniaturization and longer lifespans of smartphones. The JX Advanced Metals Group has integrated processes spanning from raw material copper ingot casting to rolling, fabrication and surface treatment, and boasts a high market share with high quality recognized around the world.

Global Market Share

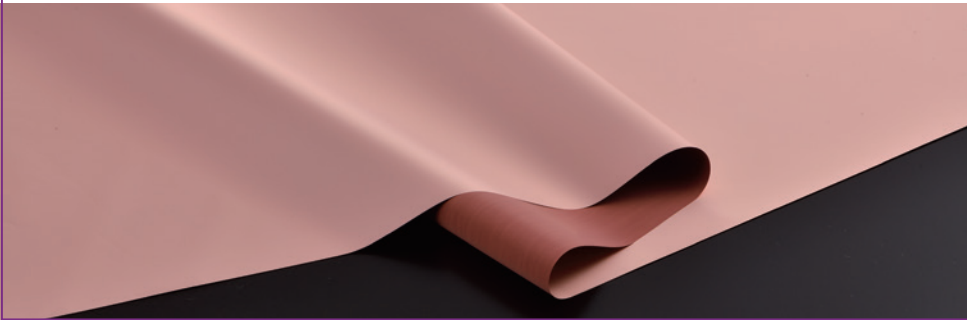


Primary Application Example

Flexible printed circuit boards (FPCs)

Final Application Examples

Smartphones, PCs, home appliances, automobiles



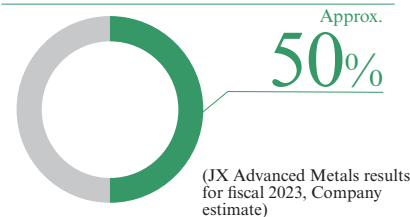
High-Purity
Tantalum Powder

Tantalum and Niobium Business

Stable supply of high-quality tantalum powder essential for semiconductor wiring and capacitors

Our High-purity Tantalum powders are widely used as sputtering targets for barrier metals in semiconductor wiring, CVD and ALD precursor materials, capacitors, and metal powders for 3D printers.

Global Market Share



Primary Application Example

Sputtering targets, Capacitors

Final Application Examples

Smartphones, PCs, home appliances, communication infrastructure, data centers, automobiles



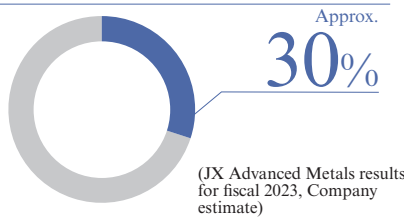
Indium Phosphide Compound
Semiconductor Substrates

Thin Film Materials Business

Various compound semiconductor substrates backed by advanced technology

Compound semiconductors are semiconductors made from multiple elements exhibiting unique properties not found in silicon semiconductors, including excellent high-speed signal processing and responsiveness to light. JX Advanced Metals provides various compound semiconductor substrates, including indium phosphide (InP) substrates, which are indispensable for optical communication modules (light-receiving and emitting devices) that support high-speed and highly reliable communications. These substrates are backed by advanced technologies that include raw material purification and wafer processing technologies, and are expected to be adopted in new fields such as anti-collision sensors for automobiles in the future.

Global Market Share



Primary Application Example

Optical communication devices, high-frequency devices

Final Application Examples

Communication infrastructure, data centers, automobiles



Base Businesses



Our base businesses are responsible for the stable supply of copper, minor metals and other nonferrous metals supporting the most essential but often invisible elements of our daily lives.

Demand for nonferrous metal resources is expected to increase with a growing world population, economic growth in developing countries and rapidly growing interest in decarbonization. However, with deepening regional disparities and mineral resource shortages/depletion, competition to acquire mineral resources with good quality has intensified. Recognizing that it is our social mission to provide a stable supply of nonferrous metals essential for the development of society, including copper and minor metals, the JX Advanced Metals Group strives to strengthen the competitiveness of Mineral Resources Business and Metal & Recycling Business, while promoting initiatives to build a recycling-oriented society.



