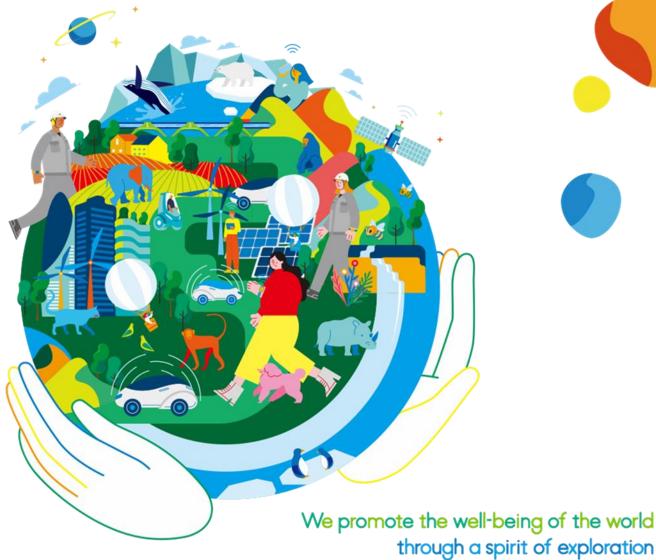
ESG Briefing Session

November 18, 2024 Mitsui Mining & Smelting Co., Ltd.



and diverse technologies.



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2.	Opportunities and Risks Initiatives for Environmental Issues	KAWAHARA Makoto FURUKAWA Shinichi	Senior Executive Officer, Senior General Manager of Technology Sector in charge of ESG General Manager of the CSR Office, Sustainability Promotion Department
3.	Initiatives for Job Satisfaction Reforms	HORIGUCHI Makoto	General Manager of the Rewarding and Engaging Work Promotion Office, Human Resource Department
4.	Business Model Innovation	KAWAHARA Makoto	Senior Executive Officer, Senior General Manager of Technology Sector in charge of ESG
5.	Governance	SHIKI Kazuya	Director, Audit and Supervisory Committee Member





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Message from the President

We promote the well-being of the world through a spirit of exploration and diverse technologies.



We commenced 2022-2024 Medium Term Business Plan (22-24 MTP) in conjunction with establishing Purpose (Our social reason for existence).

Under the 2025-2027 Medium Term Business Plan (25-27 MTP) as well, we will accelerate sustainable growth and enhancement of corporate value over the medium to long term based on "ambidexterity" and "integrated thinking-based management."



Purpose

We promote the well-being of the world through a spirit of exploration and diverse technologies.

Ambidexterity

- Exploration (Experiment and act on new business)
- Exploitation (Business efficiency improvement and ceaseless kaizen efforts)

Integrated thinking-based management

- Social value improvement
- Financial value improvement

Accelerate sustainable growth and enhancement of corporate value over the medium to long term



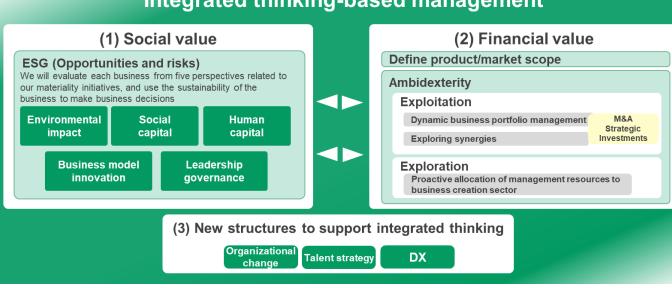
Message from the President

We are well into the final year of the 2022-2024 Medium Term Business Plan, and our Vision for 2030 remains unchanged; we have not lowered our performance goals for FY2030.

Toward realizing the Vision and goals, we will continue to pursue integrated thinking-based management in order to generate social value and financial value.

Vision for 2030 (Our Vision)

Building new businesses—and the future—with our material intelligence



Integrated thinking-based management

Performance goals for FY2030

- Net sales: ¥800 billion; Ordinary income: ¥80 billion
 - Progress of the 2022-2024 Medium Term Business Plan

Financial value improvement

Ordinary income forecast as of November 8: ¥55 billion* Due to the significant impact of the weaker yen, the Engineered Materials segment has failed to reach its 22-24 MTP performance goal.

* Performance goals for FY2024 under the 22-24 MTP Net sales: ¥725 billion; ordinary income: ¥**60** billion

Social value improvement Progressing as planned for each of the "E," "S," and "G" initiatives

Ensure that enhanced social/ environmental value will bring about enhanced financial value in the medium to long term

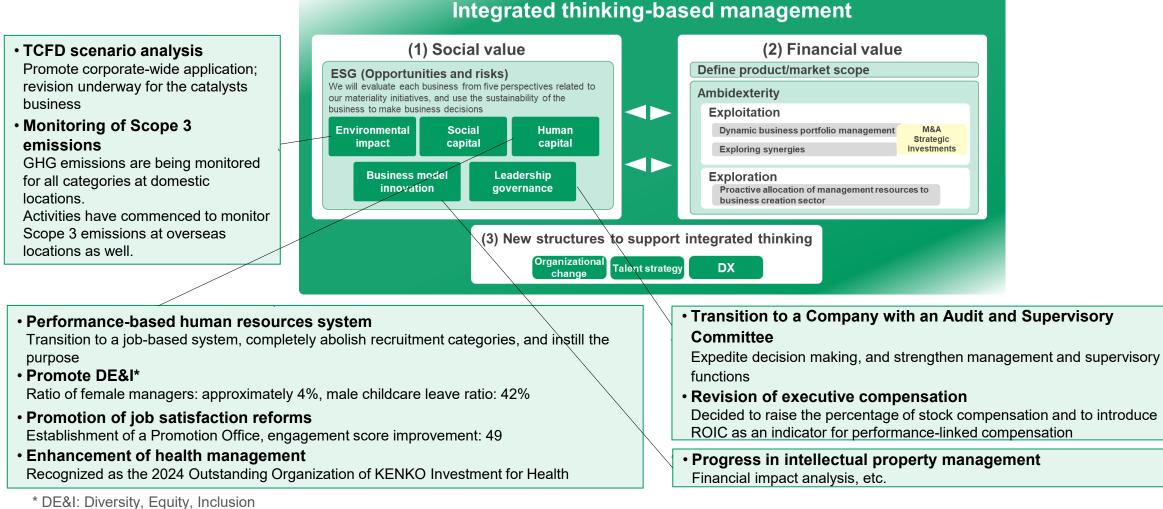


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Message from the President

The following are major initiatives implemented to enhance social value since the start of the 2022-2024 Plan. All are progressing smoothly.



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Message from the President

We promote the well-being of the world through a spirit of exploration and diverse technologies.



Effective October 1, 2025, our trade name will change (TSE timely disclosure on September 13, 2024).

Trade name change

Current trade name: Mitsui Mining & Smelting Company, Limited

New trade name: Mitsui Kinzoku Company, Limited

Background to the trade name change

- In September 2024, the Company celebrated 150 years since its founding.
- With the change in trade name to one that more clearly reflects our current business operations, our Group companies will be more closely united to sustainably enhance corporate value by implementing "integrated thinking-based management" and "ambidexterity."

* Our corporate logo will not change.



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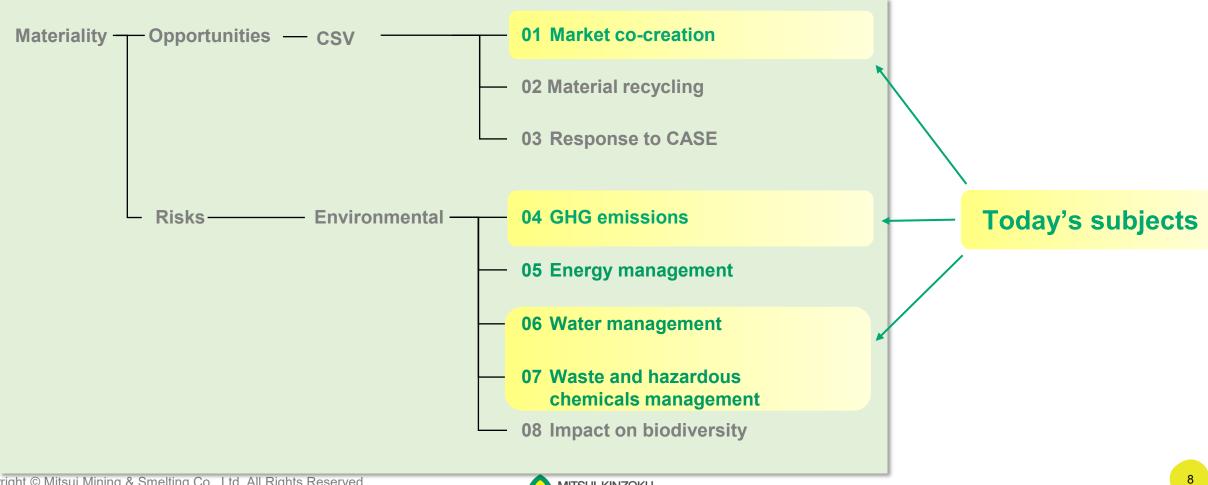


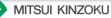


Opportunities and Risks Associated with Environmental Action

Various initiatives are underway with the aim of creating opportunities and reducing risks associated with environmental action.

