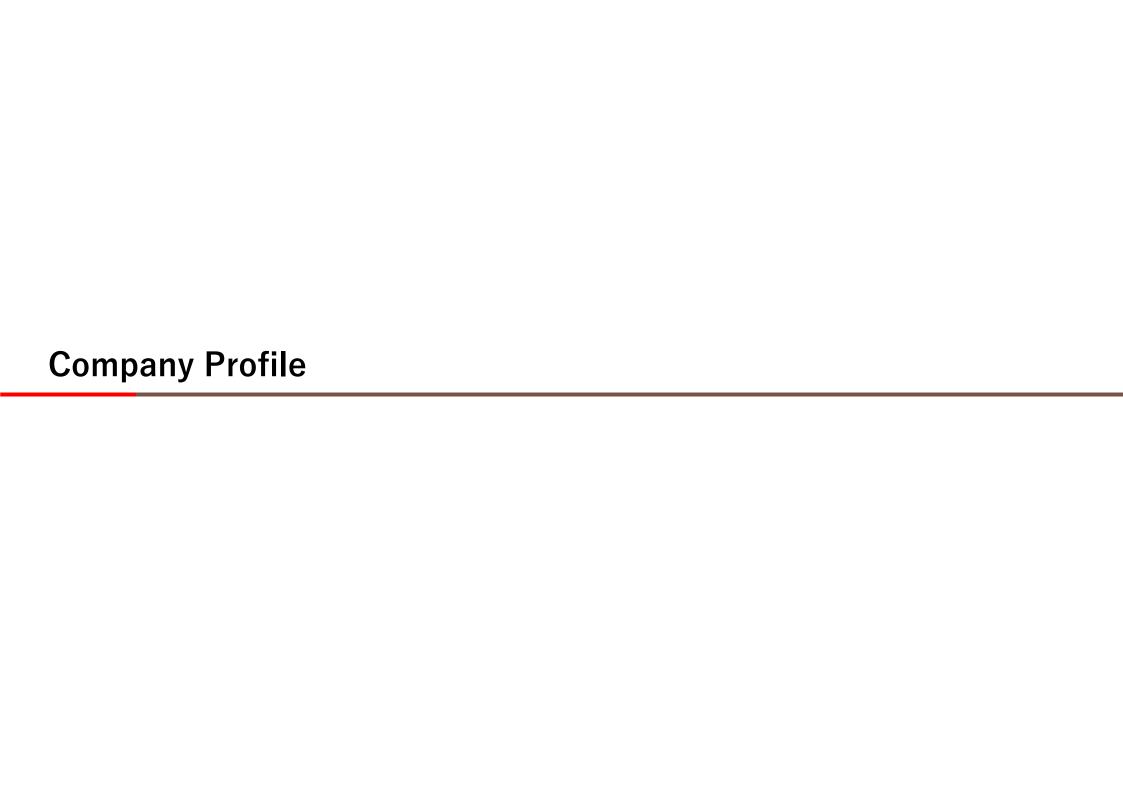
Mitsubishi Materials Investors' Guide 2024 August



Table of Contents

- 1. Company Profile
- 2. Value Creation in Mitsubishi Materials
- 3. Overview and Progress of the FY2031 Strategy
- 4. Specific Measures to Increase Corporate Value



Company Profile

Company Name: Mitsubishi Materials Corporation

Head Office:
 2-3, Marunouchi 3-chome, Chiyoda-ku,
 Tokyo 100-8117 Japan

Chief Executive Officer: Naoki Ono

Originally Founded: 1871

Business Overview:
 Developing a wide range of businesses, from base materials such as copper and other nonferrous metals, to metal processing, semiconductor-related and electronic components, and energy and environmental businesses.

Composition of Officers:

Directors: 11 (including 7 Outside Directors; 2 women)

Executive Officers: 8 (including 1 woman)

■ FYE March 2024 Results (April 1, 2023 - March 31, 2024)

Consolidated Net Sales: ¥1,540.6 billion

Consolidated Operating Profit: ¥23.2 billion

Consolidated Ordinary Profit: ¥54.1 billion

ROE: 4.8%

As of March 31, 2024

Paid-in Capital: ¥119.4 billion

Shares of Issued and Outstanding: 131.48 million

Consolidated Number of Employees: 18,323

(As of July 31, 2024)

Stock Price: ¥2,817 PBR: 0.56 times Dividend Yield: 3.5%

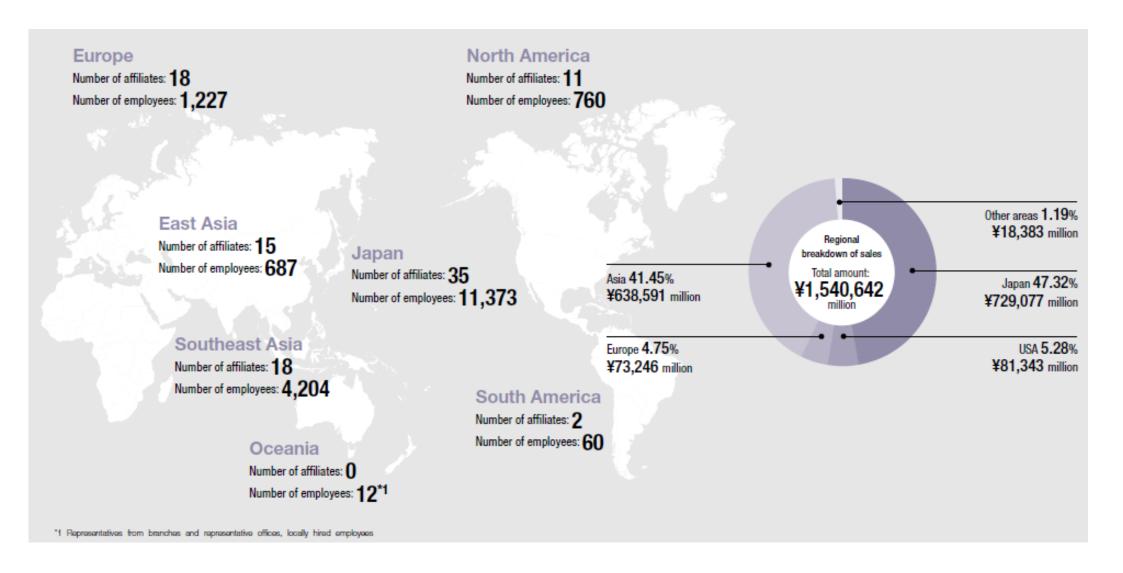
Market Capitalization Value PER: 8.2 times

: ¥370.4 billion

^{*}The denominator of PBR is the actual net assets per share as of March 31, 2024. The denominator of PER is the forecast for net income per share for the fiscal year ending March 2025. The numerator of the dividend yield is the forecast for the dividend per share for the fiscal year ending March 2025.

Status of Overseas Development

Global operations in 32 countries and regions



Sales Breakdown by Company and Business Segment

■ Resources business:

Investment in copper mines Securing procurement of copper concentrate

Sales Breakdown by Company and Business Segment

■ Copper & Copper Alloy business :

Manufacture and sales of processed copper products for the automotive and semiconductor markets



■ Smelting & Resource Recycling business:

Smelting of copper and by-products E-Scrap home appliance recycling



Production FYE Mar. 24 Result Cu ~410 kt Au ~26 t Ag ~235 t

Metals
Company

¥1,038 bn.
/ ¥31.0 bn. FYE M

FYE Mar. 2024
Net Sales
¥1,540.6 billion
/Ordinary profit
¥54.1 billion

Advanced Products Company

¥4,88.7 bn. / ¥1.8 bn.



■ Electronic Materials & Components business:

Manufacture and sales of electronic materials for the semiconductor and automotive markets





Renewable Energy business

¥4.6 bn. / ¥0.8 bn.

■ Geothermal power generation, hydroelectric power generation, solar power generation, etc.





Including net sales of ± 130.7 bn. and ordinary profit of ± 4.1 bn. as others and adjustments

Metalworking Solutions Company ¥140.0 bn. / ¥12.2 bn.

Carbide tools business:

Manufacture and sale of cemented carbide tools for metal processing of automobiles, aircraft, etc.





Overview of the Metals Business

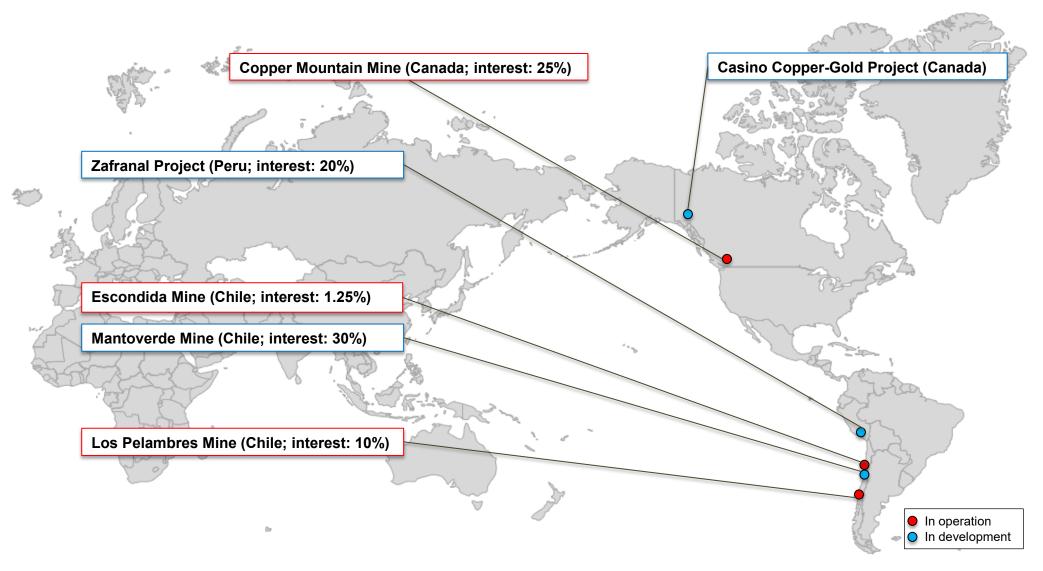


Business	Business Overview	Strengths	Ordinary Profit	Market Opportunities and Prospects
Resource Business	☐ Investment in overseas copper mines for stable procurement of clean copper concentrates	 Years of experience in operating mines Long-lasting friendly relations with giant resource corporations 	FYE March 2024 Result ¥20.1 billion FYE March 2025 Forecast ¥17.9 billion FYE March 2026 Plan ¥11.4 billion	<market opportunities=""> Review strategies according to the willingness of giant resource corporations to develop copper mines and decarbonization <market prospects=""> Increase in taxes, more stringent regulations, and opposition to development due to resource nationalism and raised environmental awareness New ore deposits that are deeper, located in isolated districts, deteriorated in quality, and contain more impurities</market></market>
Smelting & Resource Recycling Business	 □ Smelting of non-ferrous metals from copper concentrates, scrap metal and waste, etc. □ Sales of electrolytic copper, gold, silver, PGM(*), tin, lead and byproducts (sulfuric acid/gypsum, etc.) (*) Platinum-group metals □ Home appliance recycling, automobile recycling 	 Utilizing Mitsubishi's continuous copper smelting process boasting high efficiency and low environmental impact World's No. 1 E-Scrap processing capacity Advanced recycling technology and business foundation Consistent manufacturing system from raw materials to products Diverse production bases (copper, lead, tin, precious metals, PGM) Recycling technology Technology to recover rare earth metals, etc. 	FYE March 2024 Result ¥11.6 billion FYE March 2025 Forecast ¥19.0 billion FYE March 2026 Plan ¥27.0 billion	<market opportunities=""> Enhance recovery and commercialization of trace constituents in production processes Transition to a recycling-oriented and decarbonized society Expansion of E-Scrap market in line with growing environmental awareness Copper consumption that is on the rise in the medium to long term Depletion of mineral resources: Increase in demand for recycled resources <market prospects=""> Intensifying competition for the collection of E-Scrap Strong sulfuric acid market, weak copper slag market Trends and emergence of competitors Reorganization of manufacturers Municipal trends</market></market>

Mines in Which We Have Interests



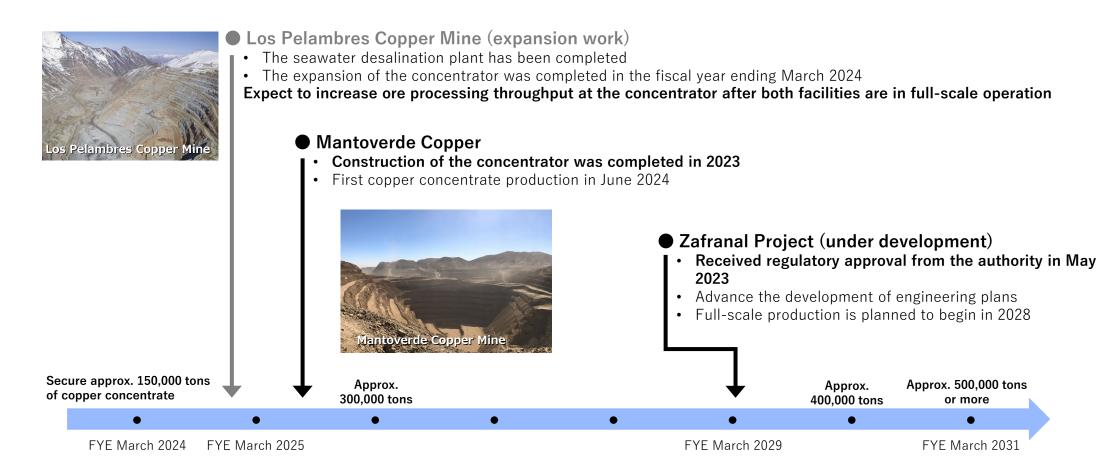
- To expand our recycling business, it is crucial to invest in mines to secure copper concentrates with fewer impurities, which will lead to stable operations of copper smelters, the basic infrastructure of the recycling business, and we are making steady progress in this area
- Our main targets are medium-scale mining projects with low impurity content and a certain level of profitability



Metals Company

Status of Mine Development

- We will continue to acquire interests through continued investment in mines and promote efforts to secure stable copper concentrates as planned
- We have initiated a new mine development project, the Casino Copper-Gold Project



New mine development: Casino Copper-Gold Project

• Verify the feasibility and economics of the Casino Project through technical committee meetings with Western Copper and Gold Corporation