Mineral Resources Business

With copper concentrate exhibiting lower copper grade and increasing impurities worldwide, the value of clean, high-grade copper concentrates is on the rise. The copper concentrate produced at the Caserones Copper Mine, in which we hold interests, is clean with low impurities and provides a key raw material for the Saganoseki Smelter & Refinery operated by JX Advanced Metals Smelting Co., Ltd. To ensure stable raw material supplies we also hold interests in other high-quality overseas mines in addition to the Caserones Copper Mine, such as the Los Pelambres Copper Mine and the Escondida Copper Mine. We are also exploring and developing minor metal mines in order to secure a supply chain of raw materials for advanced materials. In 2022, we decided to participate in tantalum materials production business at Mibra Mine in Brazil.



Caserones Copper Mine



Los Pelambres Copper Mine



Escondida Copper Mine



Mibra Mine

Metals & Recycling Business

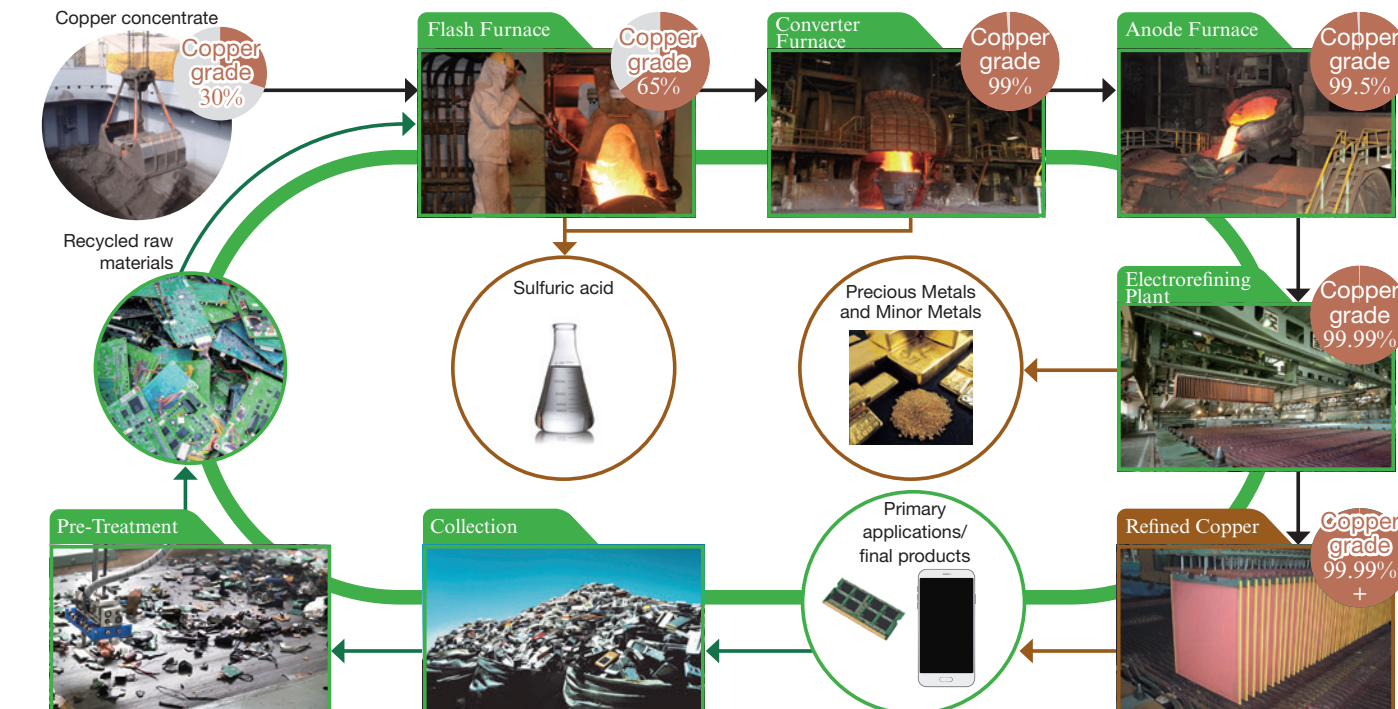
The JX Advanced Metals Group is promoting integrated management of metal smelting and recycling. We use copper concentrates, as well as recycled raw materials like used home appliances and electronic devices, in our high-efficiency smelting processes to produce refined copper of 99.99% or higher purity. This copper smelting also produces by-products, such as precious metals and sulfuric acid. These products are used as materials for our advanced materials, as well as supplied in a stable fashion to Japan, regions throughout Asia and other parts of the world.