We will create opportunities so as to increase financial value effectively while reducing risks to improve social/environmental value as a sustainable business.





Initiatives of the Business Creation Sector

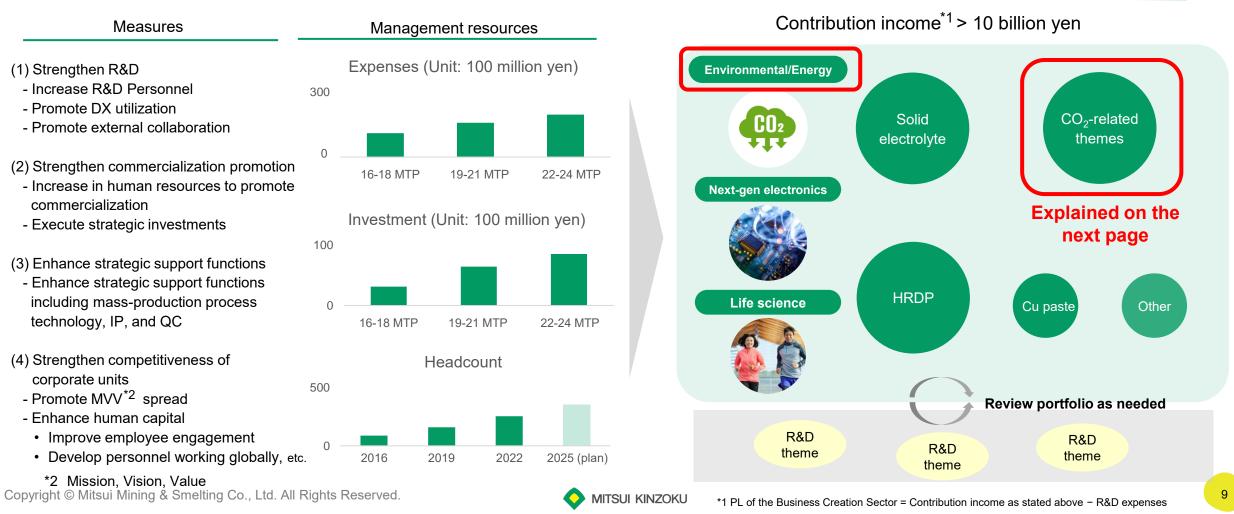
Proactively invest management resources with the goal of achieving contribution income^{*1} of 10 billion yen or more in 2030 under the theme of commercialization in order to create a business that promotes the well-being of the world.

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2030 target

through a spirit of exploration and diverse technologies.

Key measures of Business Creation Sector

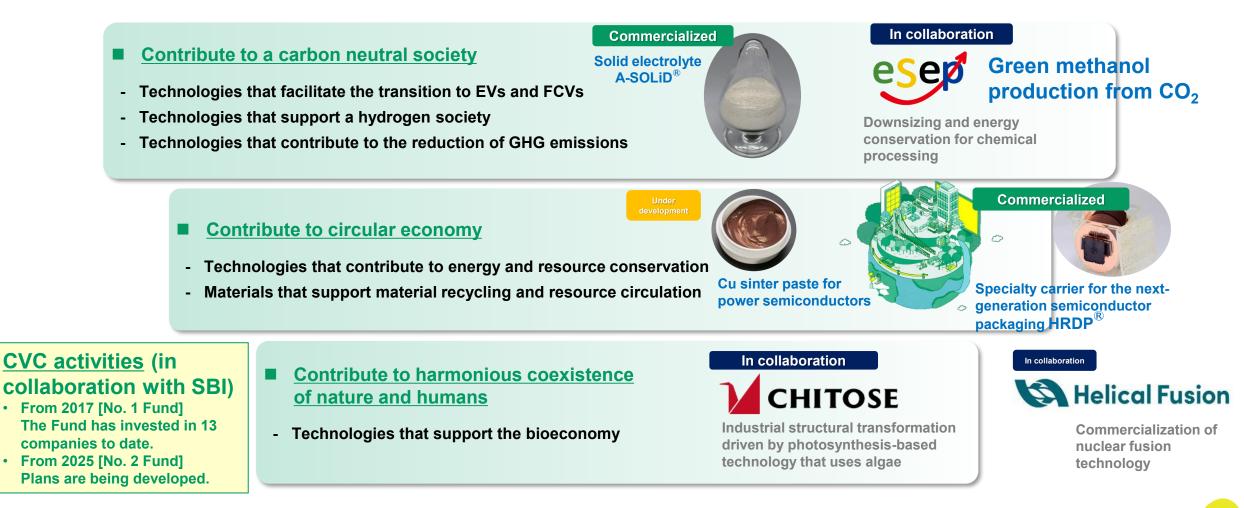


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Market Co-creation Case Studies in the Environmental/Energy Field and dive

In the environmental/energy field, we are promoting numerous themes related to the "carbon neutral society," "circular economy," and "harmonious coexistence of nature and humans."





Environmentally Friendly Products

The following four products were designated as environmentally friendly products in FY2024.

Recycled calcium fluoride (CaF2) powder



CaF2 dry powder

- Waste generated from manufacturing processes is recycled and sold as recycled calcium fluoride.
- The environmental impacts are significantly lower than those of conventional waste disposal.
- We aim to increase sales toward 2030.

Gd2O3 (gadolinium oxide) powder for GOS



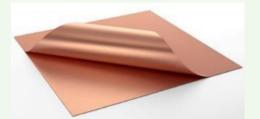
- We collect GOS* ceramic waste materials generated at customers and use them as recycled raw materials.
- The environmental impacts are significantly lower than those of conventional raw materials extracted from mines
- We aim to increase sales toward 2030.
- * GOS: Gadolinium oxysulphide

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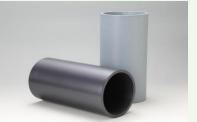
through a spirit of exploration and diverse technologies.

Gd2O3 (gadolinium oxide power)

- Use of electro-deposited copper foil and ITO target as recycled raw materials
- Recycled copper raw materials: 100%



Percentage of recycled raw materials: 80%



Mitsui Kinzoku's share of ITO target: 24%

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Mitsui Kinzoku's share of MicroThin[™]: 98%.

 There are six environmentally friendly products in total (four in FY2024 and two in FY2023).

Reference: Environmentally friendly products designated in FY2023

- MicroThin[™] carrier foil 12 µm products
- SnO2-X sputtering targets (for low-E glass)
- * Production of the recycled abrasives we presented last year has been discontinued.

We will accelerate initiatives to increase the percentage of environmental contribution products toward the Vision for 2030.

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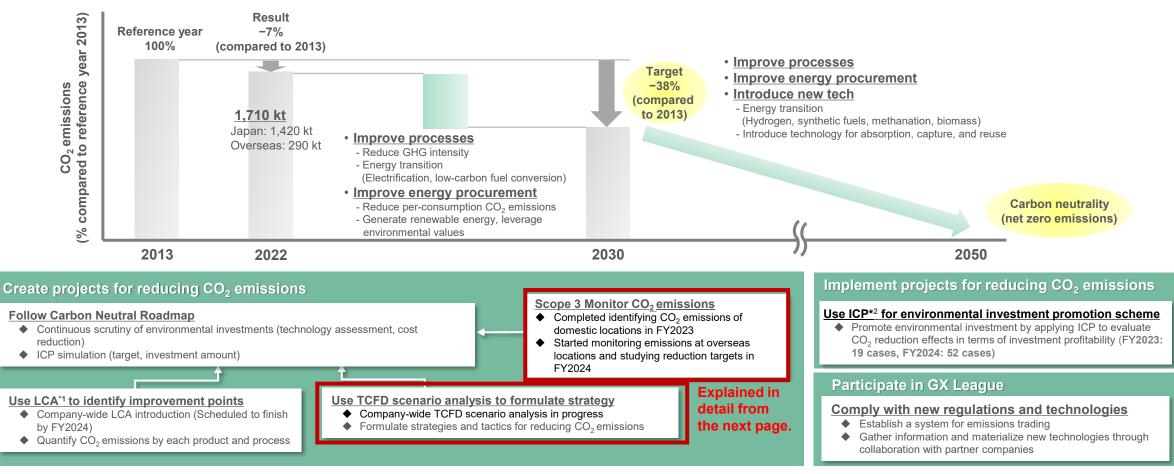