Advanced Products Company

Overview of the Copper & Copper Alloy Business



Key markets	Uses	Main product groups		Strengths	Ordinary profit	Market Outlook
	Terminals and	In-vehicle terminals Copper strips for busbars	35.4	High-performance copper alloy casting/processing technologies		> Demand for
Automobiles Transport equipment	connectors	Plating		Development capabilities		automobiles and semiconductors is expected to continue to grow over the medium to long term due to the spread of next-generation automobiles and high-capacity
	Automotive parts	Lead-free brass		Development capabilities	FYE March 2024	
Semiconductors	Semi conductors	Lead frames	RPERO	High-performance copper alloy casting/processing technologies	Result ¥-0.5 billion FYE March 2025 Forecast ¥7.3 billion	communications. In response to past disruptions in their supply chains, major customers are
Electronics	Electronics	Copper strips for heat sink		High-quality oxygen- free copper casting/processing technologies	FYE March 2026 Plan ¥12.4 billion	increasingly aware of the importance of the concept of local production and local consumption.
Infrastructure Industrial equipment	Equipment parts	Copper rods Busbars		Oxygen-free copper/copper alloy casting and processing technologies		Furthermore, as a measure to deal with rising transportation and energy prices, we will work to optimize our value chain.
Medical equipment	MRI parts	Superconducting wires		Manufacturing/processing technologies		

Advanced Products Company

Overview of the Electronic Materials & Components Business



Key markets	Uses	Main product groups		Strengths	Ordinary profit	Market Outlook		
	Semiconductor element bonding materials	Low alpha solders		Characteristic raw materialsEvaluation technologies		 Although the market for semiconductor materials is currently in 		
Semiconductors Electronics	Semiconductor manufacturing equipment parts	Silicon processed products	SHECH WAS	 Material technologies Production processes (microfabrication technologies) 	FYE March 2024 Result	a downturn phase, it is expected to expand in the medium- to long- term. Therefore, we will establish a system to increase production in		
		Sealing products		 Material compounding technologies Custom shape designs Analysis/analytical technologies 	¥2.8 billion FYE March 2025 Forecast ¥3.8 billionn FYE March 2026	anticipation of future demand growth, and develop products and business to gain new orders. The market for next-generation automobiles is expected to continue to grow, and we will continue to work to make our way into the market with a focus on thermistor sensors.		
Automobiles Transport equipment	Automotive glass interlayers	Heat-ray shielding paints		Characteristic raw materialsDispersion technologies	Plan ¥8.6 billion			
	Automotive parts	Thermistor sensors		 Device development capabilities Customization capabilities (Injection molding technologies) 				

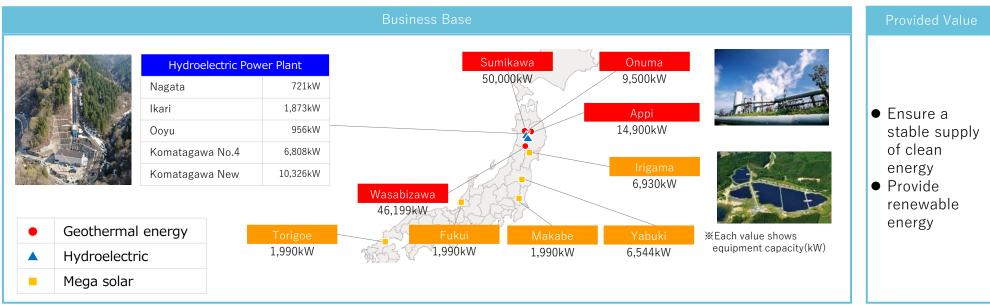
Metalworking Solutions Business Overview



Major industry	M	ain product group	Company	Strengths	Ordinary profit	Market outlook
Automobiles Transport equipment				 Cemented carbide 		
Aerospace	Cutting tools	Cutting tools	Mitsubishi Materials MOLDINO Tool Engineering	material manufacturing technologies • Coating technologies (CVD/PVD) • Extensive lineup (indexable tools to solid tools)	EVE 14 1 0004	 Despite concerns about the pandemic and global supply chain disruptions,
Medical					FYE March 2024 Result ¥12.2 billion FYE March 2025	the gradual recovery trend continues
Die & Mold					Forecast ¥14.0 billion FYE March 2026	
Mine excavation Secondary batteries Steel	Rock tools Wear- resistant tools		MMC Ryotec	 Cemented carbide material manufacturing technologies Design capabilities as strength in wear-resistant and rock tools 	Plan ¥25.0 billion	 Mine excavation, construction, and secondary battery markets all continue to recover
Cemented carbide Semiconductors Secondary batteries	Tungsten powder Advanced matal powder		Japan New Metals	 Integrated production, from tungsten recycling to smelting 		 Growing demand for high melting point materials due to the growth in electronic components

Overview of Renewable Energy Business

Business overview	Strengths	Ordinary profit	Market opportunities and prospects
Geothermal power generation	Since the Onuma Geothermal Power Plant opened in 1974, we have developed a power generation business based on our extensive experience in geothermal development and operation, including the supply of steam to the Sumikawa Geothermal Power Plant.	FYE March 2024 Result ¥0.8 billion	Opportunities Economic: Environmental value enhanced due to increasing demand for renewable energy Political: Contribution to national policies for the introduction of renewable energy Social: Increased social demand on companies to
Hydroelectric power generation	We also possess many years of experience in the operation of hydropower generation since its introduction in Japan.	FYE March 2025 Forecast	introduce renewable energy and reduce CO ₂ emissions ● Risks
Solar power generation	Supply of electricity and extensive development and operating experience utilizing the Group's idle land	¥2.4 billion FYE March 2026	Technological: Decline in competitiveness of facilities due to rapid technological innovation Environmental: Decline in power generation due to
Biogas	Waste plastic and sludge generated during the treatment process are used as raw materials and as an alternative to thermal energy at the cement plants of affiliated companies.	Plan ¥2.3 billion	change in weather patterns associated with climate change over a long period of time Investment: Increased investment costs due to
Wind power generation Storage batteries, etc.	Idle land, including Approx. 14,000 ha of forest land which we own in Japan, is utilized as new power source development sites.	_	increase in construction costs



Initiatives to Improve PBR in the FY2031 Strategy

Recognition of issues		The PBR at the end of the fiscal year ending March 2024 was 0.6 times, far less than 1 time. PBR is divided into ROE and PER; ROE is 4.8% and PER is 12.1 times, with ROE being particularly low.					
	Strategy Continuing achieve the Demonstra	to achieve ROE above 10%: maintaining and improving ROE above 10.0% from FYE March 2027 to ROE target of 13.6% in FY2031 ting stable growth with little fluctuation in earnings through the above process and supporting the of the FY2031 Strategy, thereby raising future growth expectations and improving PER					
PBR recovery plan	ROE Improvement	 Improving profitability Lowering the break-even point by reducing fixed costs (production cost reduction, yield rates improvement, SG&A cost reduction) (Total cost reduction of about ¥24.0 bn by FYE March 2031, ratio to operating profit about 13% in FYE March 2026 and about 19% in FYE March 2031) Investing in medium- to long-term growth areas such as resource recycling and expanding the scope and regions (Maximize ROIC spread and economic profit (ROIC spread x invested capital) for all businesses by FYE March 2031) 					
	PER Improvement	 Stable growth of earnings through formulation and implementation of the FY2031 Strategy, which is a medium-to long-term growth strategy (Ordinary profit target					

Operating Results

(Billions of yen)

		(Billions of yell)			
	FYE March 2020	FYE March 2021	FYE March 2022	FYE March 2023	FYE March 2024
PL					
Net sales	1,516.1	1,485.1	1,811.7	1,625.9	1,540.6
Ordinary profit	49.6	44.5	76.0	25.3	54.1
Profit (loss) attributable to owners of parent	(72.8)	24.4	45.0	20.3	29.7
BS					
Total assets	1,904.0	2,035.5	2,125.0	1,891.7	2,167.6
Net assets	586.0	614.3	655.7	628.8	685.6
CF					
Operating CF	67.5	78.4	6.8	45.1	51.3
Investment CF	(66.8)	(101.7)	(3.2)	(43.9)	(102.9)
Financing CF	28.8	41.5	(5.0)	3.4	32.9
Cash and cash equivalents at end of period	127.2	147.5	153.6	141.0	131.1

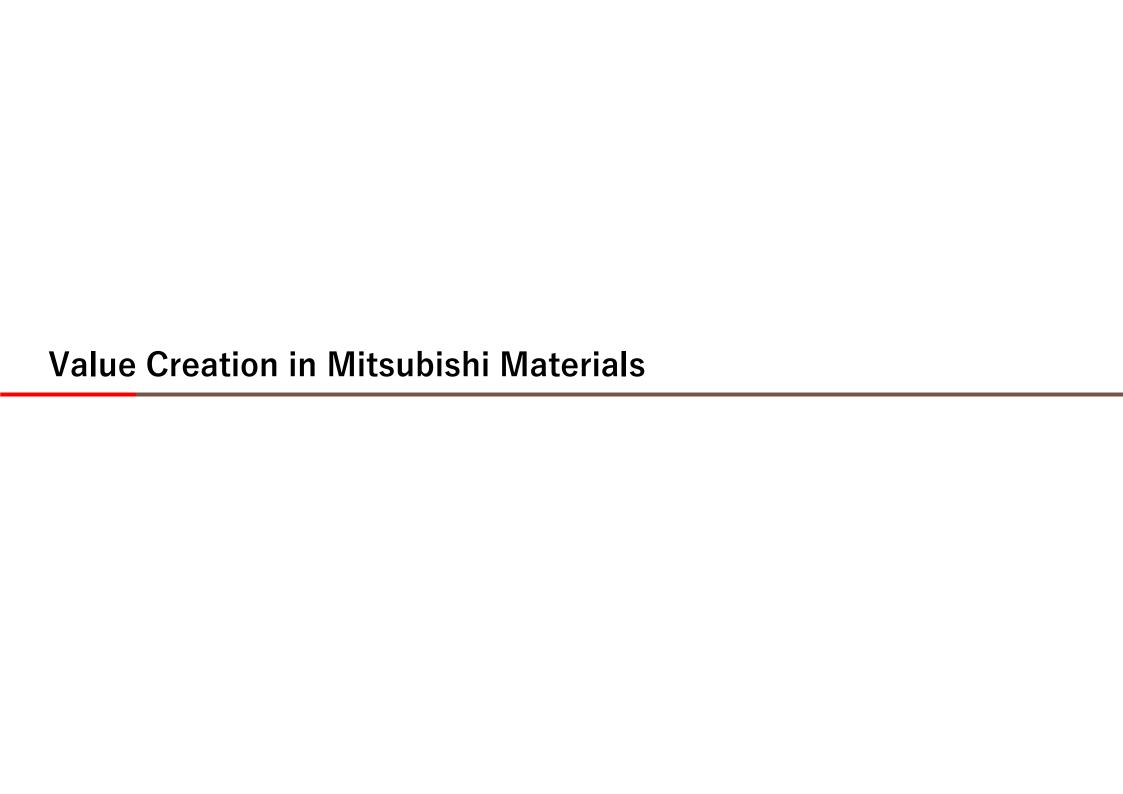
Share Price Trends (Past 10 Years)

The Company's stock price had been on a downward trend, but has been gradually recovering since 2023.



^{*}Based on closing price.

On October 1, 2016, the Company carried out a reverse stock split at a ratio of 1 share for every 10 shares, and the share prices before that date have been adjusted as required to take into account the impact of the reverse stock split.



Our Commitment

• For people, society and the earth, circulating resources for a sustainable future

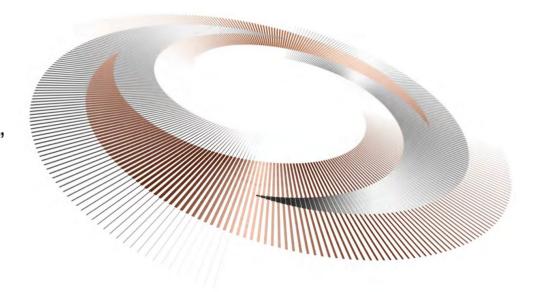
Corporate Philosophy For People, Society and the Earth

Thoughts underlying our Corporate Philosophy

We have the desire to deliver.

The materials and products we make and deliver, the solutions we offer, all of our efforts, and our very existence itself is "For People, Society and the Earth."

This is our desire, which is reflected in our Corporate Philosophy.



Our Vision

Circulating resources for a sustainable future

Our Mission

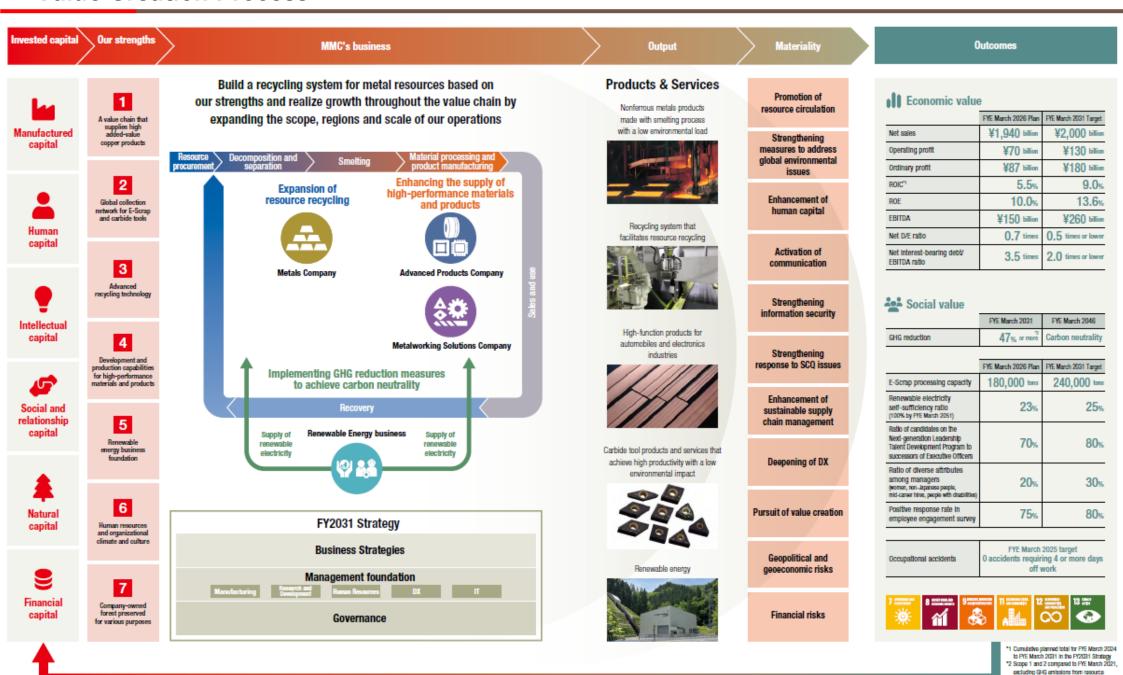
Create a sustainable future

Prosperous society

Recycling-oriented society

Decarbonized society

Value Creation Process



Materiality

• Based on the recognition that the sustainability of society as a whole will have a significant impact on the future of corporate activities, the Group has identified the most important social issues that we will resolve through corporate activities as material issues.

