

March 25, 2020

To All Concerned Parties

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Announcement of Medium-term Management Strategy

Mitsubishi Materials Corporation (hereinafter referred to as "MMC") has developed a new medium-term management strategy ("FY2023 Strategy") covering the period from FY2021 to FY2023.

1. Overview of the current medium-term management strategy (FY2018 to FY2020)

Based on the key strategies of "achieve growth through innovation," "create value by building a recycling-oriented society," "increase the company's market presence through investment for growth," and "increase efficiency through continuous improvement," the Mitsubishi Materials Corporation Group (hereinafter referred to as "MMC Group") has implemented various measures in the current medium-term management strategy, including new product development, M&A inside and outside of Japan, the expansion of overseas production and sales bases, and the enhancement of recycling-related facilities.

Meanwhile, consolidated operating profit, consolidated ordinary income, ROA (Ratio of Ordinary Income to Total Assets), and net D/E ratio are expected to diverge from the estimates for FY2020 in the current medium-term plan.

	Estimate for FY2020	FY2018	FY2019	FY2020
Financial indicators	in the current	Result	Result	Forecast
	medium-term plan			
Consolidated operating profit	86 to 95 billion yen	72.8 billion yen	36.8 billion yen	27 billion yen
Consolidated ordinary income	82 to 100 billion yen	79.6 billion yen	50.6 billion yen	40 billion yen
ROA	4.5~5.0%	4.1%	2.6%	2.1%
Net D / E ratio	0.7 times	0.6 times	0.6 times	0.8 times

The shortfalls in meeting our FY2020 objectives are attributed to the external factors of a slowing Chinese economy, a sluggish economic growth in the Thailand and Indonesia area, a shrinking demand for automobiles and semiconductors, and a demand decline for cement in Japan, as well as the internal factor of a delayed implementation of key strategic measures caused by "insufficient marketing activities", "insufficient gathering of customer information", and "insufficient ability to solve manufacturing problems on site", and other reasons. In the new medium-term management plan, MMC Group will address these problems by setting "strengthening marketing", "promoting digitalization", and "fortifying manufacturing excellence" as the key strategies to strengthen its management base.

2. Overview of the Medium-term Management Strategy (FY2023 Strategy)

1) Value creation process

MMC Group will utilize its strengths that include "an advanced recycling technology and business platform," "value chain from raw materials to products with a stable supply," "unique material development and manufacturing technology," and "a team that can unite to resolve issues," etc., to solve social issues, promote key group initiatives, and strengthen its core businesses, and thereby further both social and economic values.

2) Mission

Based on its corporate philosophy of "For People, Society and the Earth", MMC Group's vision is "We will become the leading business group committed to creating a sustainable society through materials innovation, with use of our unique and distinctive technologies, for People, Society and the Earth". Based on the corporate philosophy and vision, MMC Group formulated the FY2023 Strategy that sets out MMC Group's mission and medium- and long-term goals from FY 2031 to FY2051 from the perspective of creating both social and economic values.

<Mission>

(1) Contribute to build a prosperous society

We aim to contribute to build a prosperous society by providing nonferrous metal materials, predominantly copper, and high value-added functional materials and products.

(2) Contribute to build a recycling-oriented society

We aim to contribute to build a recycling-oriented society by providing recyclable products and advanced technology-based waste recycling.

(3) Contribute to build a decarbonized society

We aim to contribute to build a decarbonized society by developing and promoting the use of renewable energies such as geothermal energy, and ensuring to consider the reduction of environmental impact in manufacturing.

MMC Group will promote the group-wide policy in the FY2023 Strategy as follows.

<Group-wide Policy>

(1) Optimization of business portfolio

In regards to businesses that MMC Group should take ownership of, it will focus on businesses that are consistent with its vision and mission, are governable by MMC Group, capable of earning a leadership role in a specific region or the world, and that can deliver stable returns over capital costs on a medium- to long-term basis. MMC Group will also determine the direction of the businesses based on profitability and growth potential, in order to build a business portfolio.

(2) Comprehensive efforts to increase business competitiveness

To provide to the market, MMC Group will sophisticate its core technologies and knowledge with the support of its corporate division's strategies (manufacturing excellence strategy, quality management strategy, and digital transformation strategy). Meanwhile, MMC Group will acquire lacking or complementary businesses through M&A and business alliances to relentlessly enhance business competitiveness.

(3) Creation of new products and businesses

With the support of MMC Group's corporate division's strategy (R&D and marketing strategy), MMC Group will create new products and businesses that meet customer needs and wants.