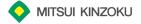
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Medium- to Long-term CO₂ Emission Reduction Targets and Initiatives

- Reduce CO₂ emissions by 38% globally by FY2030 (Scope 1, 2 compared to FY2013)
- Aim to achieve carbon neutrality (zero net emissions) by FY2050







Medium- to Long-term CO₂ Emission Reduction Targets and Initiatives

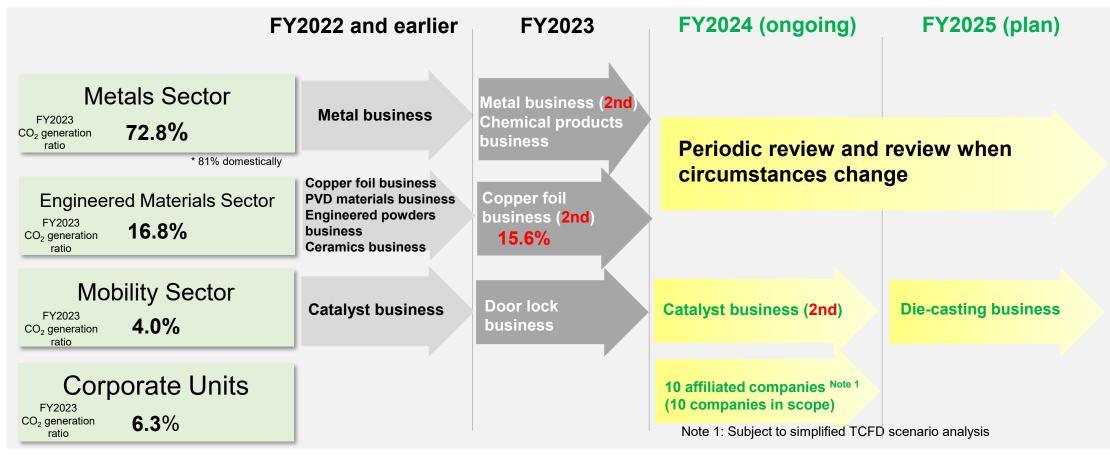




Company-wide TCFD scenario analysis introduction

Company-wide TCFD scenario analysis in progress by business from businesses highly likely to be affected by climate change.

In FY2023, we started reviews at newly established business units as well as those businesses that are highly likely to be affected by climate change. Further development and review of the Catalysts Division are in progress in FY2024.



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Medium- to Long-term CO₂ Emission Reduction Targets and Initiatives

Calculation status of Scope 3 emissions

We have calculated categories 1 through 9 and categories 13 through 15 emissions from domestic group locations for FY2021 and FY2022. From FY2024 onwards, we will calculate Scope 3 emissions for the entire Mitsui Kinzoku Group, including categories 10 through 12, to establish reduction targets.

Initiatives through FY2023 Categories		Initiatives through FY2023 Monitoring of actual emissions in FY2021 and FY2022	Initiatives in FY2024 Monitoring of actual emissions in FY2023
13 through 15New initiativesCategories 10 through 12	Domestic locations	Monitoring is complete (excluding corporate units and certain affiliated companies) Categories 1 through 9 Categories 13 through 15	Monitoring is underway for all sectors and all categories, including categories 10 through 12.
in FY2024	Overseas locations	Not monitored	Preparations for monitoring have begun. (All overseas locations) Categories 1 through 15
			Setting of reduction targets



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Metals Segment—Carbon Neutrality Initiatives

Progress in implementing CO₂ emission reduction measures using existing and new technologies is proceeding as planned. In addition to the emission reduction measures implemented through FY2023, we have added new measures, namely CO₂ emission reduction by modifying the product mix (stopping production of calcium sulfate) and utilization of environmental value, in order to increase the probability of achieving the 2030 targets.

	CO ₂ emission reduction	on measures	Evaluation	Progress
ize existing Energy sav hnologies higher efficient		Improve heat exchange efficiency, including for sulfuric acid heat exchangers	Positive	 In March 2023, we reduced heavy oil consumption by 3,300 t-CO₂/year by upgrading sulfuric acid heat exchangers at Hachinohe.
chnologies	Improve electricity intensity	Plan and implement energy conservation projects	Positive	 At the end of November 2023, we introduced inverters for sulfuric acid gas blowers at Hikoshima. We are upgrading to high-efficiency motors when replacing aged equipment at each location.
blished or ementable sures		Implement demand response using a power usage monitoring system at electrolytic plants	Positive	 We concluded a demand response agreement at Hibi, Hikoshima, and Kamioka. There were 20 responses in total at the three locations (as of September 30, 2024).
Promote uti	zation of waste heat	Collect steam from heat waste in the sulfuric acid process and slag cooling process, and use it for power generation	Negative	• This has not been implemented because investment profitability is still an issue. We are exploring a new option by expanding the scope of heat waste to low temperatures.
CO ₂ emiss mix	on reduction by modifying the product	Stop the production of calcium sulfate	Positive	• Stopping the production of calcium sulfate is planned for FY2025 at Kamioka and for FY2026 to FY2028 at Hibi to produce a CO ₂ emission reduction effect of 81,000 t-CO ₂ /year.
logies Energy sou transition	rce Utilize renewable energy	Substitute coal with biomass fuels	Positive	 Substitution tests were conducted at Kamioka and Hibi, in addition to Miike. Together with the 10% substitution at Hibi (2,800 t-CO₂/year), we are on track to achieve the target.
		New hydroelectric power plant	Positive	Feasibility studies are being conducted at Kamioka and the Mozumidani No. 2 Power Plant.
res pment n internal ternal	Utilize low emissions factor energy	Convert from heavy oil to LNG Reduce coke consumption in ISP smelting by utilizing alternative fuels (Step 1: LNG, Step 2: Use of hydrogen)	Positive	 Feasibility studies are being conducted at Takehara and Hibi for conversion from heavy oil to LNG. The safety of LNG substitution tests using actual machines has been confirmed. The possibility of reducing reoxidation of zinc by increasing the speed of cooling has been confirmed.
Carbon cap	ure Develop new technologies	CO ₂ absorption to amine-supported silica and separation under diminished pressure (Hachinohe)	Positive	 A CO₂ absorption rate of 90% was confirmed by a CO₂ absorption and recovery test conducted in April using actual exhaust gas. The second CO₂ absorption and recovery test using actual exhaust gas was conducted with an improved version during the period from October 29 to November 8. Improvement in CO₂ absorption performance per unit of raw materials was confirmed (3.5 times the last time according to preliminary figures).
Utilization o	J-Credit	Creation of credits through forest management	Positive	- $\rm CO_2$ emission reduction effect of utilizing the company-owned forest at Kamioka: 1,000 t-CO_2/year
Procureme	nt of carbon-free electricity and non-fos	sil certificates	Positive	• We purchased non-fossil certificates on a trial basis in August 2024.

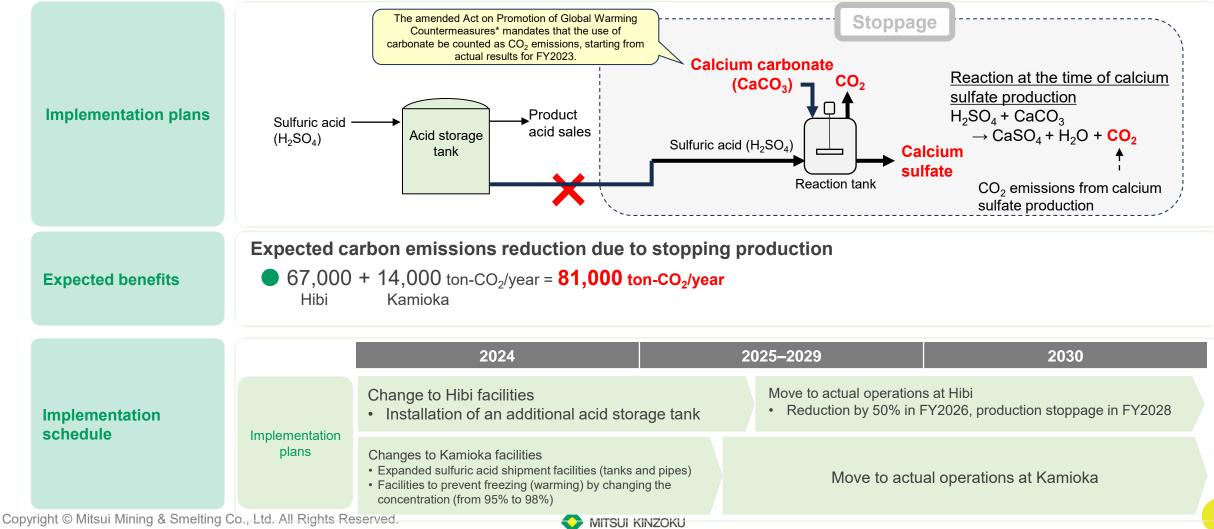
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Risks: GHG emissions

Metals Segment—CO₂ Emission Reduction due to Stopping the Production of Calcium Sulfate



In response to the amendment of the Act on Promotion of Global Warming Countermeasures, which mandates that the use of carbonate be counted as CO_2 emissions, Kamioka is scheduled to stop production of calcium sulfate in FY2025, while Hibi is scheduled to reduce such production by 50% from FY2026 and to stop such production in FY2028. Through this response, we can eliminate consumption of calcium carbonate (CaCO₃), which will lead to CO_2 emission reduction of 81,000 tons per year.