Materiality	Key themes	Materiality	Key themes	
D	Promotion of designing resource recycling through advanced	Full and the state of a section of the state	Diversifying procurement of raw materials	
Promotion of resource circulation	recycling technology	Enhancement of sustainable supply chain management	Consideration of human rights in the supply chain	
	Developing and providing recyclable products		Consideration of number rights in the Supply ontain	
	Strengthening initiatives to achieve carbon neutrality		Business process innovation	
Strengthening measures to address global	oriong mediatives to demove edison neutranty	Deepening of DX	Operational enhancement	
environmental issues	Biodiversity retention and reducing environmental impact		Enhancement of customer contact points; reform of business model	
	Developing and promoting the use of renewable energy		Building and execution of new business creation processes	
	Addressing labor shortage issues	Pursuit of value creation	Strengthening of manufacturing	
Full and a second of house or	Enhancing talent retention and development		Periodic review of investment strategies	
Enhancement of human capital	Promotion of DE&I (Diversity, Equity & Inclusion)		Collecting and sharing information on overseas risks and	
	Promotion of flexible working styles	Geopolitical and	individual country risks from overseas bases	
	Respect for individuals and fundamental human rights	geoeconomic risks (*2)	Creation and regular review of risk reduction and avoidance	
	Enhancement of engagement with stakeholders		measures, and BCP for overseas businesses	
Activation of communication	Improving customer satisfaction		Building a procurement portfolio of copper concentrates, E-	
	Promotion of dialogue and coexistence with local communities		Scrap, and other raw materials	
	Strengthening IT global governance		Introduction and operation of the Group's optimal cash	
Strengthening information security	Prevention of information leakage		management system	
Society	Strengthening IT asset management		Grasping the market value of assets held and confirming the	
	Prevention of occupational accidents	Figure state states	indication of impairment of fixed assets	
Strengthening response to	Creating mentally and physically pleasant workplace	Financial risks	Monitoring of the management and financial condition of debt	
SCQ (*1) issues	Prevention of infectious diseases		guarantee underwriting affiliates, etc.	
(Issues related to occupational safety and	Reinforcing compliance		Investment allocation considering safety and profitability in	
health, health management,	Enhancing internal control through Group governance		pension asset management	
compliance, environmental management, and quality	Enhancement of corporate governance			
management]	Preventing leakage of harmful substances outside the site			

^{*1} Safety & health (Safety & health come first), Compliance & environment (Compliance & environment to ensure fair activities), Quality (Quality of products and services provided to our "customers")

and eliminating environmental law violations
Elimination of serious quality non-conformities

^{*2} Risk that a country will try to achieve geopolitical goals (national interests) through economic means

Seven Strengths of the Mitsubishi Materials Group

A value chain that supplies high added-value copper products 🗸 🕍





- Investment in overseas copper mines through long-term friendly relationships with major resource companies
- Processes enabling efficient, environmentally friendly smelting and refining of clean copper concentrate
- Strong customer base and Japan's top capabilities for processed copper production



Mantoverde Copper Mine (Chile)

Global collection network for E-Scrap and carbide tools

- Global E-Scrap collection network through overseas bases such as MM Metal Recycling BV in the Netherlands
- Domestic network for the collection of used carbide tools
 - * E-Scrap: Waste circuit boards of electronic equipment, etc. that contain trace amounts of various precious metals.

Advanced recycling technology







- Material Grid framework enabling collection of a wide range of nonferrous metals including platinum group metals, lead and tin
- Automatic dismantling and sorting processes for items such as home appliances, enabling recycling of a wide range of resources
- The technology and know-how to recycle tungsten recovered from carbide tool scrap, etc. as a raw material

The Mitsubishi Process for continuous copper

Example of E-Scrap for being accepted/processed

Development and production capabilities for high-performance materials and products

- Development and production of oxygen-free copper, copper alloy, lead-free brass, etc.
- Supply of materials and components for semiconductor manufacturing equipment (columnar crystal silicon, sealing products)
- Supply of high-efficiency carbide tool products that utilizeour materials and coating technologies



Products made from GloBrass®, a lead-free brass material with superior machinability











Seven Strengths of the Mitsubishi Materials Group

Renewable energy business foundation 🕍 🍷 🌲







- Advanced exploration and analysis technology for geothermal resources
- Decades of business experience in areas such as geothermal and hydroelectric power generation

Human resources and organizational climate and culture

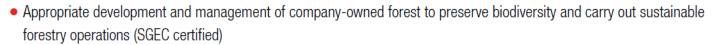


- Talent with wide-ranging expertise in a variety of roles
- A team that can unite to resolve issues
- Mutual trust between colleagues and between management and employees

Company-owned forest preserved for various purposes







- Company-owned forests are utilized for education and community exchange activities
- Wood from company-owned forests is utilized as a building material













(entire construction area)



Company-wide Implementation of 1-on-1



Acer miyabei Maxim in Hayakita Forest (vulnerable species)

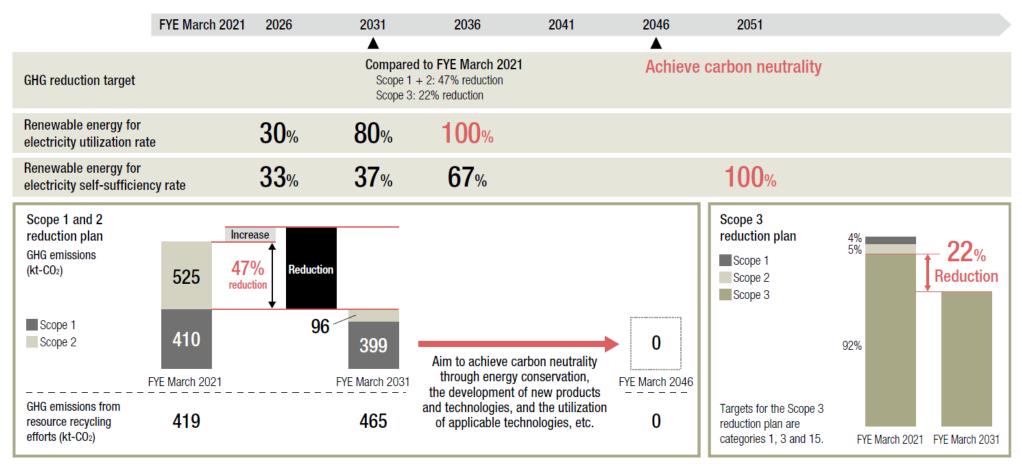
GHG Reduction Targets toward Carbon Neutrality

- We set the fiscal year ending March 2046 as our target year for carbon neutrality (Five years ahead of the Japanese government's target year of the fiscal year ending March 2051)
- We will achieve 100% self-sufficiency in renewable energy electricity by the fiscal year ending March 2051 (amount of renewable energy generated equivalent to our own electricity consumption).

Scope 1: Direct emissions of greenhouse gases by companies themselves (Fuel combustion, industrial processes)

Scope 2: Indirect emissions from the use of electricity, heat and steam supplied by other companies

Scope 3: Indirect emissions other than scope 1 and scope 2 (Emissions from other companies related to business activities)



^{*}GHG emissions for Scope 1 and 2 are based on the calculation of adjusted emissions under the Act on Promotion of Global Warming Countermeasures (excluding GHG emissions from resource recycling efforts).

^{*}GHG emissions exclude businesses and subsidiaries that have been or will be removed from the scope of consolidation due to business portfolio adjustment by the fiscal year ended March 2024.

Direction of Carbon Footprint (CFP) Initiatives

*1 Carbon footprint of products (CFP) is part of Life Cycle Assessment(LCA) and extracts items related to GHG emissions.

LCA is a method of quantitatively evaluating input resources, environmental load and environmental impact across the life cycle of a product.

Applications and calculation methods for CFP are being investigated from a variety of perspectives by governments, industry organizations, and others. As interest in CFP initiatives is growing both in Japan and abroad, we will move forward with our own CFP initiatives in the following directions.

Deployment

- Continue sequentially calculating CFP for our main products.
- Begin building systems for ensuring data reliability.







Verification & Disclosure

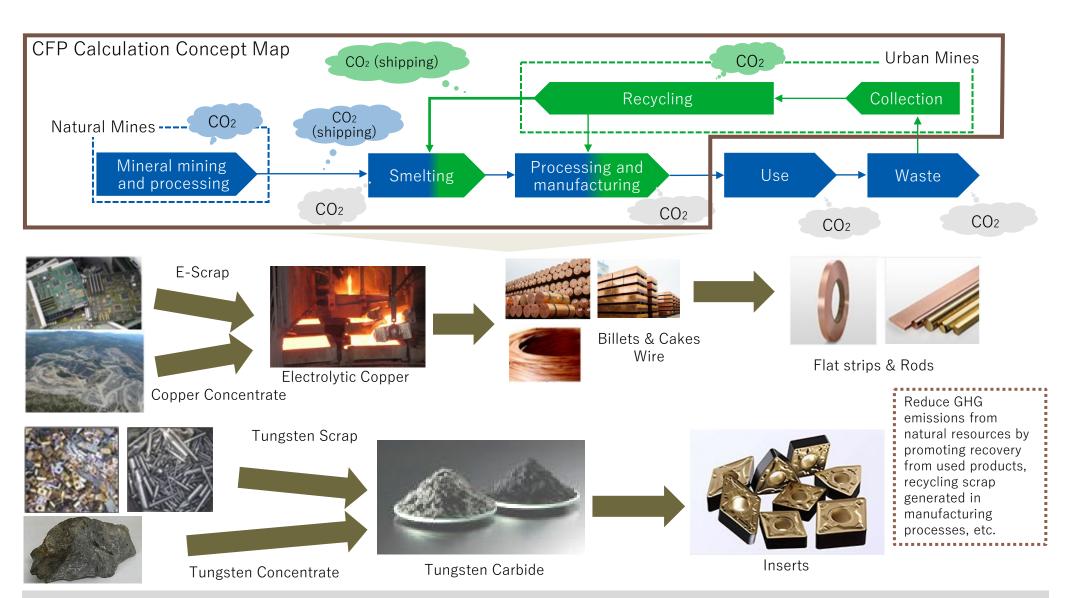
- Proceed as necessary with third-party verification and disclosure for products for which CFP has already been calculated.
- Aim to complete third-party verification for our electrolytic copper during this fiscal year.

Reduction

- Make systematic plans to reduce CFP (fuel conversion, increased processing of E-Scrap, etc.).
- Increase engagement *2 with suppliers, and promote consistent GHG reduction initiatives both upstream and downstream.
 - * 2 Supplier engagement progress: Approximately 40% of Scope3 Category 1 (purchased products and services) emissions

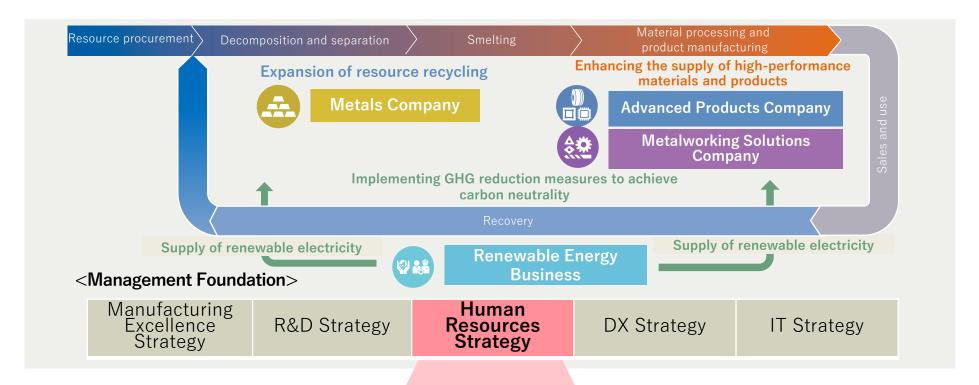
Promotion of recycling and reduction of GHG emissions

• We have estimated the CFP of our copper and tungsten products and worked to improve the accuracy of our calculations.



With the aim of realizing a recycling-oriented society and a decarbonized society, we will contribute to promoting social change through our business activities while simultaneously promoting our own recycling and reducing GHG emissions.