Green Hybrid Smelting at the Saganoseki Smelter & Refinery of JX Metals Smelting Co., Ltd. employs a method with limited environmental footprint, using reaction heat from sulfur in the copper concentrates for melting, and using the surplus heat to process recycled raw materials. We are developing technologies and establishing systems to increase the collection and processing of recycled raw materials, with the aim of raising the proportion of these raw materials to 50% by 2040.



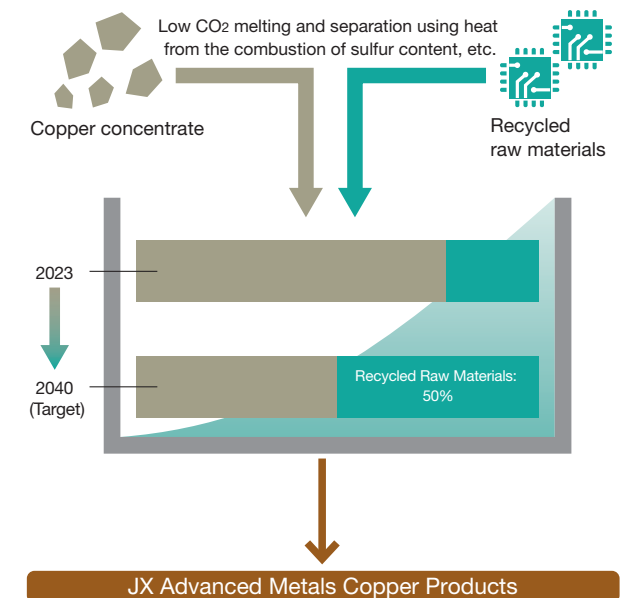
Saganoseki Smelter & Refinery

Copper Smelting and Recycling Process



Green Hybrid Smelting

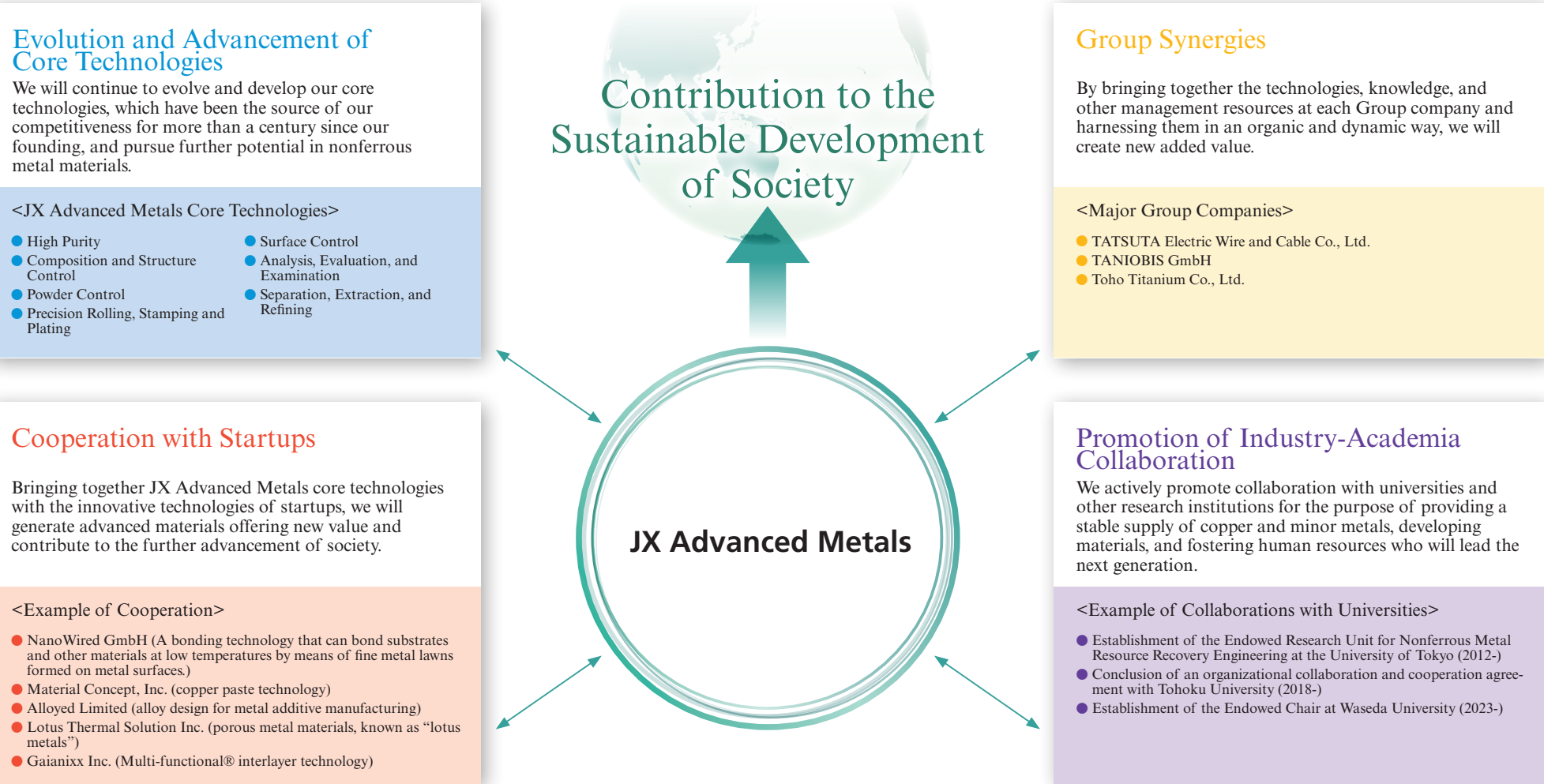
Green Hybrid Smelting
Combines the Use of Copper Concentrates and Scrap





Research and Development

The JX Advanced Metals Group is actively working to advance research and development with the aim of becoming a technology-based company capable of harnessing nonferrous metal-related technology and knowledge. With this technology and knowledge, cultivated over many years of doing business, we will rapidly provide society with products and technologies driving evolution.





Sustainability

Today, sustainability perspectives are indispensable for companies to achieve long-term growth. As a nonferrous metals enterprise that conducts global operations related to nonferrous metals such as copper and minor metals, the JX Advanced Metals Group is actively promoting sustainability management.

(Photo) Oshima cherry blossoms at the Hitachi Mine, where greenery was restored to a mountain devastated by smoke pollution

The JX Advanced Metals Group's Materialities

The JX Advanced Metals Group has identified six materialities in order to realize our 2040 Long-Term Vision, and we are taking actions to address these. We have also set key performance indicators (KPIs) for each materiality. The Sustainability Committee is in charge of administrating this system, measuring and assessing the levels of achievement for each KPIs.