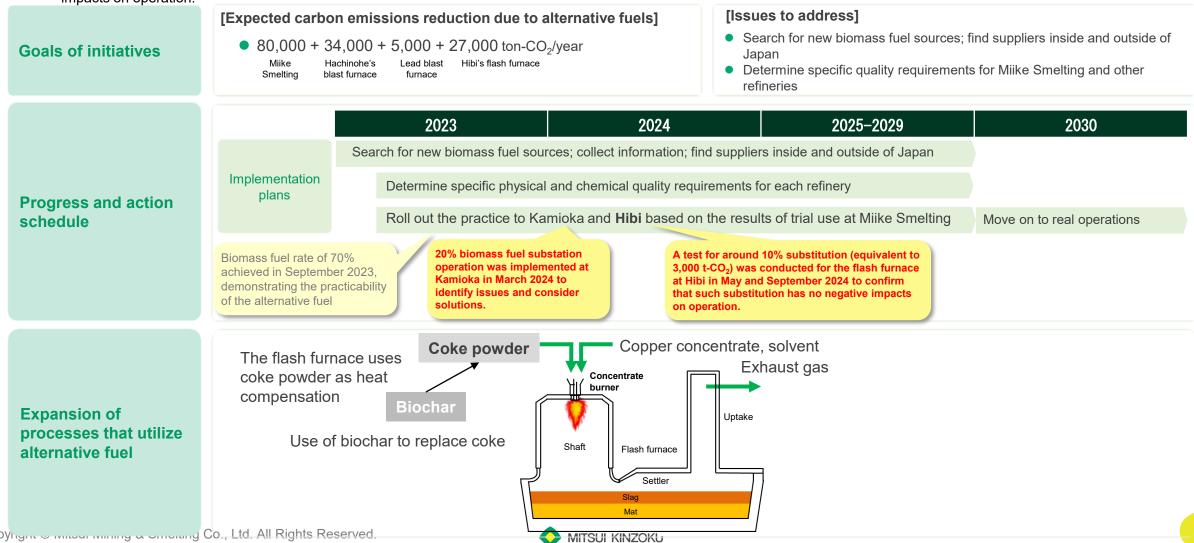
Risks: GHG emissions

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and diverse technologies. Metals Segment—Reducing Coke Consumption by Utilizing Biomass Fuel

Following Milke last year, we implemented 20% biomass fuel substation operation for lead smelting at Kamioka in March 2024 in order to identify issues and solutions. In addition, a test for around 10% substitution (equivalent to 3,000 t-CO₂) was conducted for joint smelting at Hibi from May 2024 to confirm that such substitution has no negative impacts on operation.



Risks: GHG emissions

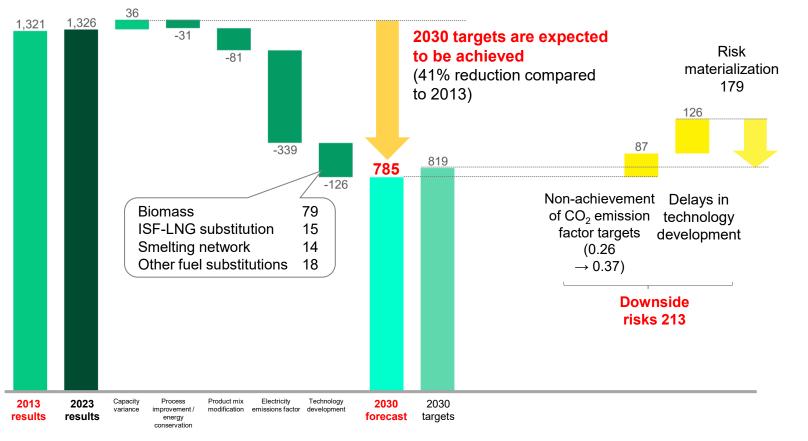
Metals Segment—Carbon Emissions Reduction: FY2023 Results and FY2030 Targets



Our carbon neutrality responses are expected to achieve our 2030 targets by reducing the CO_2 emission factor and implementing the planned response measures. If the risk of non-achievement of the CO_2 emission factor targets or delays in technology development materialize, we will achieve the targets by, for example, procurement of carbon-free electricity.

CO₂ emission reduction forecast toward the 2030 targets

(Unit: 1,000 ton-CO₂/year)



To respond to the risk of nonachievement of the CO_2 emission factor targets or delays in technology development, we will consider utilizing environmental value, such as the procurement of carbon-free electricity and the acquisition of non-fossil certificates.

We will also accelerate responses to the rising costs of CO_2 emission reduction, such as **obtaining thirdparty certification**, so that we can pass on cost increases through product pricing.

* 2030 target: 38% reduction compared to 2013

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Initiatives for Environmental Issues

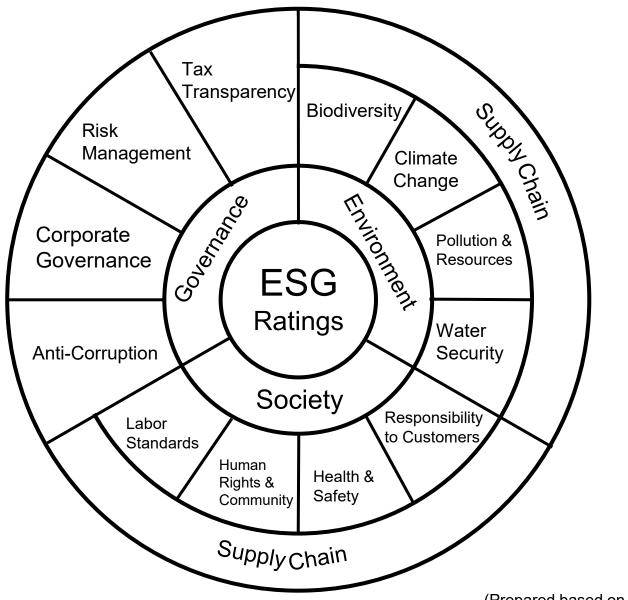
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CSR office

e-mail csr@mitsui-kinzoku.com

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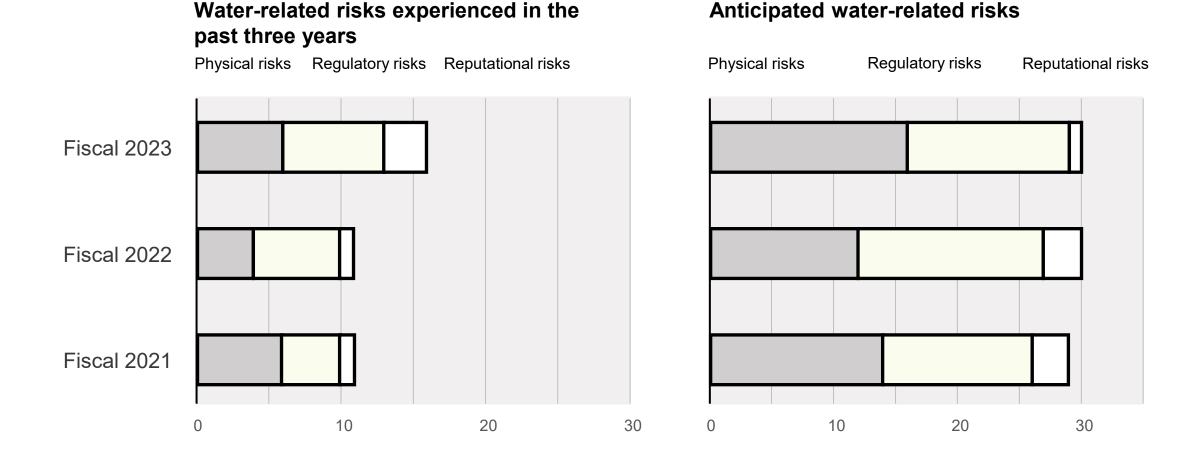




(Prepared based on FTSE disclosure information)