3) Financial plan

(1) Financial indicators and targets

The FY2023 Strategy emphasizes medium- to long-term profitability and growth potential for each business, and profitability and growth potential primarily by ROIC and EBITDA growth rate, respectively. In the process-type business, ROA is used as a complement, and ROIC, ROE, and ROA are used together as corporate financial indicators. The company's financial targets for FY2023 are: ROIC 6.0%, ROA 4.0%, ROE 7.0%, a consolidated operating profit of \$58 billion, a consolidated ordinary income of \$75 billion, and a net D / E ratio of 1.0 times or less.

(2) Investment policy

For the period of the FY2023 Strategy, total investment is estimated to be \$360 billion, with a growth strategy investment of \$190 billion and a maintenance and upgrading investment of \$170 billion. Financial resources for investment will be generated by using cash flows from operations and proceeds from business restructuring and asset sales. If attractive large-scale investment projects for growth emerge, investments will be made proactively as long as there is a net D/E ratio within the range of 1.0 times or less.

(3) Shareholder return policy

In order to return profits to shareholders, MMC will determine its profit allocation based on a comprehensive assessment of concerned factors, which include earnings for the period, internal reserves, and financial standing. With regard to profit allocation during the FY2023 Strategy period, MMC will focus on providing stable dividends despite fluctuating consolidated business results, and will pay out an annual dividend of ¥80 per share from FY2021 to FY2023. In cases that the consolidated payout ratio is less than 25%, MMC will temporarily increase the dividend or conduct share buybacks.

(4) Strategic holdings

Unless required for strategic objectives, MMC will not acquire or hold shares other than purely for investment purposes.

4) Business strategy of each segment

<Advanced Products Business>

Long-term business goals	Global First Supplier	
Long-term strategy	 Create new businesses and products through the sophistication and integration of our core competencies (e.g. production and development of oxygen-free copper, oxygen-free copper base alloys, and functional materials as well as technical capabilities such as bonding different metals, etc.) Accelerate of marketing activities to replicate successful practice 	
Specific measures of the FY2023 Strategy	 Assign key account managers acting cross-sectionally Enhance information analysis by digital marketing such as the employment of AI or IoT Share product roadmaps with customers (co-creation capabilities) Develop new products through collaboration with Central Research Institute Fortify production capabilities such as establishing a mass production system and improving productivity 	
	 Pursue opportunities to execute M&A or business alliances 	

<Metalworking Solutions Business>

Long-term business goals	Top 3 supplier in strategic markets	
Long torm	Promote clean manufacturing	
Long-term	 Provide high-efficiency products with advanced technology 	
strategy	 Expand advanced metal powder business in electronic devices 	
Specific	Increase recycling rate in our tool recovery system and utilize renewable energy	
measures of	Provide high efficiency tools and digital solutions	
the FY2023	Transition to smart factory and optimization of logistics and supply chain	
Strategy	Expand advanced metal powder business to rechargeable battery market	

<Metals Business>

Long-term business goals	Leader in environmentally-friendly mining & smelting business
	Stable supply and recycling of nonferrous metal materials, predominantly copper
Long town	Creation of a sustainable raw material portfolio consisting of clean copper concentrate and E-
Long-term	Scrap
strategy	Promotion of recycling
	Response to climate change
Specific	Secure clean copper concentrate by investing in new mines
measures of	Develop impurity removal technology in copper concentrate
the FY2023	> Optimize valuable metal material flow
Strategy	Reduce fossil fuels

<Cement Business>

Long-term business goals	Leader in the domestic and international cement industry with advanced environmental technologies	
Long-term	 Stable supply of basic building materials for social infrastructure and disaster prevention infrastructure Sophistication of waste disposal 	
strategy	 Response to climate change by reducing CO₂ Construction of a resilient domestic business foundation through business restructuring and business growth in overseas markets 	
Specific measures of the FY2023 Strategy	 Improve and optimize production system through domestic business restructuring Expand capabilities in waste plastic processing and installation of chlorine dust cleaning equipment Introduce low-temperature burning technology and develop CO₂ reduction, capture, and recycling technologies Expand US business and develop new overseas bases 	

<Environment & Energy Business>

Long-term business goals	(Environmental recycling) Driving force of resource-recycling systems (Renewable energy) Leading company in geothermal development	
Long-term	Provision of a safe recycling system with thorough traceability, etc.	
strategy	Decarbonization by expanding renewable energy business	
	> Expand home appliance recycling business, advancement of automation, and improvement of	
Specific	added value of recovered products	
measures of	Demonstrate LiB recycling technology and solar panel recycling technology	
the FY2023	Secure stable plant operations in fly ash recycling business and biogasification business	
Strategy	> Complete Komatagawa new hydroelectric power plant, construction of Appi geothermal power	
	plant, and survey of new geothermal sites	

5) Corporate division's strategy

The following are the key corporate division's strategies for supporting each business segment in the FY2023 Strategy.