Human Capital Initiatives



The MMC Group's Approach to Human Capital

Maximizing the Value of Human Resources and Creating an Organization Dedicated to Winning

- Developing and retaining human resources for business growth
- Realizing flexible employment and work styles
- Maximizing capabilities of individuals and supporting autonomous growth

Building a Foundation for Co-creation and Growth

- Accelerating transformation through integrating diverse human resources and the values
- Fostering job fulfillment through well-being
- Maximizing organizational capability through data utilization

"Individual employees and the Company grow together and achieve enhanced corporate value"

Human Capital Initiatives

Maximizing the Value of Human Resources and Creating an Organization Dedicated to Winning

Developing and retaining human resources for business growth

- Developing and retaining candidates for management leaders
- Developing and retaining talents necessary to strengthen competitiveness and manufacturing capabilities
- Strategically selecting recruitment channels and employment patterns in line with business strategy

Next-Generation Leadership Talent Development

Realizing flexible employment and work styles

- Advancing human resources management aligned with external labor market
- Promoting flexible work styles that are not restricted by time and place

Job-based HR System

Supporting flexible work styles

Maximizing capabilities of individuals and supporting autonomous growth

- Creating an organization dedicated to winning through performance management
- Supporting autonomous growth and building a learning organization

Internal Job Posting System

1-on-1

New Training System

Building a foundation for co-creation and growth

Accelerating transformation through integrating diverse human resources and values

- Developing and retaining diverse human resources
- Cultivating awareness and culture to create new values from different opinions by embracing each other's diverse individuality

Measures to Drive Diversity and Inclusion

Fostering job fulfillment through well-being

- Continuously improving employee engagement
- Driving health and productivity management

Engagement Survey

Health and Productivity
Management

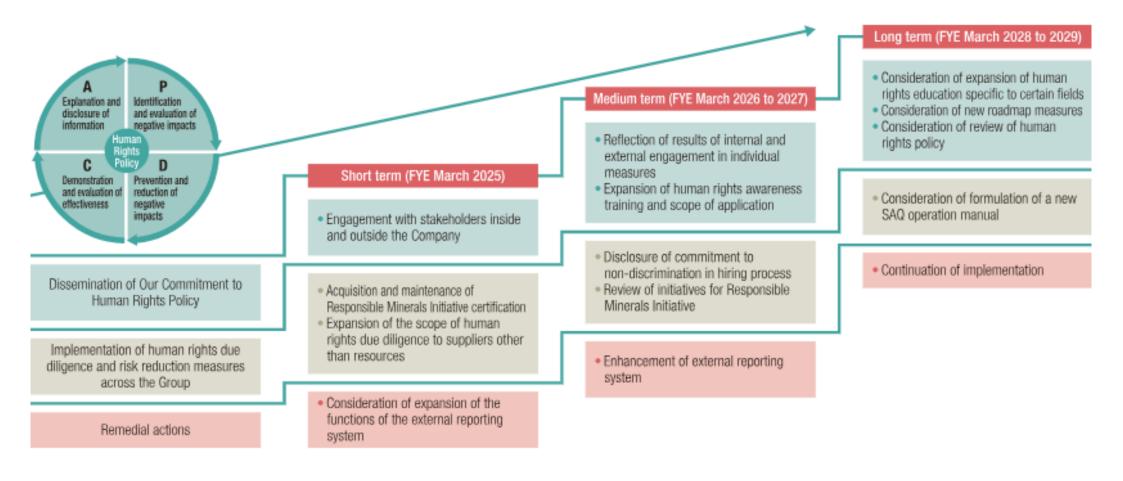
Maximizing organizational capability through data utilization

- Enhancing talent management by utilizing HR system
- Developing environment for further utilization of human resources data and promoting data-driven measures

Talent Management System

Human Rights Initiatives

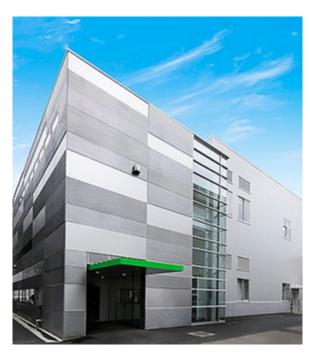
- Based on the results of the analysis of the self-checklists conducted in the fiscal year ending March 2023 and the fiscal year ending March 2024, the Group formulated a roadmap for its efforts to respect human rights over the five years from the fiscal year ending March 2025 to the fiscal year ending March 2029.
- While continuously implementing human rights due diligence, the Group will identify issues related to human rights, identify risks, and implement improvement measures.



Occupational safety and health

■ Promoting Hazard Sensitivity & Other Safety and Health Education

At the Safety and Health Education Center, Midori-kan, onsite at our Saitama Office (Saitama Prefecture, Saitama City), we provide hazard sensitivity training (50 types of simulation equipment) and safety and health education for MMC Group employees.

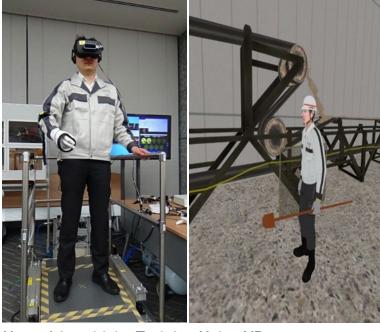


<u>Safety and Health Education Center -</u> "Midori-kan"

This facility is equipped to provide
•hazard sensitivity training designed to
improve risk sensitivity among
employees, and

•various other types of safety and health education

to employees of MMC and other Group companies.



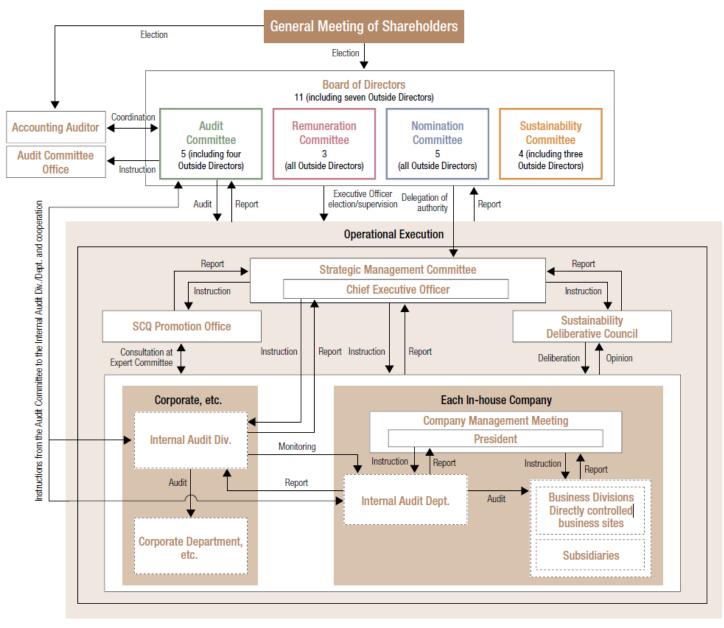
Hazard Sensitivity Training Using VR

To enable participants to experience hazardous situations that are difficult to simulate with conventional equipment, we began using VR hazard sensitivity training in May 2018. The equipment is portable, making safety education possible at any site.



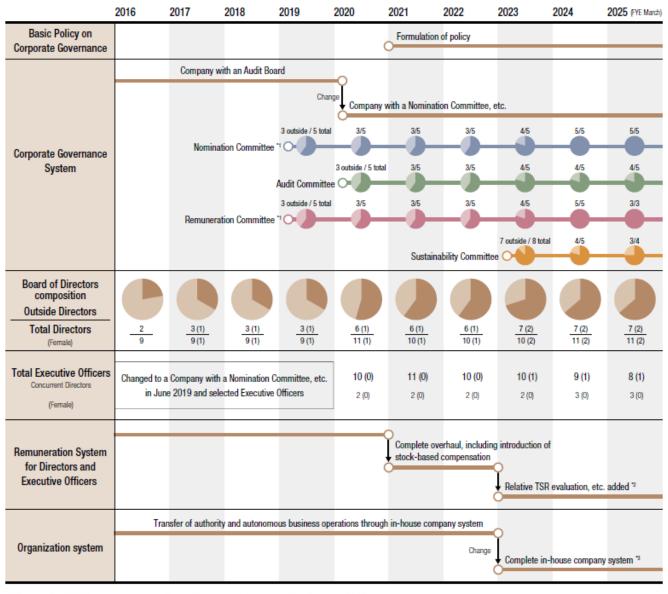
Corporate Governance System

• In 2019, the Company transitioned from a company with a board of corporate auditors to a company with a nominating committee, etc. In 2022, the Company established the Sustainability Committee in order to increase corporate value over the medium- to long-term.



Changes in Corporate Governance System

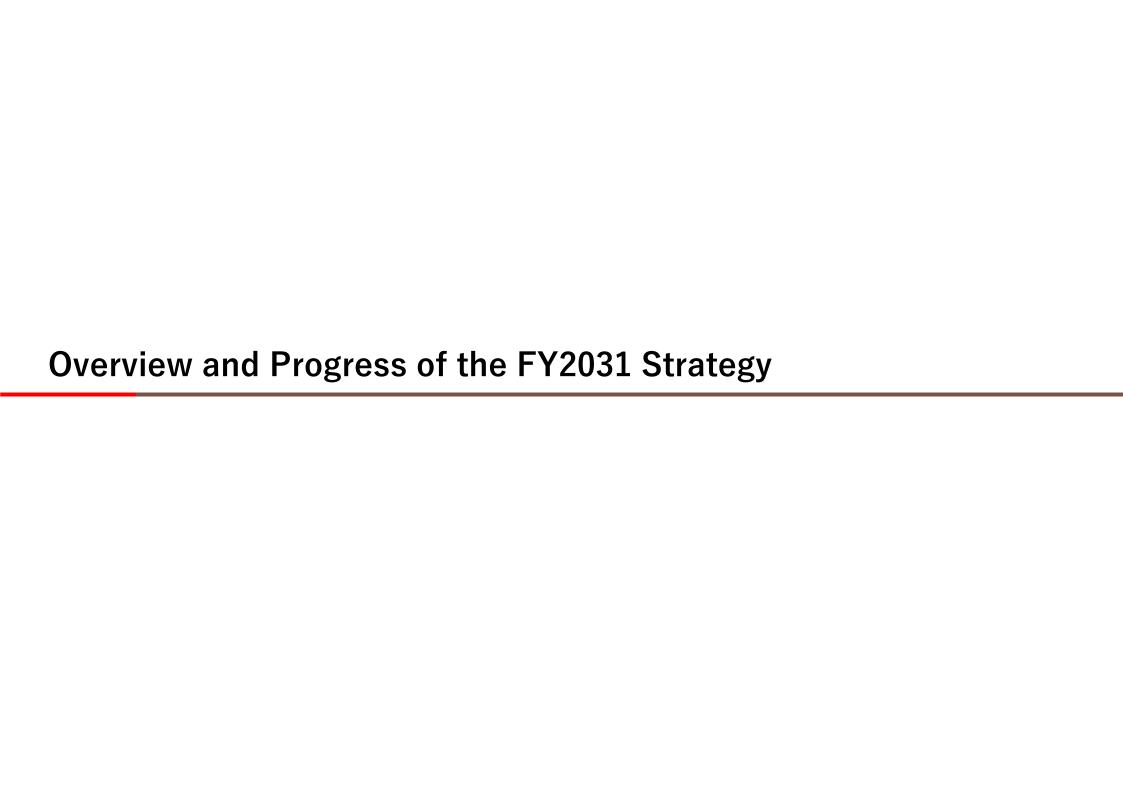
• Achieved a high level of governance, with the members of each committee consisting mainly of independent Outside Directors, and the Nomination Committee and Remuneration Committee consisting solely of Outside Directors.



^{*1.} Set up in fiscal 2019 as a voluntary committee and became a statutory committee from June 2019.

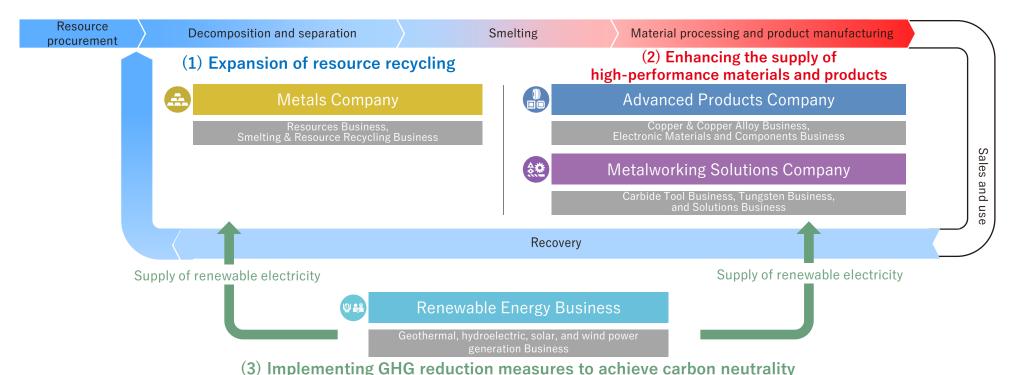
^{*2.} With regard to the annual bonus of the remuneration system for Executive Officers, we added relative TSR evaluation as an evaluation item and adopted a system to evaluate targets set for each Executive Officer, including initiatives in line with the Sustainability Policy, as non-financial evaluation items.

^{*3.} Transitioned from April 1, 2022 to a complete in-house company system, having all functions necessary for business operations in the in-house company.



Medium-term Management Strategy FY2031 (the FY2031 Strategy)

In order to fulfill "Our Commitment," we will build a recycling system of metal resources based on our strengths and realize growth throughout the value chain by <u>expanding the scope</u>, <u>regions</u>, and <u>scale of our operations</u>



1 Expansion of resource recycling

Expansion of recycling targets (E-Scrap processing, LIB/xEV material, Tungsten, Wrought copper products) and expansion of recycling regions

2 Enhancing the supply of high-performance materials and products

Supply of products for growth markets such as semiconductors and xEVs Expansion of tungsten business in cemented carbide tools

3 Implementing GHG reduction measures to achieve carbon neutrality

Promotion of geothermal power generation in the Renewable Energy business (100% self-sufficiency in renewable power electricity in the fiscal year ending March 2051)

Implementation of GHG reduction measures to achieve carbon neutrality in the fiscal year ending March 2046

Review of FYE March 2024, Forecast for FYE March 2025

- Operating profit in the fiscal year ended March 2024 fell short of our initial plan, due to the effects of weakening automobile and semiconductor markets. In contrast, we made efforts to enhance cost competitiveness, such as by implementing cost reduction measures in each of our businesses, ahead of schedule in the FY2031 Strategy.
- In the fiscal year ending March 2025, demand for both automotive and semiconductor products is expected to recover from the second half of the fiscal year.
- We can achieve our strategy targets by implementing the various measures provided in the FY2031 Strategy and enhancing our cost competitiveness.