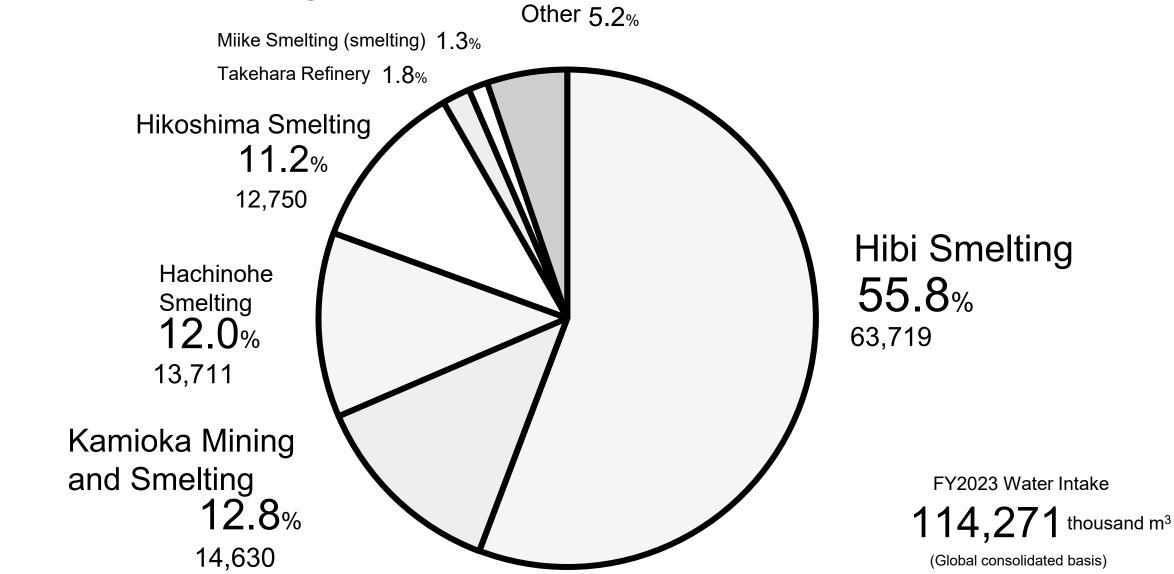
Responsible Water Management



(The number of locations that indicated there is a risk during the annual environmental management status survey of domestic and overseas locations.)

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Responsible Water Management



Tengunouchiwa Power Plant in the Kamioka Mine

在の発電

We have constructed and own multiple hydraulic power stations in the Kamioka Mine as well as the Huanzala Mine and the Pallca Mine in Peru by making the most of their geographic conditions. Tengunouchiwa Power Plant, which has been in operation since June 2014, is an underground hydraulic power station that utilizes abundant spring water and a waterfall, which is rare anywhere in the world.

Reservoir in the Miike area

We have multiple manufacturing sites in the Milke area (Omuta City, Fukuoka Prefecture), and we store the water used and treated by each location as well as rainwater in a/reservoir for reuse.

Hibi Smelting

Hibi Smelting (Tamano City, Okayama Prefecture) is our site for copper smelting. Seawater accounts for 97% of its water intake (FY2023 result), and this seawater is taken from the Seto Inland Sea, which the smelting plant faces.

Hibi Smelting

The seawater taken is used as cooling water in the sulfuric acid process. The photo shows the discharge outlet for that process.

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道路横断時 _{指差呼称} 右封>! 左封>!

R.S

Waste separation yard in the Milke area

Each manufacturing site is working to reduce the amount of waste generated from its processes by minimizing resource usage and streamlining operations. Our manufacturing sites are also working to improve the recovery rate of valuable resources, to promote the 3Rs for packaging materials, and to reduce the final disposal volume.

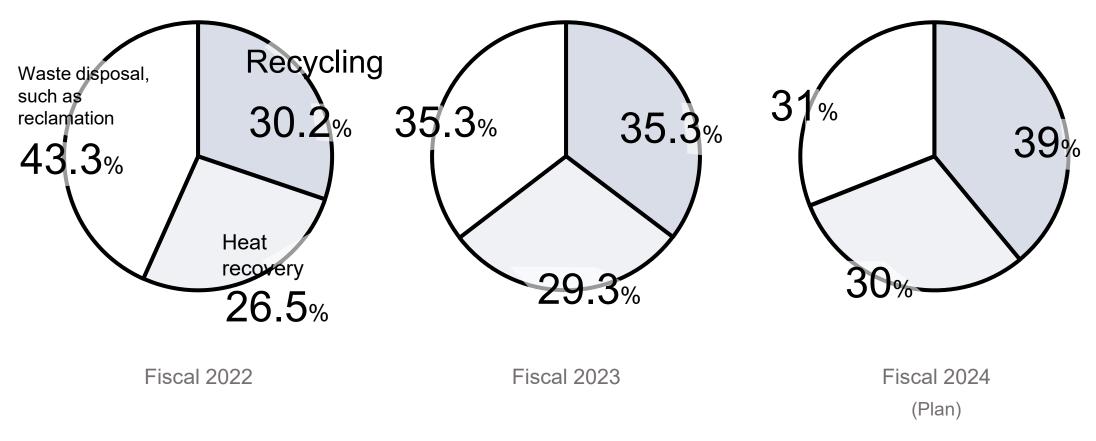
PLASTIC

METAL

Waste Reduction Initiative



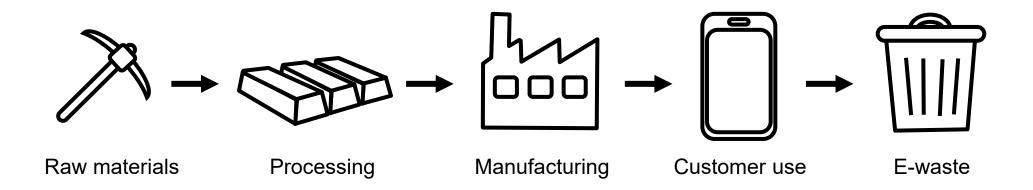
Mitsui Kinzoku Group is committed to the proper disposal of plastic waste and resource recycling. In FY2022, we set targets to reduce plastic waste emissions and to increase the recycling rate at our domestic group locations, which account for approximately 95% of the Group's total plastic waste emissions.



* The scope is Mitsui Kinzoku and its domestic consolidated subsidiaries.

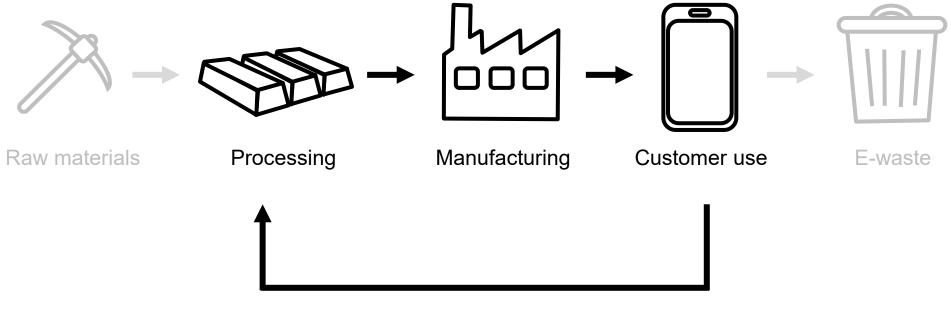


Closing the Loop in Our Supply Chain





Closing the Loop in Our Supply Chain



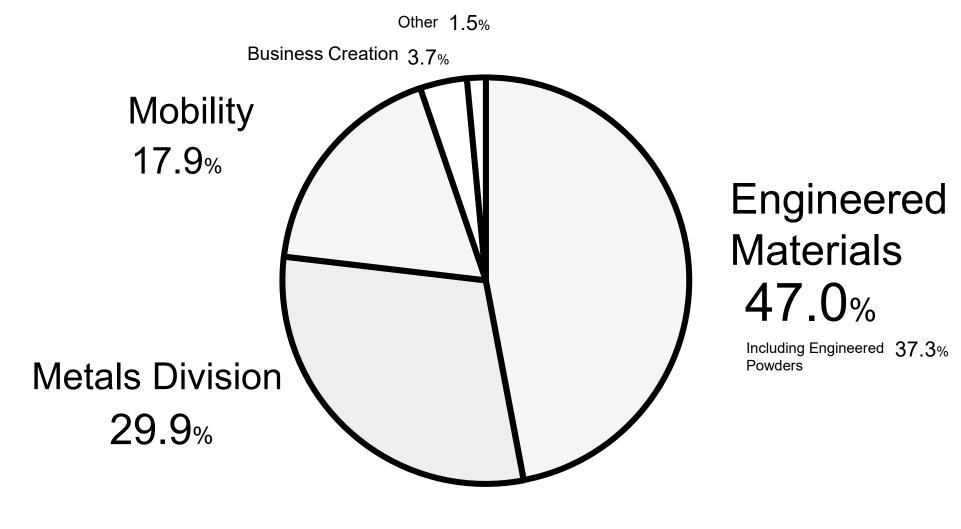
Reuse and Recycling

(Prepared based on Apple's disclosure information)



Requests from Our Corporate Customers Concerning CSR and ESG

Over the past four years, 72% of requests from our corporate customers concerned answering a questionnaire (e.g., SAQ), 13% concerned obtaining a rating from a CSR rating agency, and 2% concerned conducting business site audits.