R&D and marketing strategy

By focusing on changes in the external environment such as megatrends, etc., MMC Group will create high value-added products and services mainly in IoT and AI, next-generation vehicles, urban mines, and clean energy and decarbonization areas to meet customer needs based on its integrated functions, material composite, infrastructure and mass production, and recycling technologies.

Manufacturing excellence strategy	By formulating and realizing the factory vision based on the business strategy, as well as enhancing the production process, and proactively utilizing external knowledge, MMC Group will raise its manufacturing capability to the next level.	
Quality management strategy	By optimizing its product/process design and equipment maintenance plan, MMC Group will implement proactive quality management to ensure that non-conforming products are not produced.	
Digital Transformation strategy	MMC Group will use Digital Transformation to strengthen our three key pillars: "Business added- value", "Business operations competitiveness", and "Management speed". In the next five years, MMC will invest approximately ¥30 billion and allocate 100 digital professionals.	

6) Governance

The following are the main measures for MMC Group's governance in the FY2023 Strategy.

	In June 2019, MMC transitioned to a company with a nomination committee, etc., and is
	working on the following measures.
	Continuous improvement of the functions of the Board of Directors
Strengthening corporate	 Formulation of basic corporate governance policy (effective April 1, 2020)
governance	> CEO appointment and dismissal, planning and execution of successor development
	plan
	Review of executive remuneration system
	Enhancement of governance of subsidiaries
	MMC Group will implement the following measures to establish a governance system in
	which communications can be carried out smoothly and autonomously between the parent
	and its subsidiaries, the head office and its respective bases, and among respective bases and
	the Group companies.
	> Evaluation of effectiveness and improvement of the board of directors of the Group
	companies
Strengthening group	> The Group companies' officer training
governance	Enhancement of governance audits
	> Prompt decision making by delegating authority and strengthening supervisory
	functions
	Promotion of business operations with an awareness of differing managements
	within R&D, manufacturing, and human resources exchange
	Accelerated strategy execution by Digital Transformation Management Office
	MMC Group will work on the following measures with the aim of securing and fostering
	adaptive human resources and forging a healthy organizational culture.
	 (Talent) Secure and develop human resources
HR strategy	> (Organizational culture) Enhance motivation and management capabilities of the
	Group companies
	> (Improvement of social value) Engage in the employment of diverse talents and
	health & productivity management
	(Business Divisions)
	Promotion of Environmental and Energy Business Division to in-house Company
	Separation of Aluminum Division from Advanced Products Company
	(Corporate Division)
Change of organizations	 Establishment of Marketing Department
	 Establishment of Corporate Communications Department
	(Group-wide organization)

1. Value creation process and company vision



Mission (Corporate Philosophy System)



Contribute to build a prosperous society by providing nonferrous metal materials,

predominantly copper, and high value-added functional materials and products.

Contribute to build a recycling-oriented society by providing recyclable products and

Contribute to build a decarbonized society by developing and promoting the use of renewable energies such as geothermal energy, and ensuring to consider the reduction of environmental impact in manufacturing.

<Group-wide Policy>

- Optimization of business portfolio
- Comprehensive efforts to increase business competitiveness
- -> Manufacturing excellence, quality management, and digital transformation strategies ♦ Creation of new products and businesses
- -> R&D and marketing strategy

2. Financial target and investment amount

The estimated financial targets and investment amounts for the implementation of all measures included in the FY2023 Strategy are as follows.

1) Financial figures (consolidated)

(Unit: billion yen)

		FY2020 Forecast	FY2023 Target
	ROIC	-	6.0%
ROA (ordi	nary income to total assets)	2.1%	4.0%
	ROE	-	7.0%
	Consolidated net sales	1,520	1,530
PL	Consolidated net sales (excluding metal)	830	650
	Consolidated ordinary income	40	75
	Total assets	1,990	2,040
BS	Net interest-bearing debt	450	510
	Shareholders' Equity	560	630
	Net D / E ratio	0.8 times	1.0 times or less
	Exchange rate	109 yen / US dollar	110 yen / US dollar
Assumptions	Exchange rate	121 yen / Euro	125 yen / Euro
Ĩ	Copper price	268 ¢ /1b	290 ¢ /1b