Contribute to Environmental Conservation

Provide Advanced Materials that Support Lives and Lifestyles

Create Attractive Workplaces

Respect Human Rights

Coexistence and Co-Prosperity with Local Communities

Strengthen Governance

Priority Items to Address

Addressing Climate Change

As the world moves more rapidly toward decarbonization, the JX Advanced Metals Group is stepping up its efforts to decarbonize, establishing a key goal of 50% in total in-house CO₂ emissions reductions by fiscal 2030 (vs. fiscal 2018) and net zero CO₂ emissions by fiscal 2050.

Contributing to a Recycling-Oriented Society

At the JX Advanced Metals Group, we believe that our mission is to minimize resource final disposal through an ongoing cycle while maintaining the maximum value of these resources. In addition to working on resource recycling by harnessing our advanced technological capabilities, we will contribute to the creation of a recycling-oriented society by collaborating with external companies and research institutions.

Complying with International Norms and Initiatives

The JX Advanced Metals Group is committed to contributing to the realization of a sustainable society through active participation in various industry associations and compliance with social requirements such as international norms and initiatives. We will continue to fulfill our social responsibilities as a member of the international community doing business on a global scale.

Sustainability Website

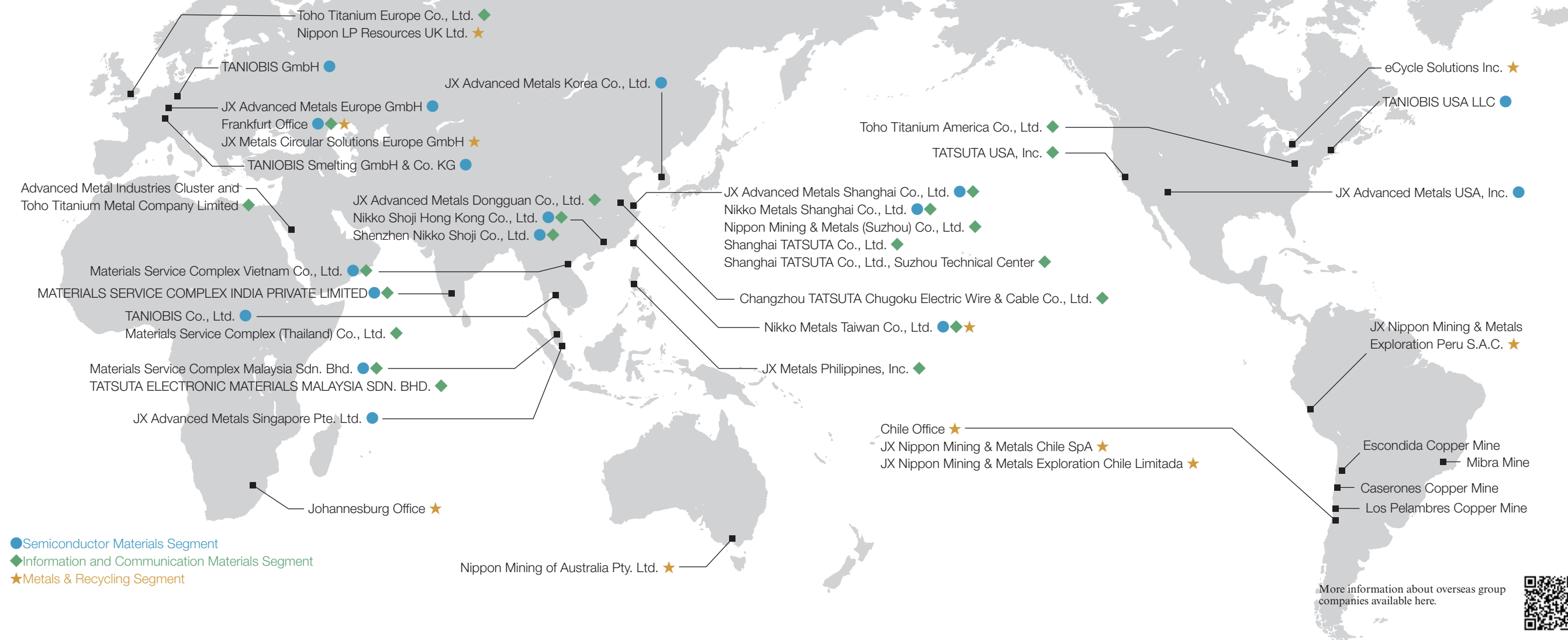
► <https://www.jx-nmm.com/english/sustainability/>