Fiscal 2020-2023







Initiatives for Environmental Issues

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CSR office

e-mail csr@mitsui-kinzoku.com

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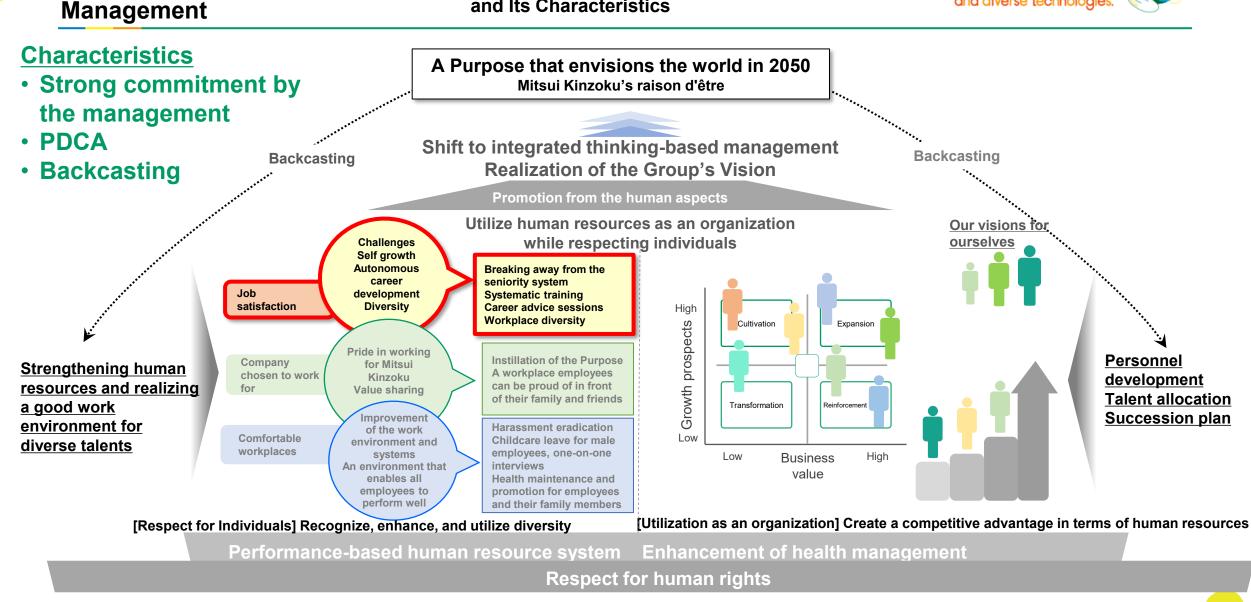


Mitsui Kinzoku's Human Capital

—Linking to the Management Strategy and Its Characteristics

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Rewarding and Engaging Work **Promoting Office**

-What We Must Achieve and What We Want to Achieve

We promote the well-being of the world through a spirit of exploration and diverse technologies.



By accelerating job satisfaction improvement through measures tailored to diverse businesses, we will enable individuals and organizations to improve their capabilities.

Mitsui Kinzoku operates diverse businesses.

We must develop measures tailored to each business.

By establishing a dedicated organization, we will realize job satisfaction, which drives our human resources, to strengthen their ability to act.

Engagement score (percentage of *iki-iki* active engagement)

 $49 \Rightarrow 70$ (2030)

What does job satisfaction mean for individuals and organizations?

Individual power

- · Can work with peace of mind due to mutual respect
- Feels pride, joy, and happiness
- Works autonomously and perceives one's own growth

Organizational power

- Demonstrates one's capabilities to the maximum extent by making the most of one's individuality
- · Takes on challenges by making the most of the organization's diversity
- Achieves cooperation across sectors





S: Human Capital

Mitsui Kinzoku's Human Capital Management

-What We Can Gain

We promote the well-being of the world through a spirit of exploration and diverse technologies.



Aim to drastically enhance corporate value through Mitsui Kinzoku's unique human capital management

- Realization of the Purpose/Group's Vision
- Innovative workplace
- Realize business strategies

All of these can only be achieved through the actions of people.

Enhance Corporate Value As job satisfaction improves, individuals and organizations grow in strength.

In other words: Realization of

- Improved ability to act
- The value of diversity
- One's potential to the maximum extent

Create a sustainable environment in which every employee believes in Mitsui Kinzoku's future and strategy, and works willingly while feeling job satisfaction.

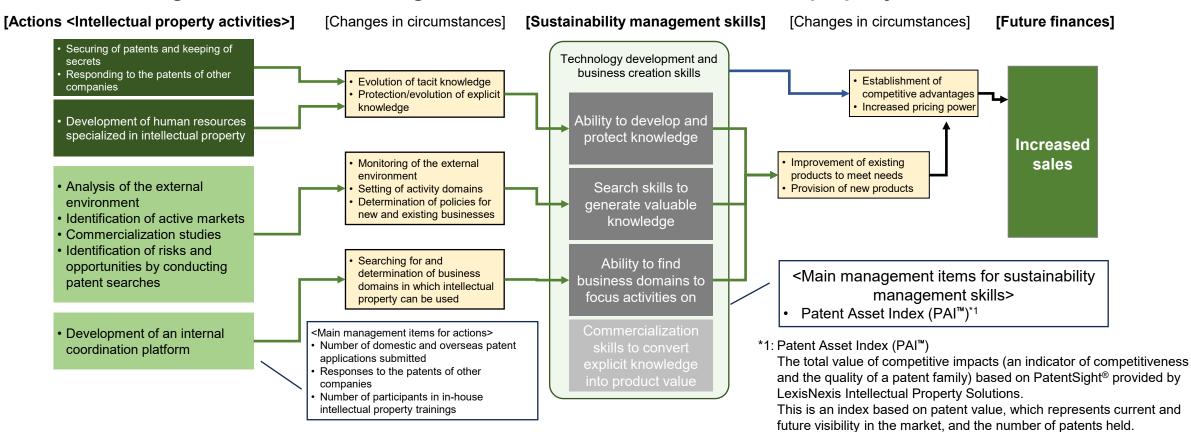


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Linkage to the Future Finances of Intellectual Property Activities

We analyzed the impacts of intellectual property activities on our future finances and have established and implemented actions and management items for sustainability management skills.



Logic that shows the linkage to the future finances of intellectual property activities

We are analyzing the impacts on future finances of not only intellectual property activities but also of other activities to enhance social value.

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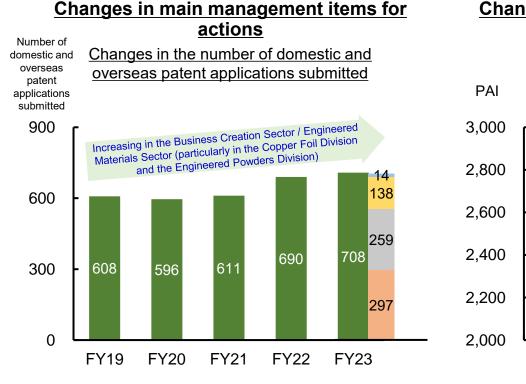
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Changes in the Values of Management Items for Actions and Sustainability Management Skills

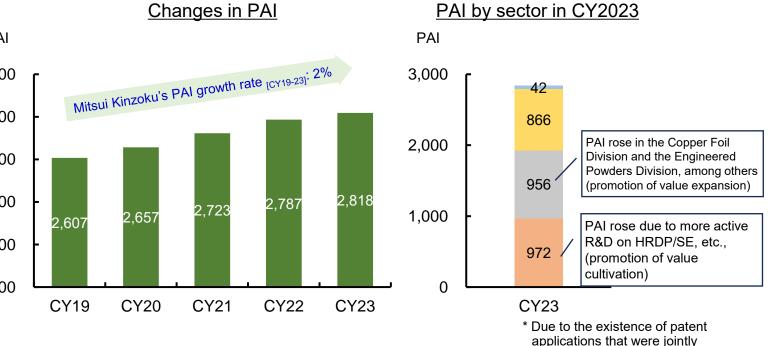


The number of domestic and overseas patent applications submitted, which is one of the management items for actions, is increasing based on, among other factors, efforts to reduce risks toward protecting existing businesses and creating new businesses.

The PAI has grown at 2% CAGR [CY2019 through 2023]. Progress has recently been made in the Business Creation Sector and the Engineered Materials Sector in developing intellectual property and intangible assets to drive medium- to long-term growth.