2) Investment amount

(Unit: billion yen)

 Cumulative investment plan from FY2021 to 2023

	Total Inve	stment 360		
Maintenance 8	& upgrading 170	Growth St	rategy 1 9	9 0
22% (Copper & copper alloy 15, Electronic materials 7	30% (Cemented carbide 28, Sintered 2	2 1%	8 % 4	4 1.5% (Affiliated 2, Aluminum9, Group-wide 4
Advanced Products	Metalworking Solutions	Metals	Cement Enviro	Others nment & energy

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Overview of Medium-term Management Strategy for FY2021-2023 With Value Creation Process

(From the year ending March 31, 2021 to the year ending March 31, 2023)

March 25, 2020



1

- I Review of Current Medium-term Management Strategy (FY2020 Strategy)
- I Overview of New Medium-term Management Strategy (FY2023 Strategy)

I Review of FY2020 Strategy : **Overview**



I Review of FY2020 Strategy : Results of Major Business Expansion and Progress of Key Strategic Measures

Segments	Executed key strategic measures	Delayed key strategic measures
Advanced Products Business	 Acquired Special Products Division of Luvata Started collaboration with Denka Co., Ltd. for ceramic insulated circuit substrates with high thermal dissipation for environmentally friendly vehicles Pursued an absorption-type merger of Mitsubishi Shindoh, a consolidated subsidiary 	 Synergies effect with Luvata (Cause of delay: ①) Enhancement of thermistor sensor for automobiles and refrigerators for market expansion (Cause of delay: ③)
Metal- working Solutions Business	 Expanded recycling capacity of tungsten by 1.5 times Established technical centers in various markets Resolved to make Mitsubishi Hitachi Tools a wholly owned subsidiary 	● Improvement of asset efficiency in manufacturing (Cause of delay: ❷)
Metals Business	 Launched an E-Scrap sampling facility in the Netherlands Acquisition of stake in the Mantoverde copper mine in Chile 	• Expansion of E-Scrap processing (Cause of delay: •)
Cement Business	 Expanded waste plastic process capacity of Kyushu Plant by 1.7 times Expanded into Northern California area Signed a Letter of Intent with Ube Industries, Ltd. regarding integration of cement business, etc. 	 Development of new overseas bases Improvement of the cement manufacturing technology in Japan and the US (Cause of delay: (Cause of delay: •)
Environ- ment and Energy Business	 Started joint development of recycling technology for lithium-ion battery Established a food waste biogas business company Started operations of Wasabizawa Geothermal Power Plant and construction of Appi Geothermal Power Plant 	● Incineration fly ash cleaning plant for cement recycling (Cause of delay:
Group wide	 Sold all shares in Mitsubishi Materials Real Estate Corporation Invested in Incubation Alliance Inc., which develops and manufactures Graphene Established New Business Development & Promotion Division and EV Material Development & Recycling Business Promotion Department Established MMC Innovation Investment Business Limited Liability Partnership Established Smart Factory Promotion Center 	

Cause of delay 1 Insufficient marketing activities 2 Insufficient gathering of customer information 3 Insufficient ability to solve manufacturing problems on site etc.

Countermeasures

- Strengthen marketing
- Promote digitalization
- Fortify manufacturing excellence

I Review of FY2020 Strategy : Consolidated Performance

(Unit: billion yen)

		FY2018 Result	FY2019 Result	FY2020 Forecast (%1)	Estimated FY2020 (%2)
	Consolidated net sales	1,599.5	1,692.9	1,520.0	1,620.0-1,840.0
P/L	Consolidated net sales (excluding metal)	831.1	860.7	830.0	870.0-900.0
P/L	Consolidated operating profit	72.8	36.8	27.0	86.0-95.0
	Consolidated ordinary income	79.6	50.6	40.0	82.0-100.0
ROA (ordinary income to total assets) (%)		4.1	2.6	2.1	4.5-5.0
ROE (%)		5.1	0.2	-	7.0-8.0
Net D/E ratio (times)		0.6	0.6	0.8	0.7
suc	Exchange rate (yen/\$)	111	111	109	100-120
Assumptions	Exchange rate (yen/€)	130	128	121	120
Assı	Copper price (¢/lb)	292	288	268	250-270

%1 Announced on February 12, 2020

%2 Estimated value at the time of publishing FY2020 Strategy

II Overview of FY2023 Strategy

1) Value Creation Process

- 2) Mission (Corporate Philosophy System)
- 3) Financial Plan
- 4) Business Strategy
- 5) Corporate Division's Strategy
- 6) Governance