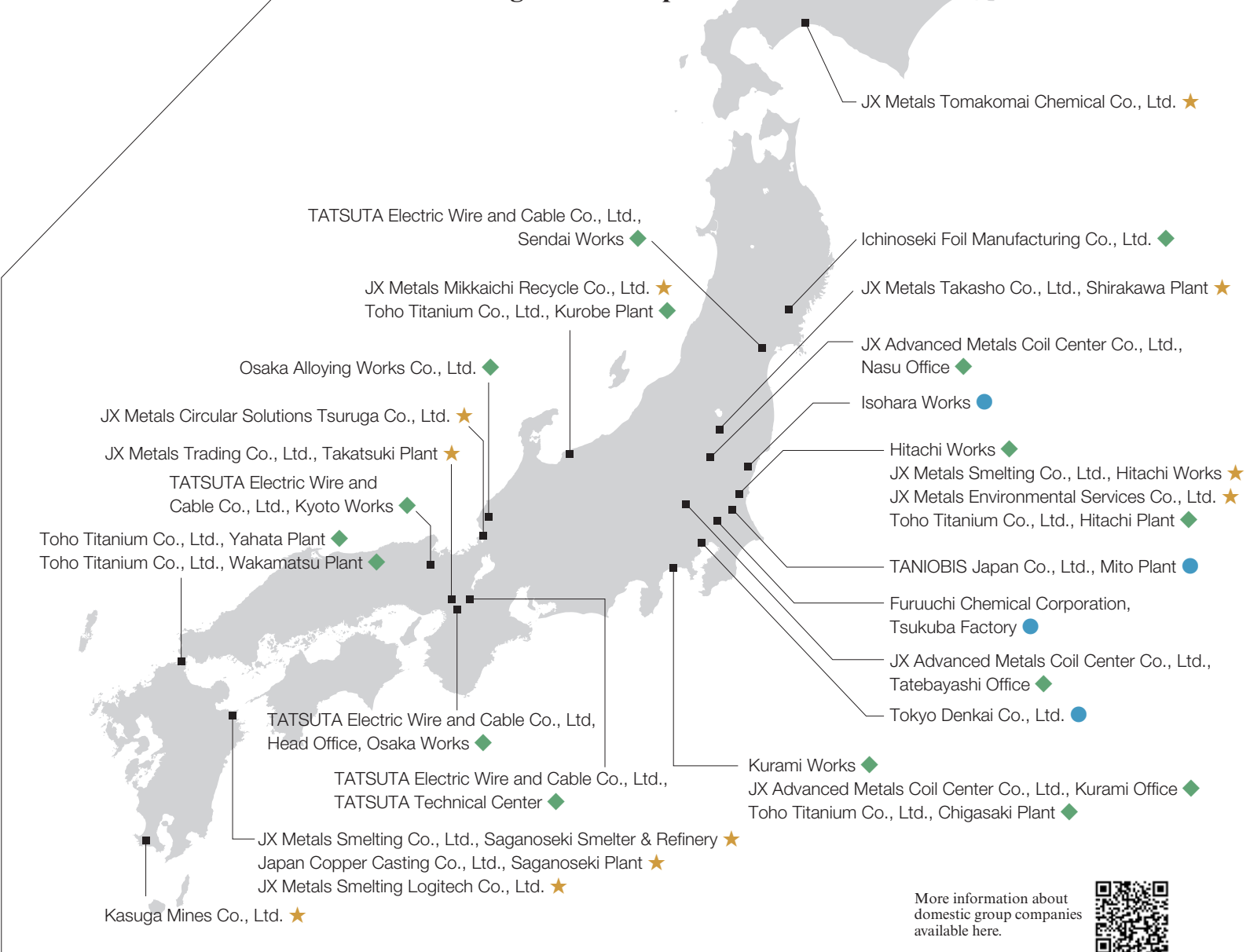
Network

The JX Advanced Metals Group operates sites around the world.
This global network enables us to meet customer needs through close information sharing and collaboration.