Changes in management items (PAI) for sustainability management skills and PAI by Sector in CY2023



Business Creation Sector
 Engineered Materials Sector
 Mobility Sector
 Metals Sector and others

submitted by multiple Sectors, the

sum of PAIs for individual Sectors differs from the PAI for Mitsui

Kinzoku as a whole.



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Mitsui Kinzoku's Corporate Governance

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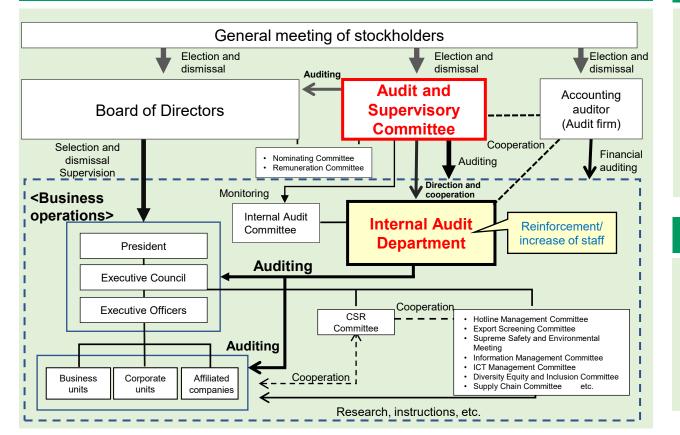
[History of	four corporate governance reform]	A : Male : Female S Chairman of the and	nbers of Aud Supervisory nmittee
FY	Specific actions	Composition of Directors	
-2014	 Established the Nomination Review Committee and the Compensation Committee (2005) Stipulated that an outside director shall serve as the chairperson of the Nomination Review Committee (2008) 	(2014) Internal: President (-2020) Outside:	
2015	Began evaluating the effectiveness of the Board of Directors	Internal:	
2016	 Stipulated that an outside director shall serve as the chairperson of the Internal Audit Committee 	Internal:	
2018	 Stipulated that an outside director shall serve as the chairperson of the Compensation Committee 	(The same as above)	
2019	Changed the term of directors from two years to one year	(The same as above)	
2020	 (Stipulated that an outside auditor shall be a member of the Nomination Review Committee and the Compensation Committee) 	Internal:	
2021	 Stipulated that the Board of Directors shall be chaired by a director who is not serving as President and Representative Director Adopted a restricted stock compensation plan for directors and executive officers Turned our listed subsidiary, Mesco, Inc., into a wholly-owned subsidiary 	Internal:	
2022	Stipulated that the Board of Directors shall be chaired by an outside director	Internal:	
2023	Adopted an ESG index-linked restricted stock compensation plan	Internal:	
2024	Transitioned from a company with a Board of Company Auditors to a company with an Audit and Supervisory Committee	Internal:	Auditor Auditor



Transition to a Company with an Audit and Supervisory Committee

Strengthen governance through transition to a company with an Audit and Supervisory Committee, increased ratio of outside directors to half, increased ratio of female executives, appointment of external financial accounting skilled personnel, appointment of Outside Director as Chairman of the Board of Directors, thereby orienting to the Board of Directors as "Small-sized general meeting of stockholders"

Corporate governance system chart



Transition objectives

- Significantly transfer power to Executive Officers and strengthen monitoring functions over management
- \rightarrow Transition to a monitoring model approach
- Concentrate on discussions to enhance corporate value, such as company-wide strategies, at the Board of Directors meetings
 - → Support for company-wide strategies from a governance perspective

Benefits of transitioning

- As half of our directors are now outside directors, discussions at Board of Directors meetings have become more intense and vigorous.
- Information sharing between the executive side and outside officer/the Internal Audit Department has become more extensive, enabling more substantive discussions.

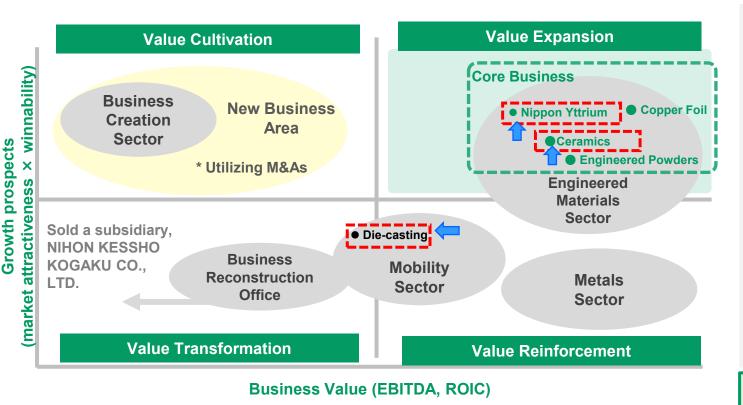




We are accelerating initiatives to enhance corporate value by implementing measures to improve financial value, such as dynamic management of our business portfolio, and by advancing ROIC-oriented management.







Enhance ROIC-oriented management

- We have made the following decision to practice management that is more conscious of capital efficiency.
 - To introduce ROIC as an indicator of efficiency as part of the performance indicators for executive directors and senior executive officers.
- We are seriously considering implementation of the following measures.
 - Calculate the WACC (Weighted Average Cost of Capital) per business and set ROIC targets (ROIC spreads) per business at appropriate levels that are above the levels of the WACC per business.
 - Introduce measures to motivate employees to work to enhance corporate value and to ensure internalization of ROIC.
 - Setting of and working according to indicators necessary for improving ROIC (e.g., ROIC trees) at each location and group company.

Operation is scheduled to start in FY2025 at which the next MTP will be started.



Executive Compensation

We promote the well-being of the world through a spirit of exploration and diverse technologies.



The percentage of stock compensation out of the total compensation of directors (excluding directors serving as an Audit & Supervisory Committee member and outside directors) was raised for the current fiscal year (from 15% to 20%).

We have established shareholding guidelines for executive officers and higher officers and have decided to introduce ROIC as an additional indicator for performance-linked compensation from FY2025.

Recent history related to executive compensation

FY	Specific actions		
2018	 Stipulated that an outside director shall serve as the chairperson of the Compensation Committee 		
2021	Adopted a restricted stock compensation plan for directors and executive officers		
2023	Adopted an ESG index-linked restricted stock compensation plan		
2024	 Established shareholding guidelines for executive officers and higher officers. 		
2025	 Introduce ROIC as an additional indicator for determining the percentage of performance-linked compensation (plan). 		

Composition of compensation by type based on consolidated ordinary income of 40 billion yen

(Before)

Base compensation	53%
Performance-linked compensation	32%
Stock compensation	15%

From FY2024

Stock compensation	20%
Performance-linked compensation	30%
Base compensation	50%

* As performance-linked compensation changes according to the Company's financial results, the composition of compensation referred to above will also fluctuate.

Aim of the FY2024 revision of the executive compensation system

- To encourage directors and other top management executives to be highly conscious of sharing value with shareholders and enhancing corporate value.
- To accelerate ROIC-oriented management by introducing ROIC as an additional indicator for performance-linked compensation.

We will continue to review and revise our executive compensation system, including the compensation composition and indicators.

Status of Cross-shareholdings

We promote the well-being of the world through a spirit of exploration and diverse technologies.



To ensure transparency in governance and to improve capital efficiency, we are in the process of reducing cross-shareholdings.



Change in the status of cross-shareholdings

TSE timely disclosure on August 8, 2024
 As notified in the Notice of Recognition of a Gain on Sale of
 Investment Securities, we sold shares of one listed company
 previously held as a cross-shareholding and recognized
 extraordinary income of 9.2 billion yen.

As a result of the aforementioned sale, the book value of our crossshareholdings is expected to become extremely small as of March 31, 2025.

 We will continue to examine whether to hold shares as crossshareholdings, and if we determine that there is no rational reason for doing so, we will sell such shares.

* The BS amount will change as a result of fair-value valuation at the end of the current period.



We promote the well-being of the world through a spirit of exploration and diverse technologies.

Appendix



Opportunities: Market co-creation

We promote the well-being of the world through a spirit of exploration and diverse technologies.



A-SOLiD[®] Solid Electrolyte for All-Solid-State Batteries

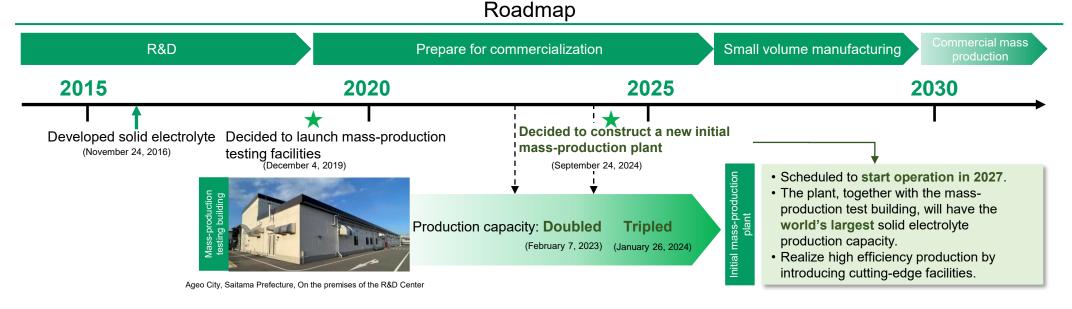
Vision for 2030 Establish a position as a leading company in solid electrolyte by contributing to realizing a decarbonized society through All-Solid State Battery (ASSB)

Progress to date

- Since the introduction of a mass-production test building in 2019, we have vigorously supported our customers' development of all-solid-state batteries by increasing our production capacity twice.
- Our solid electrolyte A-SOLiD[®] has been adopted by multiple customers both in Japan and overseas as standard materials for development.