Value Creation Process

Vision Social issues to be We will become the leading business Materiality group committed to creating a solved and SDGs sustainable society through materials innovation, with use of our unique and distinctive technologies. Advancing mobility Stable supply of for People, Society and the Earth [Group-wide Policy] Advancement and product/material diversification of Mission Optimization of business portfolio digital devices Creation of a Comprehensive efforts to increase business Create both social and Automation of recycling-oriented economic values competitiveness Products & Value production and society Proposition Services Creation of new products and businesses business processes Our strenaths Long-term business goals Longer lifespans of **High-function** Dealing with Convenience & (advantage) Contribute to products for people and climate change comfort automobiles and build a buildings Advanced Long-term strategy electronics prosperous recycling technology Safety & Effective measures and business platform society Environment security Processed against disasters protection products and Product Advanced Business Advanced Products technologies Efficient treatment services for productivity of urban waste Metalworking Value chain from raw Solutions Business improvement and Workplace Efficient use of environmental materials to products Contribute to safety and Conservation mineral resources protection with a stable supply ecycline hygiene Product-type Business of resources build and alternative MMC Group's Nonferrous metals a recyclingsubstances products made with Business Waste Process-type Business oriented society smelting process Materia Efficient use of recycling Governance **Unique** material with a low Retals Business energy resources environmental load development _____ Cement Business Development of and manufacturing renewable and technology Environment & Base material for Development Energy Business unutilized energies Contribute to construction of diverse Greenhouse build a talents CO2 emissions gas reduction decarbonized reduction **Recycling system** A team that can FY2023 Strategy society Responsibility unite to resolve **Business Strategies** in value chain issues Renewable energy Corporate Strategies^{*1} Stakeholder communication Governance^{*2} (%1) Digital Transformation strategy, Manufacturing excellence strategy, Quality management strategy, Digital R&D and marketing strategy, and Human resources strategy transformation ((%2) Strengthening of corporate governance and group governance 2030~2050 Social issues and MMC Group's Business Output Outcome Mission Materiality

Corporate Philosophy

For People, Society

II Overview of FY2023 Strategy

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Mission (Corporate Philosophy System)



management strategy

For People, Society and the Earth

We will become the leading business group committed to creating a sustainable society through materials innovation, with use of our unique and distinctive technologies, for People, Society and the Earth

Create both social and economic values

Contribute to build a prosperous society by providing nonferrous metal materials, predominantly copper, and high value-added functional materials and products.

Contribute to build a recycling-oriented society by providing recyclable products and advanced technology-based waste recycling.

Contribute to build a decarbonized society by developing and promoting the use of renewable energies such as geothermal energy, and ensuring to consider the reduction of environmental impact in manufacturing.



<Group-wide Policy>

- Optimization of business portfolio
- ♦ Comprehensive efforts to increase business competitiveness
 - -> Manufacturing excellence, quality management, and digital transformation strategies
- Creation of new products and businesses
 - -> R&D and marketing strategy

Optimization of business portfolio

Portfolio matrix



[Characteristics of businesses that the

II Overview of FY2023 Strategy

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Financial Plan : Financial Goals

(Unit: billion yen)

		FY2020 Forecast (※1)	FY2023 Target (※ 2)	Change rate	Remarks
ROIC (%)		-	6.0		
ROA(Ordinary income to total assets)(%)		2.1	4.0	+1.9points 🖊	
ROE ((%)	-	7.0		
	Consolidated net sales	1,520.0	1,530.0	+1% 🖊	[Ordinary income fluctuation factors]
P/L	Consolidated net sales (excluding metal)	830.0	650.0	-22% ┪	Market conditions 23.5
172	Consolidated operating profit	27.0	58.0	+115% 🖊	Performance of investment 17.0 Metal prices 3.5
	Consolidated ordinary income	40.0	75.0	+88% 🖊	Exchange rate 1.5
	Total assets	1,990.0	2,040.0	+3% 🖊	Impact of the change in accounting treatment of cement
B/S	Net interest-bearing debt	450.0	510.0	+13% 🖊	business becoming a minority share holding -9.0
	Shareholders' equity	560.0	630.0	+13% 🦊	Others -1.5 Total 35.0
Net D/E ratio (times)		0.8	1.0 times or less		
suo	Exchange rate (yen/\$)	109	110		(Sensitivity) ◆1 yen increase in USD/JPY
Assumptions	Exchange rate (yen/€)	121	125		exchange rate: +0.8 billion yen
Assi	Copper price (¢/lb)	268	290		 ◆10¢/lb increase in copper price (LME) : +1.7 billion yen (Ordinary income)