Overseas Business Locations



Manufacturing Bases in Japan



Corporate History



1905 Our Founding Year
Fusanosuke Kuhara opens the Hitachi Mine (Ibaraki Prefecture)



1916
Opened the Saganoseki Smelter & Refinery (Oita Prefecture), one of the largest smelters in Japan

1949
Established Karasuyama Laboratory (Tokyo), a predecessor of our R&D organizations



1964
Kurami Works (Kanagawa Prefecture) opened with state-of-the-art rolling mills



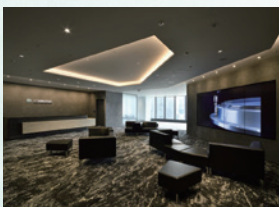
1985
Isohara Works (Ibaraki Prefecture) opened, becoming a new main manufacturing center in Japan

2003
Nikko Metal Manufacturing established (as a spin-off of Nikko Metals' metal fabrication business)

2006
New Nikko Metals established (through the three-way merger of Nikko Metals, Nikko Materials, and Nikko Metal Manufacturing)



2014
Launched production at Caserones Copper Mine (Chile)



2020
Relocated headquarters to Toranomon, Minato-ku



2025
Listed on the Tokyo Stock Exchange Prime Market

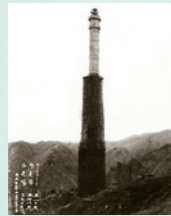


Corporate Profile

Company Name	JX Advanced Metals Corporation
Paid-in Capital	75.0 billion yen
Head Office	The Okura Prestige Tower 10-4, Toranomon 2-chome, Minato-ku, Tokyo 105-8417, Japan TEL: 03-6433-6000 (Switchboard)
Business Lines	Thin Film Materials Business Tantalum and Niobium Business Functional Materials Business Mineral Resources Business Metal & Recycling Business
Employees	Consolidated: 10,413 Non-consolidated: 3,267 (as of March 31, 2025)

1912
Kuhara Mining established

1914
Construction of the world's tallest stack, at 155.7 meters high, at the Hitachi Mine to deal with pollution in the area



1928
Kuhara Mining renamed to Nippon Sangyo

1929
Nippon Mining established (spun off from the mining and smelting division of Nippon Sangyo)



1968
Chile Office established

1970
First Nikko process flash smelting furnace completed at Saganoseki

1973
Second Nikko process flash smelting furnace completed at Saganoseki

1978
New recycling furnace built at Hitachi Smelter & Refinery

1986
Nippon Mining Museum opened

1992
Start of operations at Nikko Metals (as a spin-off of Nippon Mining's metals and metal fabrication businesses, with Nippon Mining renamed Japan Energy in 1993 after merging with Kyodo Oil Co., Ltd.)

1998
Nikko Metals listed on the First Section of the Tokyo Stock Exchange

1999
Nikko Materials established (as a spin-off of Japan Energy's electronic materials business)

2002
Established Nippon Mining Holdings, Inc. (Merger of Japan Energy and Nikko Metals)



2010
JX Holdings established (through the merger of Nippon Mining Holdings and Nippon Oil Corporation)



2016
Changed Japanese name of JX Nippon Mining & Metals

2017
JXTG Holdings established (with the merger of JX Holdings and Tonen General Sekiyu, renamed ENEOS Holdings in 2020)

2017
Frankfurt Office established

2018
Acquired shares in H.C. Starck Tantalum and Niobium GmbH (now TANIOBIS GmbH)



JX Advanced Metals Corporation Corporate Profile

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