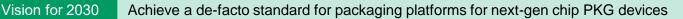
Progress in FY2024

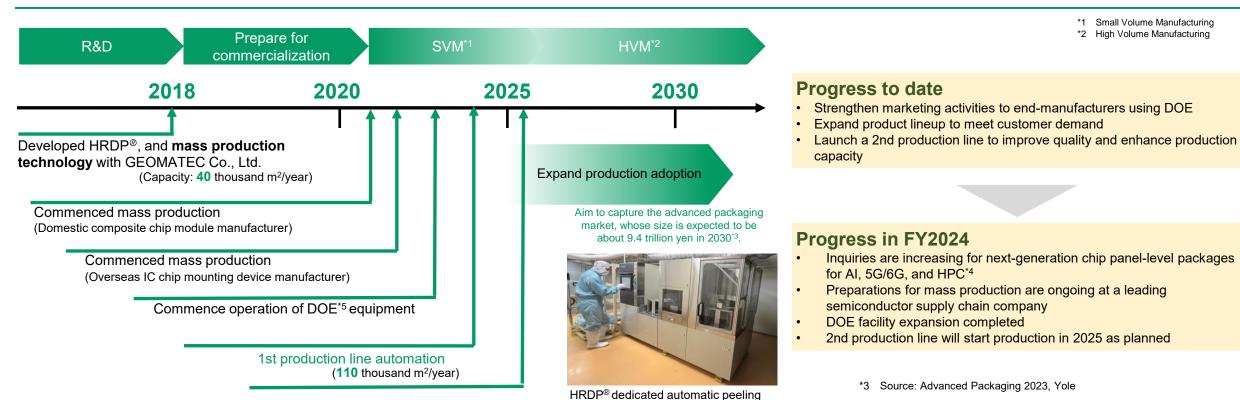
- The likelihood of adoption of our A-SOLiD[®] in an EV that uses all-solidstate batteries, which is scheduled to be launched around 2027, has increased.
- In view of this development, we have decided to build an initial massproduction plant (scheduled to start operation in 2027). We expect the plant to contribute to the social implementation of all-solid-state batteries.



Opportunities: Market co-creation

HRDP[®]: Specialty Carrier for Next Generation Semiconductor Packaging

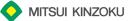




Roadmap

In the process of launching a cutting-edge 2nd production line (170 thousand m²/year) DOE facility expansion completed

- *4 High-Performance Computing
- *5 Design of Experiments (DOE): Initiatives in which we collaborate with customers to verify customer processes and to propose value for customers



device (part of DOE equipment)



Outline of the Metals Business

We promote the well-being of the world through a spirit of exploration and diverse technologies.



The Metals Business has six smelting plants in Japan (three zinc smelting sites, two lead smelting sites, and one copper smelting site) to produce zinc, lead, and copper as well as various metal by-products. In addition to high recycling rates of raw materials (in particular, 51% for zinc is world-class performance), our Metals Business boasts of the highest total production of zinc, lead, and copper in Japan. Production volume and raw material composition of our products

Domestic locations

In blue: Recycled raw materials

Kamioka Mining and Smelting Co., Ltd. Recycled metals: **Zinc, lead, bismuth, silver, and gold** Raw materials: Used batteries, zinc sulfide ore, etc.

<u>Hibi Kyodo Smelting Co., Ltd.</u> Recycled metals: **Copper, silver, and gold** Raw materials: Copper scrap, etc.

<u>Hikoshima Smelting Co., Ltd.</u> Recycled metals: **Zinc** Raw materials: Zinc sulfide ore, etc.

Miike Smelting Co., Ltd. Recycled metals: Crude zinc oxide (intermediate product) Raw materials: EAF flue dust, blast furnace flue dust, etc.

5	A.
	Hachinohe Smelting Co., Ltd. Recycled metals: Zinc and lead
	Raw materials: Crude zinc oxide, zinc slag, zinc sulfide, lead ore, etc.

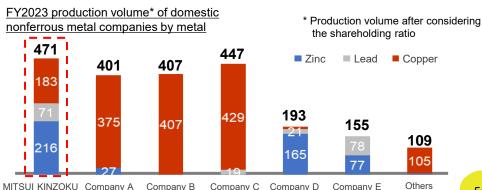
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<u>Takehara Refinery Co., Ltd.</u>		
Recycled metals: Lead, copper, tin, antimony,		
silver, and gold		
Raw materials: E-scrap, etc.		

<u>Mitsui Kushikino Mining Co., Ltd.</u> Recycled metals: **Silver, gold, and other precious metals** Raw materials: E-scrap, etc.

	Production volume	Recycling rate	Average domestic recycling rate*	Main uses
Zinc	216,000 tons	51%	21%	Plated steel sheets
Lead	71,000 tons	69%	59%	Storage batteries
Copper	282,000 tons	27%	19%	Electric wires and cables, brass bars
Tin	400 tons	100%	100%	Solder
Antimony	300 tons	_	-	Flame retardant
Bismuth	300 tons	-	_	Alloys, metallurgy additives
Silver	100 tons	-	-	Electronics components, jewelry
Gold	5 tons	_	-	Jewelry

* Average domestic recycling rate = Production volume of recycling-derived products / Total domestic production volume (Source: JOGMEC material "Mineral Resources Material Flow 2022")



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Provision of Metal Materials Essential for the Realization of Carbon Neutrality



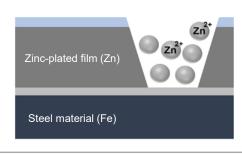
Our zinc and copper products contribute to CO₂ emission reduction, the former through their use in rust prevention for steel sheets, and the latter through their use in electric vehicles, etc. We will continue to provide metal materials essential for the realization of carbon neutrality, in addition to recycling.

Zn CO_2 emission reduction through rust prevention for steel sheets

Barrier function (protective coating function)



Sacrificial protection function

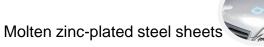


Protect steel materials by the alloy layer and oxide film.

As zinc dissolves before steel does, zinc protects steel electrochemically.

CO₂ emission reduction effects of Mitsui Kinzoku's zinc plating

Zinc's contribution to CO_2 emission reduction is expected to amount to 27,000,000 t- CO_2 /year, including the reduction contribution of Mitsui Kinzoku's zinc bullion of **12,000,000** t- CO_2 /year.



- Service life of 10 years (2.5 times that of regular steel sheets)
- CO_2 emissions from production: 2.32 t- CO_2 t/t (regular steel sheets: 2.03)
- Production volume: 10,000,000 tons/year
- Domestic production volume of zinc: 500,000
 tons/year
- Mitsui Kinzoku's production volume of zinc: 220,000 tons/year

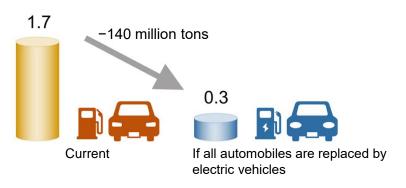
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As a result of the service life extension of steel sheets

10,000,000 tons/year × (2.03 t/t × life 2.5 times - 2.32 t/t) × (220,000 tons / 500,000 tons) = 12,120,000 t-CO₂/year



CO₂ emission reduction through electric vehicles



CO₂ emission reduction contribution volume simulation for Mitsui Kinzoku' refined copper

If all automobiles in Japan are replaced by electric vehicles by 2030, CO₂ emissions are expected to be reduced by 16,470,000 tons/year (140,000,000 tons on a cumulative basis), including the reduction contribution of Mitsui Kinzoku's refined copper of **270,000 t**-CO₂/year.



- ----- Electric vehicles ------
- CO_2 emission reduction effect: 16,470,000
- tons/year

MITSUI KINZOKU

- Weight percentage of refined copper in EVs: 8.5%
- Domestic production volume of refined copper:
- 1,350,000 tons/year
- Mitsui Kinzoku's production volume of refined
- _____copper: 295,000 tons/year_____

As a result of popularization of electric vehicles

16,470,000 tons/year × 8.5% × (295,000 tons / 1,350,000 tons) = 270,000 t-CO₂/year





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