%1 Announced on February 12, 2020

%2 Assuming transition to equity method in cement business

Financial Plan : Financial Indicators

- Focus on medium- to long-term profitability and growth potential
- Profitability is measured by ROIC and growth potential by EBITDA, etc., for each business
- Complementary use of ROA in process-type businesses
- ROIC/ROE/ROA are used together as group-wide financial indicators

	FY2017-2019 Average	End of FY2023 Target	
	ROIC	4.2%	6.0%
The whole MMC group	ROA	3.4%	4.0%
	ROE	3.4%	7.0%

<Main Businesses>

			FY2017-2019 Average	End of FY2023 Target	By business division KGI	2016-2018 Average	End of FY2023 Target	
Advanced Products	Copper & copper alloy ^{**1}		6.4%	4.0%	EBITDA	15.7 billion yen	20.0 billion yen	
	Electronic materials		5.3%	6.0%	EBITDA	5.7 billion yen	16.0 billion yen	(E
Metalworking Solutions Business	Cemented carbide	ROIC	7.9%	7.0%	EBITDA	28.5 billion yen	39.0 billion yen	
Metals Business		Roic	19.4%	10.5%	ROA ^{*2}	7.8%	6.5%	
Cement Busi	ness		4.8%	6.0%	ROA	5.4%	6.0%	
Environment & Energy	Environmental recycling		1.1%	4.0%	ROA	3.3%	6.0%	
Business*3	Renewable energy		2.7%	4.0%	ROA	4.8%	5.5%	

ROIC = NOPAT/ invested capital

NOPAT : (Profit before tax + interest on funds) x (1-effective tax rate)

Profit before tax includes share of profit/loss of investments accounted for using equity method and dividend income

Invested capital : Excludes amount equivalent to inventories that are risk-free because of price hedging %1 Plans to invest approx. 30 billion yen starting from FY2021. Investment achievements will appear during next

- medium-term management plan period.
- %2 Calculated by excluding the price of bullion

※3 Due to the launch timing of equipment under construction, the ROICs of Environmental Recycling Business and Renewable Energy Business are expected to exceed WACC in FY2024 and FY2027, respectively. Changes in ROIC of main businesses in FY2023 Strategy

(FY2017-2019 Average)



Financial Plan : Resource Allocation (Investment Policy, Shareholder Return Policy, Strategic Holdings)

Investment Policy

Make investments using cash flows from operations, and proceeds from business restructuring and asset sales

• If there are other attractive large-scale investment projects for growth, investments will be made proactively as long as a net D/E ratio of 1.0 times or less is maintained

Cumulative cash flows from FY2021 to 2023

(Unit: billion yen)



II Overview of FY2023 Strategy

- 1) Value Creation Process
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- 3) Financial Plan
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- 5) Corporate Division's Strategy
- 6) Governance

Business Strategy : Long-term Business Goals / Long-term Strategy and ESG/SDGs

			ES	ESG/SDGs		Mission			
	Long-term business goals	Long-term strategy	E (Environ ment)	ES	S (Society)	Contribute to build a prosperous society	Contribute to build a recycling-oriented society	Contribute to build a decarbonized society	
Advanced Products Business	Global First Supplier	 Create new businesses and products through the sophistication and integration of our core competencies (e.g. production and development of oxygen-free copper, oxygen-free copper base alloys, and functional materials as well as technical capabilities such as bonding different metals, etc.) Accelerate marketing activities to replicate successful practice 	7 mm 2000 13 mm 2000	9 mini ana Secondaria 12 mini ana Mini		 Advance and diversifying mobility and digital devices Automate production and business processes 	 Develop and use materials with low environmental impact Efficiently use mineral resources and alternative resources 	 Efficiently use energy resources Reduce CO₂ emissions Develop and supply products that contribute to decarbonization 	
Metalworking Solutions Business	Top 3 supplier in strategic markets	 Promote clean manufacturing Provide high-efficiency products with advanced technology Expand advanced metal powder business in electronic devices 	7 content Sector 13 cmt Sector	9 mm mar 2 mm 12 mm		Provide high-efficiency products and digital solutions	Promote the use of recycled cemented carbide materials	Promote manufacturing renewable energy Expand electrification business by advanced metal powder technology	
Metals Business	Leader in environmentally- friendly mining & smelting business	Stable supply and recycling of nonferrous metal materials, predominantly copper • Creation of a sustainable raw material portfolio consisting of clean copper concentrate and E-Scrap • Promotion of recycling • Response to climate change	7 ***** * 13 ## *	9 Maintenne 22 Maintenne 12 Maintenne 12 Maintenne 12 Maintenne 13 Maintenne 14 Maintenne 15 Maintenne 15 Maintenne 16 Maintenne 17 Maintenne 18		 Provide copper-based materials for advanced products 	Provide recyclable products Recycle waste	Promote the development and use of CO ₂ reduction technologies Achieve manufacturing that considers environmental load	
Cement Business	Leader in the domestic and international cement industry with advanced environmental technologies	 Stable supply of basic building materials for social infrastructure and disaster prevention infrastructure Sophistication of waste disposal Response to climate change by reducing CO₂ Construction of a resilient domestic business foundation through business restructuring and business growth in overseas markets 	13 see	9 mm mm 12 mm		 Create a safe, secure, and functional city 	Recycle waste Promote sustainable resource recycling	 Reduce CO₂ emissions by improving manufacturing processes 	
Environment and energy Business	(Environmental recycling) Driving force of resource- recycling systems (Renewable energy) Leading company in geothermal development	 Provision of a safe recycling system with thorough traceability, etc. Decarbonization by expanding renewable energy business 	7 	9 mini man 9 mini man 12 mini 12 min		Ensure a stable supply of clean energy and recycled products	 Solve urban waste problems Build a sustainable social system 	Provide renewable energy	