		FYE March 2023 Result	FYE March 2024 Initial Forecast	FYE March 2024 Result	FYE March 2025 Forecast	FYE March 2026 Plan	FYE March 2031 Target
Net sales (Net sales excluding metal charges)	Billions of yen	1,625.9 (608.0)	1,670.0 (706.0)	1,540.6 (548.1)	1,950.0 (652.0)	1,940.0 (690.0)	2,000.0 (850.0)
Operating profit	Billions of yen	50.0	50.0	23.2	41.0	70.0	130.0
Ordinary profit	Billions of yen	25.3	58.0	54.1	63.0	87.0	180.0
ROIC	%	1.4%	4.1%	3.8%	4.3%	5.5%	9.0%
ROE	%	3.5%	6.8%	4.8%	6.7%	10.0%	13.6%
EBITDA	Billions of yen	75.7	113.0	105.0	117.4	150.0	260.0
Net D/E ratio	Times	0.7	0.7	0.7	0.7	0.7	0.5 or less
Net interest-bearing debt / EBITDA ratio	Times	5.2	4.1	4.5	4.3	3.5	2.0 or less
Dividend per annum	Yen	50	94	94	100		

Market Conditions and Business Opportunities

Market conditions in the Company

Resources

 The amount of 5.5 million tons of copper in short supply in the fiscal year ending March 2031 as ore supply from copper mines fails to meet rising copper demand

E-Scrap

 In the fiscal year ending March 2031, the amount is more than twice the current level, but lock-in in each region is common



- The number of the used LIBs increases several dozen times in the fiscal year ending March 2031 with the acceleration of xEVs conversion
- Battery processing technology needs to be advanced

Automobile

- xEV market grows by 25% annually
- Increasing demand for higher currents and voltages, expanding needs for high-performance sensors and high-precision components for various control applications



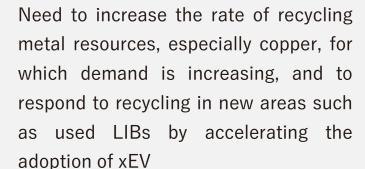
- Demand recovers due to the calming down of COVID-19
- Increased use of high-performance materials partly due to environmental measures



- The market is growing at an annual rate of 5%
- Advances in semiconductors and manufacturing equipment are accelerating

Business opportunities for the Company

Expansion of the resource recycling



Enhancing the supply of highperformance materials and products

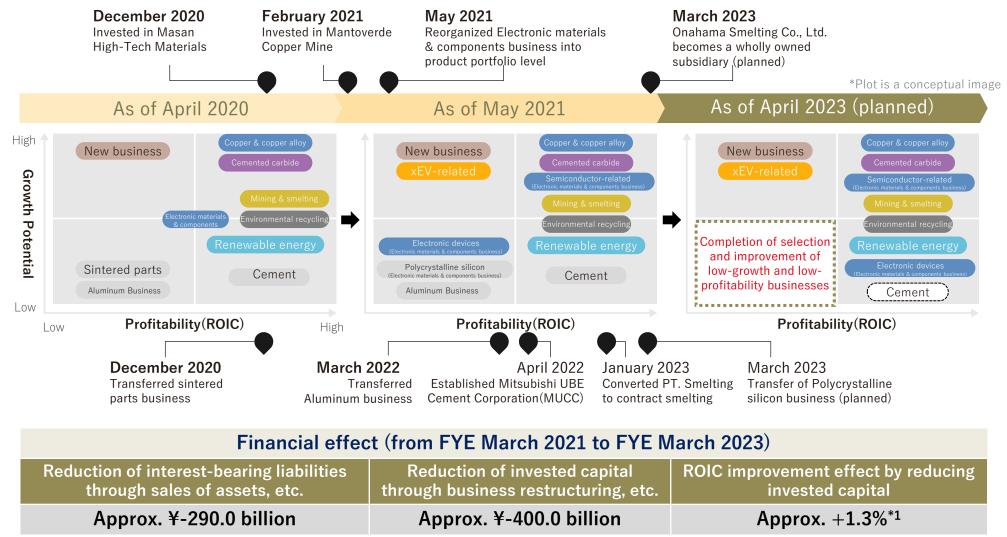
Need to respond to the demand for xEV in automobiles, the high-performance materials in aerospace, and the product sophistication in semiconductors

Trends in the External Environment

		Demand	 Growth is slowing due to a generally sluggish global economy and delayed economic recovery in China; however, in the medium- to long-term, demand for copper will remain strong due to demand for EVs and renewable energy, as well as demand for data centers as the digitalization society progresses.
	Copper	Copper Price	• Copper price was 379¢/lb in FYE March 2024 (full year), down from 388 ¢/lb in the previous fiscal year, but are now around 400 ¢/lb. Steady movement is expected due to anticipated long-term growth in demand.
		TC/RC	 Supply concerns have led to strong buying by Chinese smelting operations and traders, and spot TC/RCs are extremely low; as smelting capabilities continue to grow in Indonesia and India, there are concerns that TC/RCs will remain low.
	Autom Indus		 In Q1 FYE March 2025, the automoile sales increased year-on-year worldwide but decreased in Japan. Demand for our wrought copper and cemented carbide products remained sluggish, especially in Japan. A gradual recovery in automobile sales is expected in Q2 and beyond. However, there is a view that growth will slow down, and we need to continue to monitor demand trends closely.
	Semiconductor Industry		 In Q1 FYE March 2025, the semiconductor market is showing signs of recovery, especially for generative AI. A full-fledged recovery in demand from semiconductor material manufacturers located upstream is expected to occur in H2 onward.

Changes in the Business Portfolio

- During the previous the Medium-term Management Strategy period (FYE March 2021 FYE March 2023), we
 restructured our business portfolio and focused on businesses with high profitability and growth potential
- Although the current business environment is facing headwinds, we will pursue profitability and growth potential in our core businesses

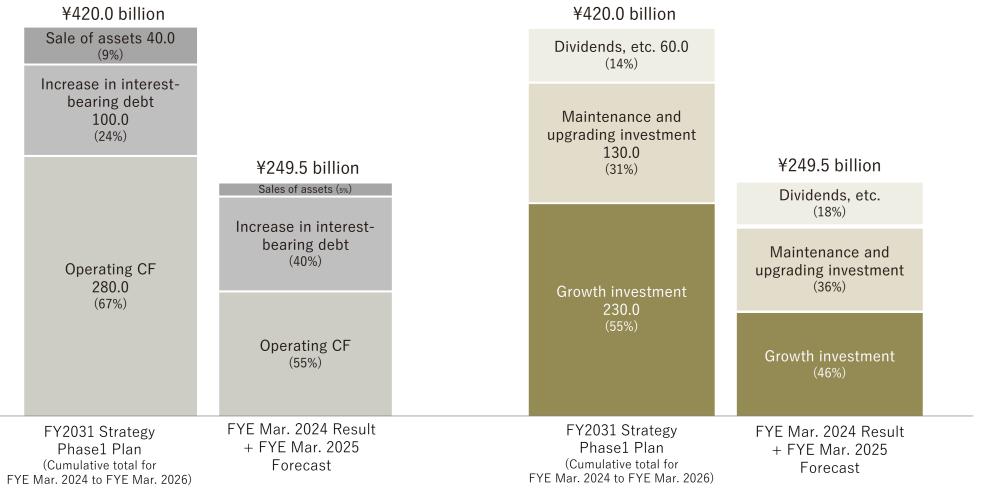


^{*1} We estimate the ROIC improvement effect compared the case of executed of business restructuring with the case of continuing these business. (No NOPAT impact in each case)

Capital Allocation

- Cash inflow: Operating CF for FYE March 2024, the first year of Phase1, was lower than expected. As for FYE March 2024 results and FYE March 2025 forecasts, the D/E ratio to the FY2031 Strategy Phase1 plan has increased.
- Cash outflow: We will execute required growth investment.
- While the market is currently recovering, we are aiming to realize the cash allocation envisaged in Phase1. Even if the operating CF does not reach the target level, we will realize an appropriate cash allocation while securing the growth investment necessary to realize the strategy.

■Comparion of FYE March ended 2024 result and FYE March 2025 forecast to the FY2031 Strategy Phase1 plan (Progress rate: 59.4%)



(): Percentage of total amount

OUT

IN

Strategic Roadmap

- Phase1 Improving profit growth and profitability by strengthening cost competitiveness and investing in medium- to long-term growth areas centered on resource recycling
- Phase2 Expansion of business scale through regional development including overseas, in addition to expansion of target business areas

FYE March 2024 - FYE March 2026

FYE March 2027 - FYE March 2031

	Phase1 Strengthening Competitiveness	Phase2 Business Expansion	
Expanding the resource recycling	Investment: ¥ 110 billion (3 years) • Start LIB recycling • Expansion of the Tungsten business	Investment: ¥ 140 billion (5 years) New copper mine investment Capacity expansion of copper smelters	
Enhancing the supply of high-performance materials and products	Investment: ¥ 70 billion (3 years) • Strategic investment in semiconductor manufacturing equipment area • Improving supply chain efficiency	 Investment: ¥ 110 billion (5 years) Expanding the scale of carbide tools Expanding the supply of xEVs materials 	
Investment in renewable energy	Investment: ¥5 billion (3 years)	Investment: ¥25 billion (5 years)	
Strengthening cost competitiveness	Ratio of improvement in ordinary profit to net sales: $+5.4\%^{*1}$	Ratio of improvement in ordinary profit to net sales: +4.9%	
Operating Cash Flow	¥280 billion (3 years)	¥790 billion (5 years)	
EBITDA*2growth rate (CAGR)	16.5%*3	11.5%	

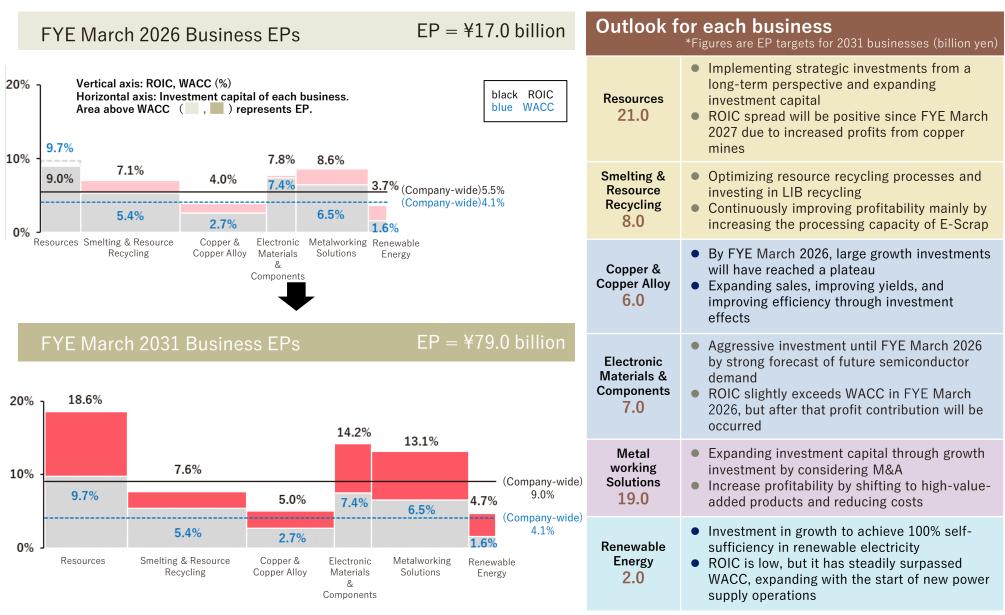
^{*1} Range of improvement in the ratio of ordinary profit to net sales. Net sales excluding metal.

^{*2} EBITDA=Ordinary profit + Interest expense + Depreciation + Amortization of goodwill (same as below)

^{*3} Cement business loss in FYE March 2023 excluded

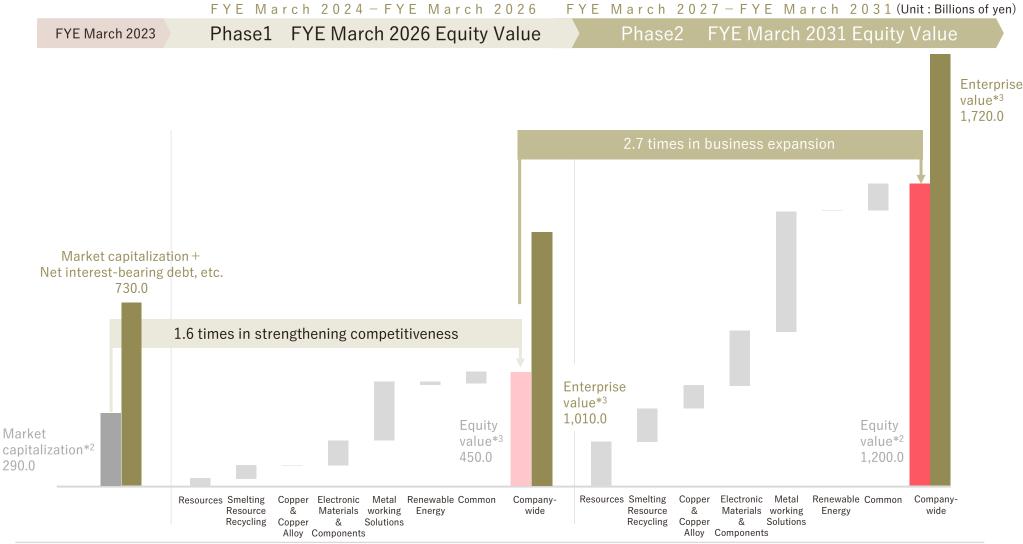
Business Management Indicators (ROIC, ROIC Spread, EP)

- Optimize the allocation of management resources from a company-wide perspective and aim to increase the ROIC spread and expand Economic Profit (EP) by increasing investment capital
- ROIC will be lower than WACC in the Resources Business in the fiscal year ending March 2026, but higher than WACC in all businesses in the fiscal year ending March 2031, and an increase in EP will increase corporate value



Enhancing Equity Value and Enterprise Value (by SOTP*1 Analysis)

• Under the Medium-Term Management Strategy FY2031, the company aims to grow EBITDA and improve its balance sheet to increase its equity value and enterprise value, and to achieve approximately four times its equity value by the fiscal year ending March 2031



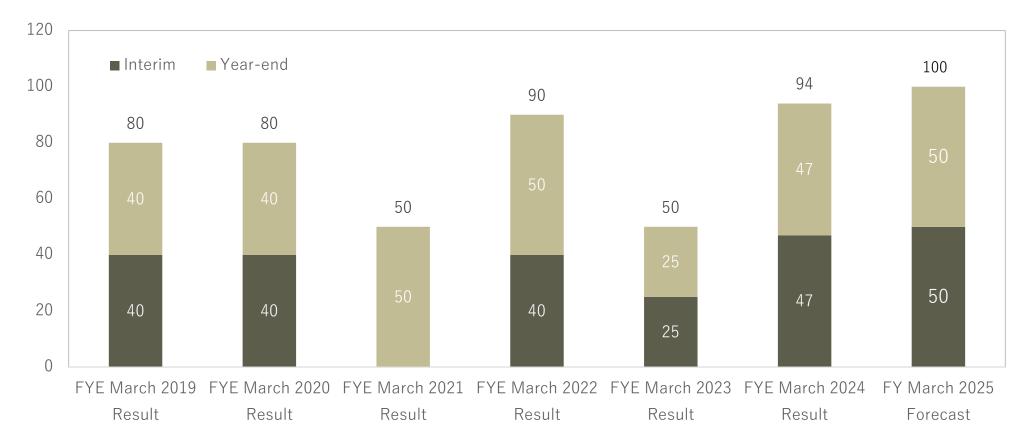
^{%1} Sum-of-the-Parts

Enterprise value and equity value are figures calculated independently by the Company using SOTP analysis based on the business performance forecast of the FY2031 Strategy and the Company does not guarantee the stock price

