News Release



September 5, 2025

JX Advanced Metals Corporation

FY2024 Resource Circulation Achievements of the JX Advanced Metals Group

In fiscal year 2024, the recycling ratio of electrolytic copper within the JX Advanced Metals Group reached 24.6% (*1), equivalent to approximately 100,000 metric tons of recycled copper.

Copper is an essential material not only for everyday items such as coins, home appliances, smartphones, trains, and EVs, but also for large-scale infrastructure that supports modern society, including power plants and data centers. Japan relies heavily on overseas sources for copper, and globally, concerns have been raised about future shortages of copper resources.

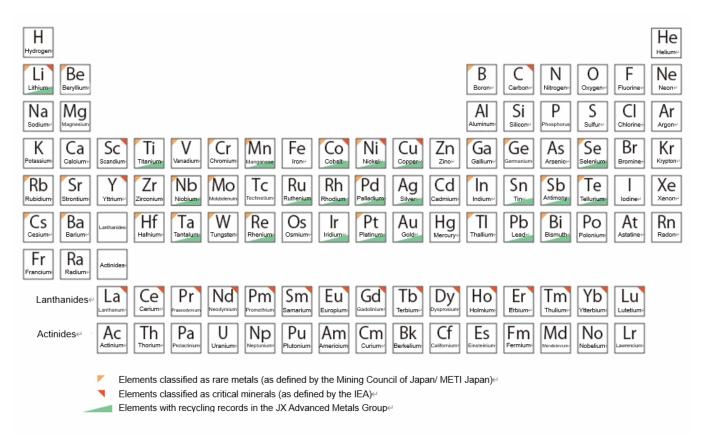
As one of Japan's leading copper smelters, our group has long contributed to the foundation of the information society and the AI era by producing high-quality copper. To continue fulfilling this role and contribute sustainably to societal development, we must go beyond conventional recycling efforts and build more advanced and scalable systems for resource regeneration and circulation that are superior both in quality and quantity.

In 2023, we launched an unprecedented initiative in the copper smelting industry: a framework for direct dialogue with end-users regarding copper resource circulation, regardless of whether or not a transactional relationship exists between them and our group (*2). In 2024, we proposed a co-creation model for resource circulation with end-users (*3). Over the past year, we recycled approximately 100,000 metric tons of copper, achieving a 24.6% recycling ratio. We aim to further increase this ratio to 50% by 2040 (*4).

In the information and AI-driven society, various metals beyond copper are essential. For example, electronic devices such as PCs and smartphones contain small amounts of precious metals like gold and silver. Our group has established a global network to collect discarded electronic substrates rich in valuable metals and uses advanced recycling technologies to extract and regenerate these resources.

In addition to copper, gold, and silver, we are also focused on recovering a wide range of rare metals, including platinum, palladium, tantalum, antimony, bismuth, tellurium, and selenium. The rare metals recovered by our group (*5), based on the definition by Japan's Mining Council (*6), exceed 20 types, as shown in the figure below. These metals are present in trace amounts compared to gold and silver, making it difficult to pinpoint their exact origin. However, we recover them from the residue left after extracting copper, gold, and silver, using domestic plants to ensure effective resource utilization. One of the key facilities supporting this effort is our Hitachiarea recovery plant, which has been in operation for 17 years.

As both a recycler and supplier of resource materials, and a manufacturer with advanced technologies and product lines essential for semiconductor production, JX Advanced Metals will continue to support the information and AI era and contribute to sustainable development.



List of elements recovered by our company in the periodic table

- (*1) Based on internal data (copper volume basis)
- (*2) August 3, 2022 News Release:

Sustainable Copper Vision: JX Metals Aims to Supply Sustainable Copper | FY2022 | JX Advanced Metals

- (*3) January 31, 2024 News Release:
- "New Proposal for the 100% Recycled Electrolytic Copper Supply Model ~ Resource recycling co-created with customers ~" https://www.jx-nmm.com/english/newsrelease/fy2023/20240131 04.html
- (*4) Company Overview Metals & Recycling Business

https://www.jx-nmm.com/english/company/industry/metal-recycling/

- (*5) Includes companies such as Toho Titanium and Taniobis
- (*6) Based on the definition by Japan's Mining Council