Business Strategy : Business Strategy for Solving Social Issues



%1…Next-generation automobile, semiconductor / electronics, industrial machinery / infrastructure %2…Li-ion battery recycling %3… Solar panel recycling

Business Strategy : Contribution Goals for a Sustainable Society





Global First Supplier

Long-term Strategy

Long-term business goals

• Create new businesses and products through the sophistication and integration of our core competencies

(e.g. production and development of oxygen-free copper, oxygen-free copper base alloys, and functional materials as well as technical capabilities such as bonding different metals, etc.)

• Accelerate marketing activities to replicate successful practice

Specific Measures of the FY2023 Strategy

- Assign key account managers acting cross-sectionally
- Enhance information analysis by digital marketing such as the employment of AI or IoT
- Share product roadmaps with customers (co-creation capabilities)
- Develop new products through collaboration with Central Research Institute
- Fortify production capabilities such as establishing a mass production system and improving productivity
- Pursue opportunities to execute M&A or business alliances

Projected Achievements at the End of FY2023

In our main business fields[∗], we will have:

- •Earned customers' trust
- •Released new products by integrating our technical capabilities
- •Generated new applications of our products



Key

Large-scale investment in core business (copper & copper alloy) measures Collaboration among global footprint (incl. manufacturing, selling and developing bases)

	Expand copper alloy sales	 Seamless value chain by integrating Mitsubishi Shindoh Agile investment with direct market information
Key strategies for copper &	Execute large-scale investments	 Expanding rolling business Restructuring of extrusion business (About 30 billion yen capital investments from FY2021 to 2027)
copper alloy business	Accelerate global & downstream business	 Strengthening and optimizing value chain Enhancing cooperation with the Luvata Group
	Enhance marketing & technical development function	 Development of new users Advancing new product developments by identifying next-generation market needs

Acting promptly to market needs (Next-generation vehicles, AI/IoT, environmental load reduction, etc.)



Long-term business goals

Top 3 supplier in strategic markets

Long-term Strategy

- Promote clean manufacturing
- Provide high-efficiency products with advanced technology
- Expand advanced metal powder business in electronic devices

Specific Measures of the FY2023 Strategy

- Increase recycling rate in our tool recovery system and utilize renewable energy
- Provide high efficiency tools and digital solutions
- Transition to smart factory and optimization of logistics and supply chain
- Expand advanced metal powder business to rechargeable battery market

Projected Achievement at the End of FY2023

• Establishment of a competitive global business base capable of expanding in strategic markets using digital technologies

Business Strategy : Metalworking Solutions Business-2



• Expansion of the utilization of new technologies and services that can solve Key customer issues measures Enhancement of the global supply system and functions **Expansion in strategic market** Automotive, aerospace, and medical industries Reinforce marketing functions focused on • Use digital technologies for technical target customers assessments and simulations • Expand manufacturing and sales capability Expand advanced metal powder business through M&A or other measures for the battery market Strategic investment in markets with high growth potential Build a competitive global business foundation Develop a global recycling system of the Optimize global logistics and supply chain in response to market fluctuations used cemented carbide tools • Establish manufacturing BCP to maintain • Use digital technologies to achieve high stable supplies quality and efficient manufacturing Encourage global collaboration of technical processes center functions -05-2