^{**3} Enterprise value is calculated by multiplying EBITDA for each business by a multiple that takes into account the same industry, and net interest-bearing debt is deducted from enterprise value to calculate equity value

Enhance shareholder returns

- From FYE March 2023 to FYE March 2025 (Phase 1 of the FY2031 Strategy), we will aim for a payout ratio of 30% in shareholder returns.
- From FYE March 2027 to FYE March 2031 (Phase 2 of the FY2031 Strategy), we will enhance shareholder returns
- We will consider flexible share buybacks based on cash flow conditions, stock price, net D/E ratio, and other financial discipline



^{*}Breakdown of FYE March 2022 Dividends Interim Dividend: Ordinary Dividend ¥ 25.00 Special Dividend ¥15.00 Year-end Dividend: Ordinary Dividend ¥35.00 Special Dividend ¥15.00



Overview of the FY2031 Strategy for Each Business Segment

2) Enhancing the supply of high-*Explanation of initiatives related to 1) Expansion of resource recycling business-specific strategies in blue performance materials and products Promotion of technological development to recover rare metal resources contained in copper deposits Resources Acquisition of copper mining interests and securing copper concentrates through continuous investment in mines Expansion of electrolytic copper supply through SX-EW operations at copper mines Metals Strengthening and expanding the networks to promote resource recycling Company Expansion of electrolytic copper production capacity *Considering the recent deterioration in TC/RC, sulfuric acid prices, etc., we are Increasing the recycling rate by expanding the treatment of recycled Smelting & currently reviewing a change in the direction of our strategy. products containing metal resources • Creation of rare earths and rare metals recycling businesses Recycling Accelerating business developments in Japan and overseas (E-Scrap, home appliances, automobile recycling) • Improve the recycling rate of wrought copper products and establish • Overseas (Luvata): Rapid entry into growing markets (xEV, healthcare, Copper & a scrap platform base Copper Expand sales and strengthen services to overseas customers by Alloy establishing a new overseas plant which carries out a downstream process, with the domestic plants as mother ones **Business** Advanced Highly capital-efficient management through continual restructuring of the business **Products** portfolio Company Strategic investment in focal products in growth areas Electronic Developing and securing human resources for the creation of new businesses and Materials& the promotion of business alliances Components • Enhancing manufacturing capabilities and DX to enhance production sophistication Business and profitability Providing business and social value (SDGs) for carbon neutrality Tungsten Business Cemented Carbide Tools Business • Stable supply of the world's top quality, high-efficiency products Expansion of business scale for rechargeable batteries in addition to carbide tools, etc. utilizing the strength of materials and coating technology **Metalworking Solutions** • Strengthening environmental responsiveness Company Solutions Business • Commercialization of solution sales to manufacturing sites

3) Supply of renewable electricity

Renewable Energy Business

- New development at one location every three years to expand business
- New entrants into wind power generation where power generation costs are expected to decline in the future
- Further development of new biogas plants

Medium-term Management Strategy FY2031 Targets and Progress by Business

(Billior	ns of yen)	FYE March 2023 Result	FYE March 2024 Result	FYE March 2024 Forecast	FYE 2031 Strategy Plan	FYE 2031 Strategy Target	Direction for achieving FY2031 Strategy targets
Resources	Ordinary profit	2.4	20.1	17.9	11.4	48.3	 Operations are ramping up thanks to the expansion of Los Pelambres
	EBITDA	2.5	19.0	16.6	11.1	49.2	Copper Mine, and the mine dividend is in line with plan
	ROIC	1.1%	11.7%	10.5%	9.0%	18.6%	• In the fiscal year ending March 2026, ROIC is expected to temporarily decrease and EP is expected to be negative due to investment in mines.
	EP		2.1	0.9		21.0	
	Ordinary profit	25.9	11.6	19.0	27.0	35.0	Tront morodood ado to a roviow of motal prices and a roadetion in modeling
Smelting & Resource	EBITDA	42.6	28.8	33.4	39.6	53.2	 costs in response to an increase in electricity costs ROIC is on an improving trend due to an increase in profits
Recycling	ROIC	8.3%	2.9%	5.7%	7.1%	7.6%	
	EP		-7.4	1.0		8.0	demand outlook for E-Scrap by region
	Ordinary profit	-0.0	-0.5	7.3	12.4	16.4	
Copper & Copper Alloy	EBITDA	9.3	10.6	20.5	24.6	32.4	 Lower raw material costs by improving recycling rate Promote sales expansion of key accounts in Japan and expand to overseas
	ROIC	0.6%	0.6%	3.2%	4.0%	5.0%	
	EP		-4.5	1.1		6.0	• Accelerate sales still to high-profit products
Electronic	Ordinary profit	7.7	2.8	Semiconductor man	Semiconductor market, effects of increased production due to recovery		
Materials &	EBITDA	11.5	6.9	8.7	16.0	29.0	and growth in demand for automobiles (mainly EVs), additional sales expansion measures (Si semi & finished products, device products)
Components	ROIC	8.7%	3.3%	3.8%	7.8%	14.2%	 ROIC improvement through implementation of growth investment plans tailored to semiconductor market conditions
	EP		-2.7	-2.7		7.0	tanorea to semiconductor market conditions
	Ordinary profit	14.5	12.2	14.0	25.0	52.7	5 Strengthen tungsten business (recycling, manufacture and sale of high-
Metalworking	EBITDA	27.4	24.5	28.8	39.9	68.7 performance powders ar	performance powders and alloys) through Acquisition of H.C. Starck, Germany
Solutions	ROIC	6.9%	5.2%	5.3%	8.6%	13.1%	 Improve sales efficiency and productivity using DX Reduce inventories and improve capital efficiency
	EP		-2.1	-2.0		19.0	• Reduce inventories and improve capital emclency
Renewable Energy	Ordinary profit	0.9	0.8	2.4	2.3	4.3	Contribution to earnings from stable operation of Appi Geothermal Power Plant
	EBITDA	1.9	2.2	5.1	4.6	8.1	Promotion of geothermal and wind power generation projects under
	ROIC	3.8%	3.4%	4.7%	3.7%	4.7%	 investigation Search for potential new geothermal power generation sites
	EP		0.5	1.3		2.0	 Consideration of wind power generation using its own Company-owned forests

Expansion of Resource Recycling

• In terms of resource recycling, we will <u>expand the scope</u>, <u>regions</u> and scale of our operations based on trends and laws and regulations in each country and region.

Expanding the Scope of Resource Recycling

- E-Scrap recycling (Improving processing capacity)
- ➤ <u>LIB recycling</u> (Pilot plant design in progress)
- In-process recycling of the Copper & Copper Alloy business (Cost reduction, copper smelter load reduction → Increasing E-Scrap)
- > Cobalt recovery at a copper mine (Pilot plant testing underway at Mantoverde Copper Mine)
- ➤ Tungsten Recycling

(Cutting tool raw materials, aiming to become global top through acquisition of H.C. Starck)

- Construction of resource recycling loop
 - Home appliances: Scaling up in Japan and overseas
 - Automobile recycling: Scaling up targeting EV vehicles
 - Creating a recycling system to extract important mineral resources from various products and supply them as raw materials for products

Expanding Business Regions

Economic bloc, enclosure
of important mineral
resources
Japan: Economic security
USA: IRA law
EU: Various regulations

Toward intraregional circulation

> Establishment of a new company in Europe

 Development of resource recycling strategies in Europe and rapid implementation (E-Scrap/Copper-based scrap/LIB/Tungsten)

> Enhancement of E-Scrap Recycling by Domestic Smelters

- Enhancement of E-Scrap processing capacity by improving smelting and pretreatment capacity
- Expansion of Collection Centers in Europe
- Investment in mines to secure low-impurity copper concentrates
- Enhancing functions of MEX*
 *Online E-Scrap trading system

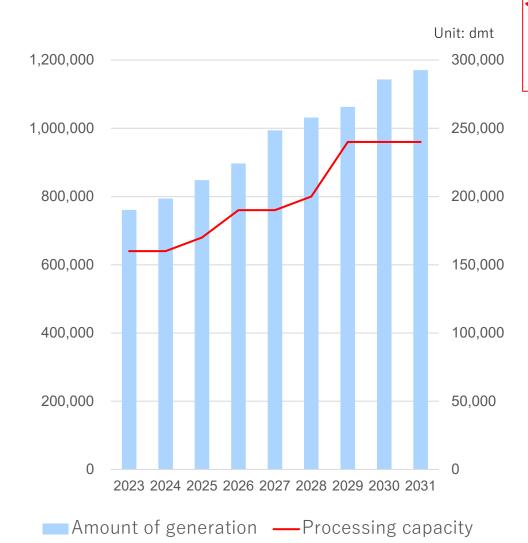
> Investment in Exurban

- Participation in the construction and operation of a recycling plant in Indiana, USA
- Expansion outside the USA

Business Environment - Trends in E-Scrap Market Size and Competitors







share of approximately 21%, according to E-Scrap-based estimates

Our processing capacity: 160kdmt/y(2022)→240kdmt/y(2028)

Maintaining the top level of global market

<Trends in competitors to increase E-Scrap processing capacity>

Company A

Construction of a dedicated
E-Scrap furnace
(Processing capacity)
60Kdmt/Y to 100Kdmt/Y

Company B

Expansion of the smelters processing capacity (Processing capacity) 30Kdmt/Y to 43Kdmt/Y

Company C

E-Scrap processing capacity: 120,000 tons per year

Company D

Plans to introduce pretreatment furnace

Company E

Announcement to rise the ratio of recycled materials in their raw materials to 50% by 2040

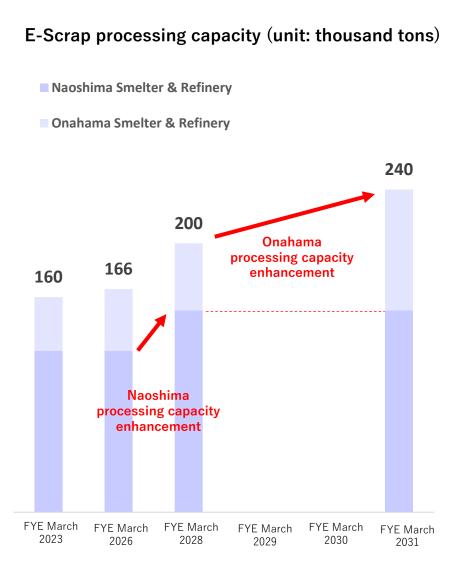
Company F

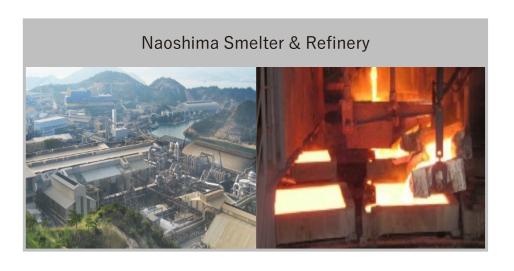
Operation of sampling facilities

Source: The Company's own estimation

Improvement of E-Scrap Processing Capacity

- We are aiming to maximize our E-Scrap processing capacity to reach 240,000 tons by the fiscal year ending March 2031.
- As for Naoshima Smelter & Refinery, we will increase our copper smelting and other facilities, thereby increasing the
 processing capacity by the fiscal year ending March 2028.
 In Onahama Smelter & Refinery, we will build a pretreatment facility for increasing the processing capacity and start
 operation in the fiscal year ending March 2029.

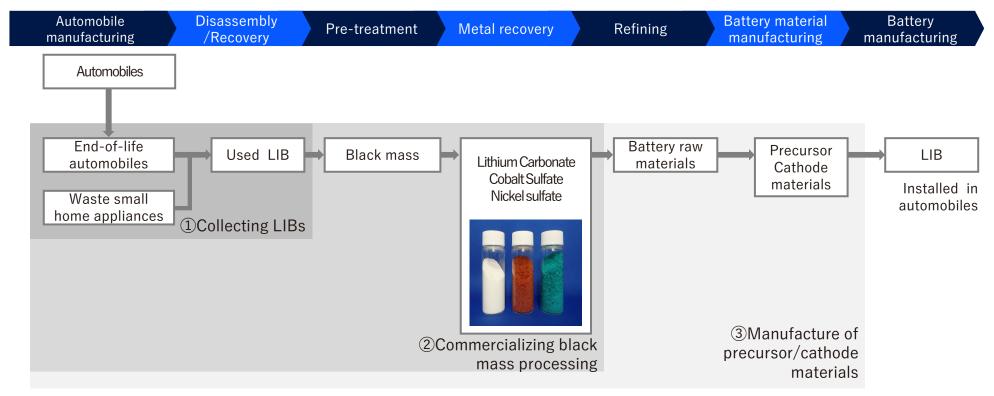






LIB Recycling

- We will <u>establish a recycling technology to recover rare metals at high efficiency by using our smelting technology and know-how</u> we have cultivated over the years, including recovery of copper and precious metals.
- We aim to <u>contribute to the establishment of an integrated recycling system</u> from lithium-ion battery (LIB) processing to the stable supply of lithium-ion battery materials.



- Secured global competitiveness through the "early development of a consistent recycling process from LIB to battery materials," "collection of black mass utilizing the network built through the E-Scrap business," and the "efficient recovery of lithium carbonate, cobalt sulfate and nickel sulfate from Black Mass"
- Expanding the Company's business domain through the recovery of LIBs from end-of-life vehicles (1), commercialization of Black Mass processing through collaboration with other companies (2), and further development of precursor/cathode material manufacturing (3)
- Constructing a pilot plant at Onahama Smelter & Refinery site (scheduled to start operation in 2025) and further developing technologies toward commercialization of highly efficient recovery of rare metals from Black Mass

Metals Company

Progress of Mantoverde PJ (Copper Concentrate Production and Cobalt Recovery)

- Copper concentrate production began in June 2024. Full-scale operation is expected in the second half of 2024.
- Profitability forecasts for the current period project negative profits for the first half of the fiscal year, which is the launch period, but profitability will be achieved for the year overall as operations ramp up moving into the latter half of the fiscal year.
- A pilot plant test for cobalt recovery has started since January 2024.

< Concentrator >



< Aerial overview>



< Overview >

Location and Geography

Atacama Region, Northern Chile

Approx. 50 km from the coastline and 176 km to the nearby city of Copiapo

Altitude: 880 m

Although located in a desert area with little rainfall, the mine has a seawater desalination plant.

Resources (contained metal) 5.7 million t Cu

Reserves (contained metal) 2.1 million t Cu

Mining method Open pit

Copper production 1.7 million t Cu over mine life

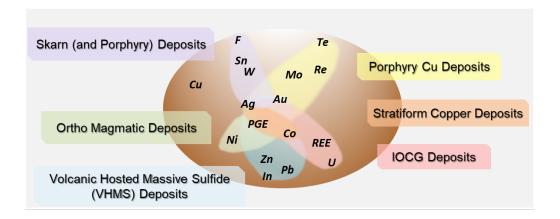
Mine life 2041

Metals Company

Industrialization of the Recovery of Valuable Metals from Copper Deposits

Purposes

To recover valuable metals unique to each deposit type of mines we have invested in



Initiatives for the future

- Develop elemental technologies through joint research between Mitsubishi Materials' Institute of Mining and Technology and other domestic and overseas research institutes including universities
- Implement pilot-scale demonstration tests to start commercial production (use of subsidies)
- Implement FS on the recovery of valuable metals in cooperation with partners of the mines, etc. we have invested in and venture companies possessing the necessary technologies

Case example at Mantoverde Copper Mine

- At the Mantoverde Copper Mine, both sulfide ore and oxide ore contain trace amounts of cobalt. Technologies are being developed to establish a process to separate and recover this as cobalt and nickel tailings.
- Commercial production is scheduled to begin around 2027.
- Efforts are also planned to be made to promote the valuable metals recovery business at other mines for which our company owns mining concessions in the future.



Agreement for the Acquisition of Shares of H.C. Starck Holding

- Mitsubishi Materials ("MMC") has reached an agreement to acquire all shares of H.C. Starck, one of the world's leading manufacturers of tungsten products.
- For cemented carbide tools, which uses tungsten as its main raw material, we will accelerate efforts to secure global collection and recycling capacity for used cemented carbide tools.
- By leveraging tungsten business bases in Japan, Europe, North America and China, Mitsubishi Materials Group and H.C.
 Starck will develop a global tungsten recycling business.

Strengthening R&D capabilities through the cooperation between Japan New Metals Co., Ltd. Corporation (Wholly owned subsidiary of MMC) and H.C. Starck

Creating synergies and improving corporate value through cross-selling initiatives

Global business development of tungsten recycling by utilizing recycling technologies and bases owned by both companies

<Company Profile of H.C. Starck Holding (Germany) GmbH>

Address	Gosler, Germany		
CEO	Dr. Hady Seyeda (Managing Director)		
Business Manufacture high-quality powders made of tungsten powder, tungsten carbide pow alloys in Europe, North America, and China and has sales networks worldwide, including Own the world's largest tungsten recycling capacity			
Share Capital	€25,000 (approx. ¥4 million)		
Year of Establishment	Establishment 1920		
Major Shareholders and Shareholding Ratio	Masan Tungsten Limited Liability Company 100% (Wholly owned subsidiary of Masan Hi-Tech Materials Corporation, Vietnam)		
Net Sales (FYE March 2024)	Approx. €334 million (approx. ¥52.4 billion)		

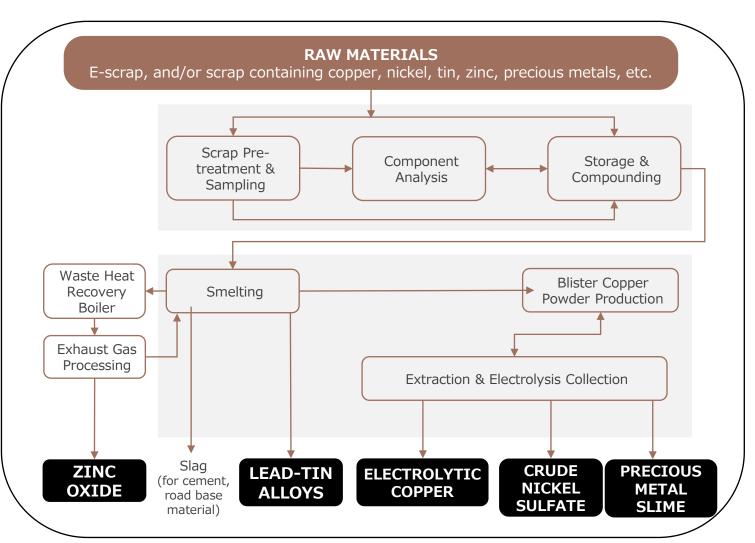
- As we anticipate continuing trends toward local recycling within regions and local production for local consumption in North America, we are participating in this project as a means of gaining a foothold in the N.
 America region, and to acquire technology specialized for smelting secondary raw materials.
- With Exurban, we aim to provide solutions for building resource recycling systems.
- The Feasibility Study for our new recycling plant construction project in Indiana, USA will soon be completed.



Exurban Project

Recycled Products

- Electrolytic Copper
- Precious Metal Slime
- Crude Nickel Sulfate
- Tin & Lead Alloys
- · Slag, etc.



Copper & Copper Alloy Business: Capacity Expansion Investment in the Rolling Business



Advanced Products Company

• We are progressing capacity expansion investment in the rolling business as planned. Since production capacity is anticipated to improve after the completion of the work in Sambo Plant, we will strive to expand sales in order to match up sales to production.



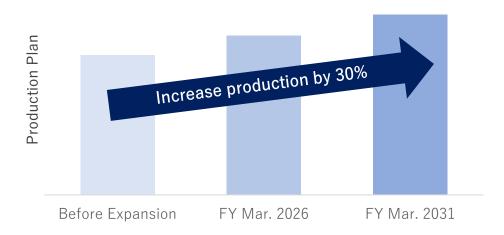




Increase production of copper sheet and strip products

- ◆ Strengthen and expand core businesses (copper sheets and strips)
- **♦** Further expand market share in the domestic market
- **◆** Taking on the challenge of the global market

Production capacity expansion plan for copper sheets and copper strips

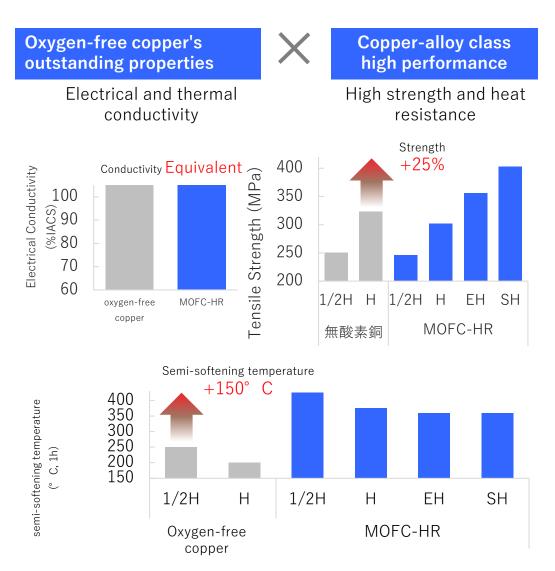


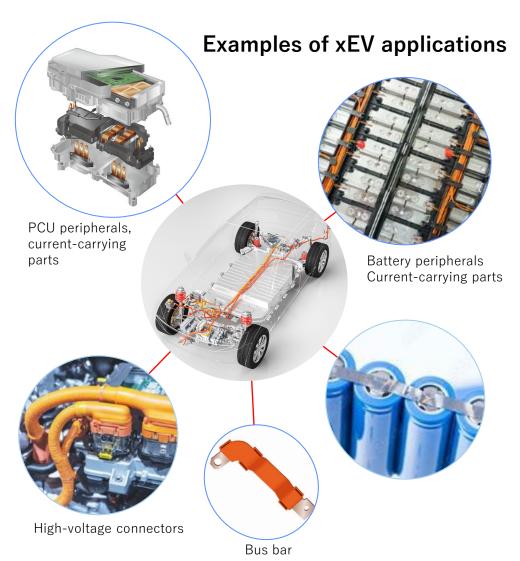
		Sakai Plant	Sambo Plant	Wakamatsu Plant
Location		Sakai City, Osaka Prefecture	Sakai City, Osaka Prefecture	Aizuwakamatsu City, Fukushima Prefecture
Products targeted for increase production		Copper cake	Copper sheet and strip	Copper strip
	Increase in production			
Plan	Investment	Enhancement of casting facilities	Installment of additional cleaning machine, slitter, and packaging machine	Installment of additional slitters and packing machines and enhancement of reflow tin plating line
Commencement of operation		Started operation	Scheduled to start operation in October 2024	Scheduled for October 2024

Advanced Products Company

Copper & Copper Alloy Business Oxygen-free Copper

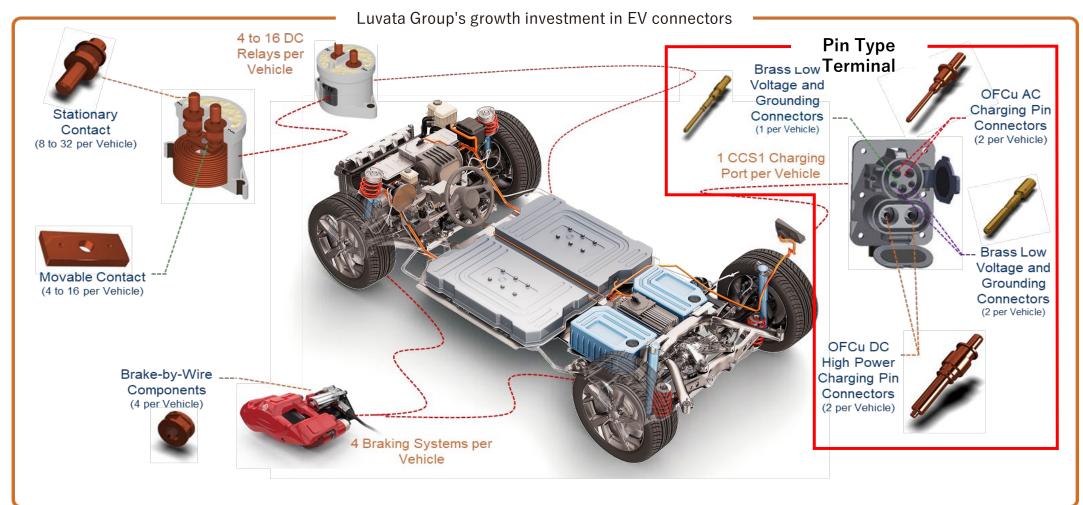
We developed MOFC-HR (Mitsubishi Oxygen Free Copper - Heat Resistance), an oxygen-free copper with the world's highest level
of strength and heat resistance, and are promoting its adoption as a material that requires high current and high heat dissipation in
harsh environmental conditions, such as xEVs and next-generation energy





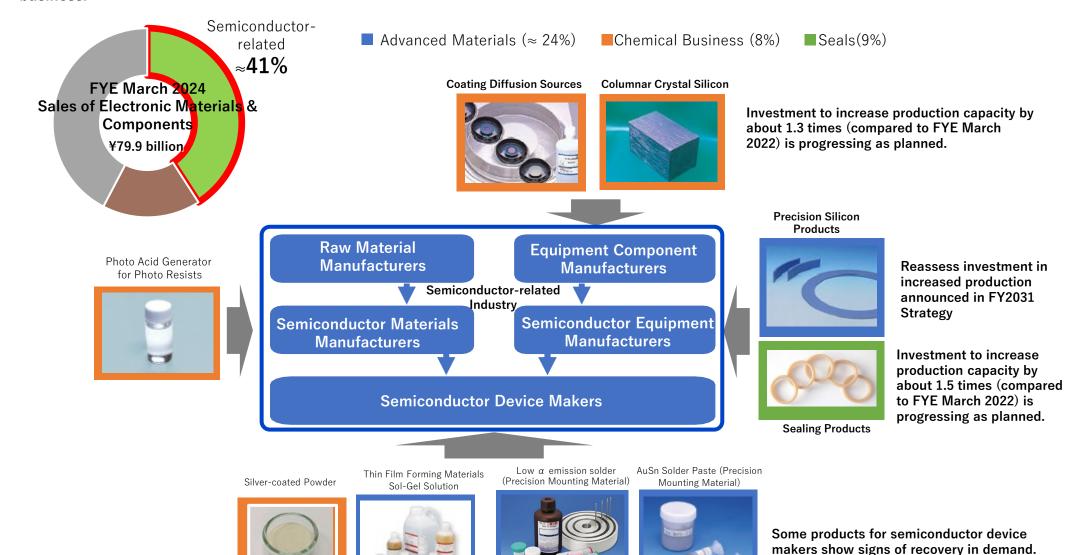
Luvata Group's Growth Investment in EV Connectors

- We will expand sales of pin-type terminals in the expanding EV market by leveraging the cold forging technology cultivated in the welding electrode business.
- We are proceeding with capital investments to build a production system in the Americas, Europe, and Asia.
- In the Americas, we are moving ahead with mass production. As the demand is strong, and we will gradually expand the market.
- The market is expected to grow as EV production increases, with an average annual growth rate of 21% by 2029.



Electronic Materials & Components Business: Status of Semiconductor Products

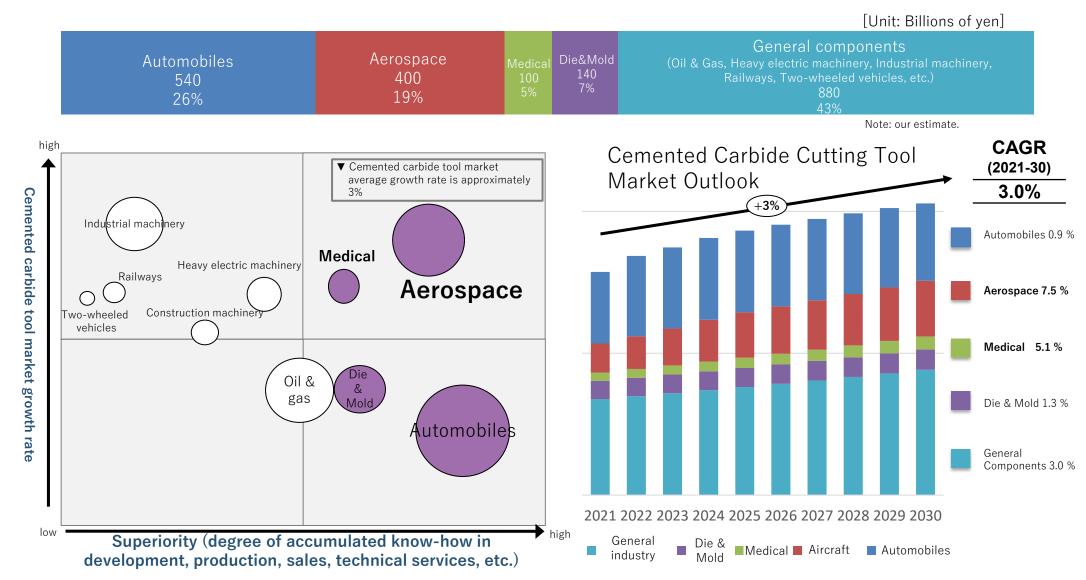
- While the precise timing will differ for each of our products, we anticipate demand to recover in or around the latter half of FYE March 2025.
- Since the business environment for precision silicon products has deteriorated, we will reassess the planned investments in increased production and shift to other growth areas. We will also work on measures to increase sales shares among major customers, acquire new customers, enter new fields, etc.
- We will continue to strengthen cost competitiveness by reducing fixed costs such as labor and maintenance costs, mainly in the functional materials business.



Metalworking Solutions Company

Cemented Carbide Cutting Tool Market Outlook

 Demand for cemented carbide cutting tools is expected to grow at an annual rate of about 3%, reaching approximately 2.6 trillion yen per year in 2030.



Note: Market size in 2022: ¥1.69 trillion/year (our estimate)



- Under the FY2031 Strategy, we make use of our accumulated technology & experience, putting effort into product development in the areas of difficult-to-process & difficult-to-cut materials
- We are expanding our product lineup in the automobile, aerospace, medical, and metal mold markets, and market development is advancing steadily
- We are moving forward with development of drills that revolutionize small-hole drilling, and also cutting tools with unprecedented functionality

 Sales Ratio in Market Growth Rate

			Major Industries	CAGR (2021-30) Our Estimate
	Automobile .	Adding turning products featuring highly oriented Al ₂ O ₃ coatings Expanding our range of long-life milling products featuring our Al-Rich coating	Approx. 50%	0.9%
New Product	•	Entered supply contract with major French OEM. Specific initiatives are		
<u>Ratio</u>	Aerospace	under consideration. Strengthening cooperation with domestic Japanese heavy industrial	Approx. 10%	7.5%
FYE Mar. 25 Target 18%		makers →Advancing blade processing applications, etc.		
FYE Mar. 24 Result 9.4%	Medical •	Adding more small-bore solid tools for difficult-to-cut materials →Now developing a growing market share, mainly in North America	Approx. 5%	5.1%
	Metal Molds	Building our end mill series for machining of hardened steels Expanding our solutions for high-difficulty processes	Approx. 35%	1.3%

■ Developing New Products



- We successfully balance improved durability and chip disposal by modifying the spiral design of the coolant holes.
- We help avoid delays and maintain machine efficiency by avoiding breakages.

Sensing Tools



- Cutting tools featuring a displacement sensor that measures the dimensions of the material being cut, and a vision sensor that photographs the cut surface.
- Allowing measurement of cut material immediately after cutting, automatic adjustment, imaging of the cut surface, and more.

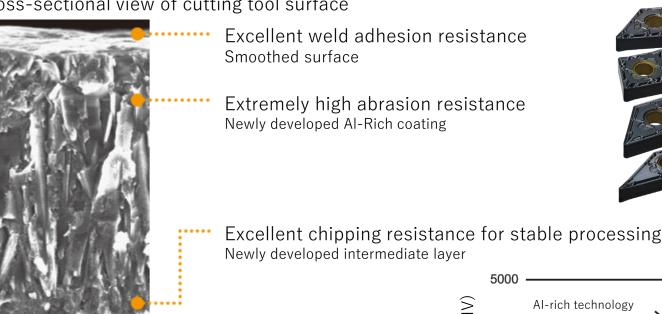
Hard phase

Metalworking Solutions Business: Our Unique Technology

• Using the industry's top-class aluminum-titanium film formation deposition technology, "Al-rich Coating Technology," we have developed cutting tools with high adhesion and wear resistance, and developed them for use in heat-resistant alloy processing applications in the aerospace industry.

Cutting insert grades MV series (MV1020, MV9005)

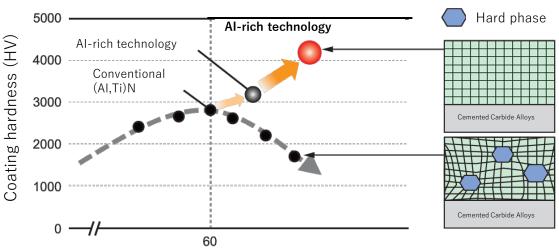
Cross-sectional view of cutting tool surface





Chip resistance with extreme stability

Special cemented carbide base material



Al content ratio (at%)

Metalworking Solutions Business: Autonomous Business Development in Strategic Markets

- To increase overseas production capacity, we plan to invest ¥15.0 bn in Europe and the U.S. and ¥9.5 bn in Asia by FY2031, thereby strengthening development functions and expanding inventories of the bases to meet the needs of each region.
- In light of the large size of the European market and the expected growth in the aircraft market, eastern Europe, and other areas, the expansion of the Spain plant began this fiscal year.
- By shifting from exports from domestic plants in Japan to shipments from plants optimally located close to the place of consumption, we will optimize our supply chain and strengthen our BCP response.





Energy Business

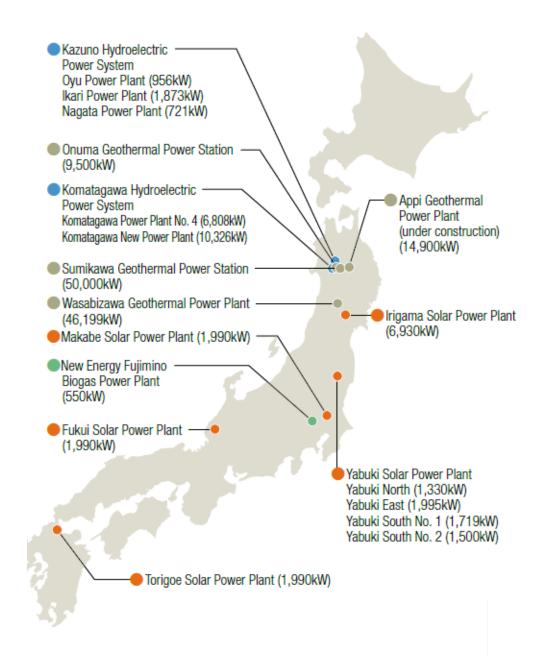
- Renewable Energy Business Sites
- To expand renewable energy business, we will promote the development of new geothermal power plants at a pace of one every three years
- Accelerate the entry of new wind power plants

Total installed capacity $\sim\!159\text{MW}$

Geothermal power generation currently being considered

- Esan area, Hokkaido Prefecture
- Komonomori area, Akita Prefecture
- Appi River upstream area, Iwate Prefecture
- Bandai area, Fukushima Prefecture
- Agatsuma / Adatara area, Fukushima Prefecture





Appi Geothermal Power Plant

- The construction work was completed within the budget. The commercial operation started from March 1, 2024, one month ahead of the plan.
- The operation is going smoothly at the planned output capacity (14,900 KW).
- In the fiscal year ending March 2025, we expect operating profit of ¥ +2.1 billion and profit attributable to owners of parent of ¥ +1.3 billion.



Appi Geothermal Power Plant (photographed on March 27, 2024)

Overview of Appi Geothermal Power Plant

Name	Appi Geothermal Power Plant		
Location	Hachimantai National Forest, Hachimantai-city, Iwate		
Type of motive force	Steam power (geothermal)		
Output capacity	14,900kW		
Construction started	August 2019		
Power generation system	Single flash system		

Operator	Appi Geothermal Energy Corporation
Establishment	October 2015
Share capital	¥100 million
Investment ratio	Mitsubishi Materials Corporation 51% Mitsubishi Gas Chemical Company, Inc. 34% Electric Power Development Co., Ltd. 15%

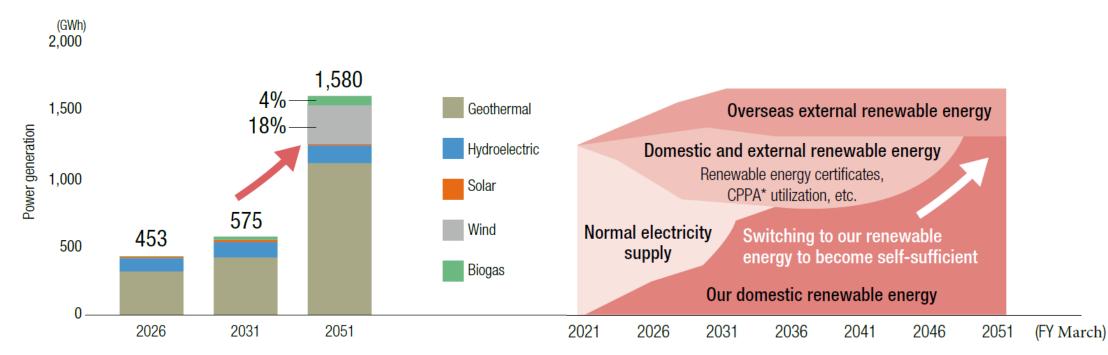
Renewable Energy Business

Toward being 100% self-sufficient on renewable energy

- With the aim of achieving power generation equivalent to our electricity consumption by FYE March 2051, we are expanding our geothermal power generation business and developing new renewable energy power generation, mainly wind power
- We plan to achieve 100% of electricity from renewable energy sources by FYE March 2036 and 100% self-sufficient on renewable energy by FYE March 2051

Expansion of renewable energy power generation

Roadmap toward being 100% self-sufficient on renewable energy



^{*} CPPA (Corporate Power Purchase Agreement)

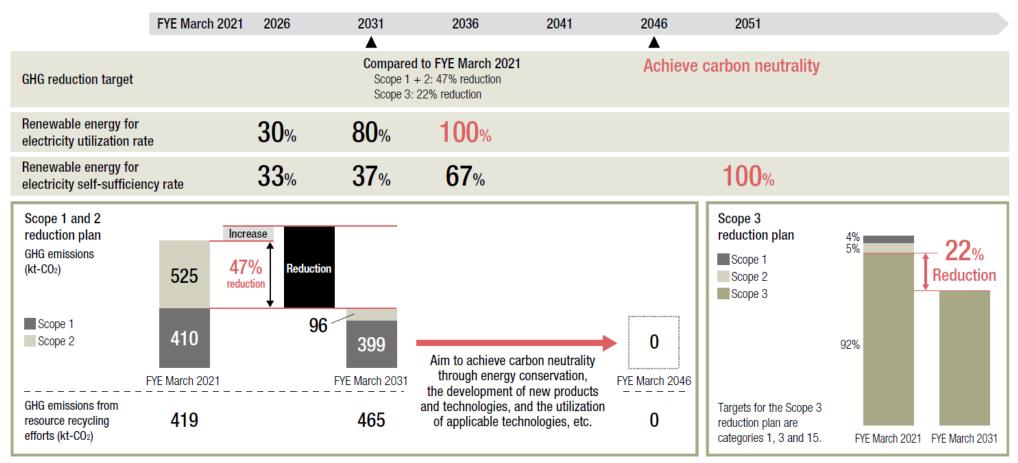
GHG Reduction Targets toward Carbon Neutrality

- We set the fiscal year ending March 2046 as our target year for carbon neutrality (5 years ahead of the Japanese government's target year of the fiscal year ending March 2051)
- We will achieve 100% self-sufficiency in renewable energy electricity by the fiscal year ending March 2051 (amount of renewable energy generated equivalent to our own electricity consumption).

Scope 1: Direct emissions of greenhouse gases by companies themselves (Fuel combustion, industrial processes)

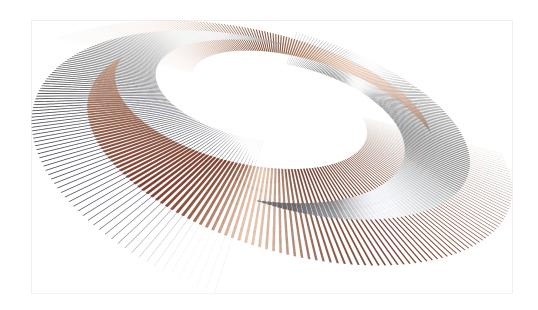
Scope 2: Indirect emissions from the use of electricity, heat and steam supplied by other companies

Scope 3: Indirect emissions other than scope 1 and scope 2 (Emissions from other companies related to business activities)



^{*}GHG emissions for Scope 1 and 2 are based on the calculation of adjusted emissions under the Act on Promotion of Global Warming Countermeasures (excluding GHG emissions from resource recycling efforts).

^{*}GHG emissions exclude businesses and subsidiaries that have been or will be removed from the scope of consolidation due to business portfolio adjustment by the fiscal year ended March 2024.



For people, society and the earth, circulating resources for a sustainable future



For more information, please contact:

Mitsubishi Materials Corporation IR Group, Corporate Communications Dept. Strategic Headquarters

Marunouchi Nijubashi Building, 3-2-3, Marunouchi, Chiyoda-ku, Tokyo 100-8117, Japan

email: ml-mmcir@mmc.co.jp

https://www.mmc.co.jp/corporate/en/index.html

< Disclaimer >

These projected performance figures are based on information available to the MMC's management as of the day for releasing this material. There are many uncertain or risk factors inherent in this projections, and there might be cases in which actual results materially differ from projections of this material.