Global Technical Support N



Long-term business goals

Leader in environmentally-friendly mining & smelting business

Long-term Strategy

Stable supply and recycling of nonferrous metal materials, predominantly copper

- •Creation of a sustainable raw material portfolio consisting of clean copper concentrate and E-Scrap
- •Promotion of recycling
- Response to climate change

Specific Measures of the FY2023 Strategy

- Secure clean copper concentrate by investing in new mines
- Develop impurity removal technology in copper concentrate
- Optimize valuable metal material flow
- Reduce fossil fuels

Projected Achievement at the End of FY2023

- Optimization of valuable metal material flow derived from E-Scrap
- Reduction of smelter CO₂ emissions by 5%



Key measures

Stable procurement of raw materials and optimization of smelting process

Stable supply of materials

Secure clean copper concentrate by investing in new mines

- Acquisition of stake in the Mantoverde copper mine
- Implementation of Zafranal project



Expand opportunities to participate in blue-chip projects

- Invest from the early stages of projects
- Organize consortium

Develop impurity removal technology in copper concentrate

- Establish Mining & Metallurgy Laboratories (expansion of resource technology development), and conduct joint research with a third party
- Develop/train resource engineers

Promotion of recycling

Optimize material flow

- Material grid
- Optimize material flow connecting each smelter and enhance the recovery of valuable metals at each smelter →Efficient recycling of Cu, precious metals and trace components in E-Scrap
- Improve the yield of Au and Ag by enhancing the precious metal factory process
- •Understand E-Scrap input amount constraint and optimize processing process



Improve the ratio of stable raw-material procurement

Amount of copper contained with copper concentrate under off-take* or long-term contract, and E-Scrap Amount of total copper production %Off-take: long-term takeover rights linked to mine investment interests

Response to climate change

Demonstrate the superiority of the Mitsubishi process

Utilize the environment-friendly Mitsubishi Process



Reduce fossil fuels

- Replace fuel with recycled oil, etc.
- •Substitute fuel using E-Scrap

Improve energy conversion efficiency

- Improve heat transfer efficiency of boiler
- •Improve power generation efficiency

Improve energy use efficiency

- Efficiently use steam
- Improve electrolysis current efficiency

Use renewable energy



Long-term business goals

Leader in the domestic and international cement industry with advanced environmental technologies

Long-term Strategy

- •Stable supply of basic building materials for social infrastructure and disaster prevention infrastructure
- Sophistication of waste disposal
- •Response to climate change by reducing CO₂
- •Construction of a resilient domestic business foundation through business restructuring and business growth in overseas markets

Specific Measures of the FY2023 Strategy

- Improve and optimize production system through domestic business restructuring
- Expand capabilities in waste plastic processing and installation of chlorine dust cleaning equipment
- Introduce low-temperature burning technology and develop CO₂ reduction, capture, and recycling technologies
- Expand US business and develop new overseas bases

Projected Achievement at the End of FY2023

- Domestic business restructuring
- Optimized production systems and promotion of overall business efficiency



Key measures

Reorganization of domestic business and development of new overseas bases

Reorganize the domestic business, optimize the production system, and establish a stable profit base through economies of scale in order to respond to the demand decrease for cement in Japan

Secure domestic advantage and grow overseas markets through the expansion of US and overseas businesses

Domestic

Create rationalization effects by consolidating factories, logistics facilities, sales functions, etc.

- Domestic business restructuring
- Production system optimization
- Strengthening of Kyushu Plant
- Downstream business enhancement and optimization

Benefits obtained by conducting cement business independently are limited, and therefore should pursue the merits and synergies of business consolidation Environmental business expansion, development in new technology, commercialization, etc.

Expansion of recycling business

• Development and commercialization of new technology to reduce, capture, and recycle CO₂ emissions

Improve the ratio of alternative thermal energy by focusing on thermal energy waste treatment with room for expansion

Overseas

Expand business base in overseas where population growth is expected

- Expansion of US business
- Development of new overseas bases



(Targets advanced and/or equivalent countries that can be developed for vertical integration, e.g. Australia)



(Environmental recycling) Driving force of resource-recycling systems (Renewable energy) Leading company in geothermal development

Long-term Strategy

- •Provision of a safe recycling system with thorough traceability, etc.
- Decarbonization by expanding renewable energy business

Specific Measures of the FY2023 Strategy

- Expand home appliance recycling business, advancement of automation, and improvement of added value of recovered products
- Demonstrate LiB recycling technology and solar panel recycling technology
- Secure stable plant operations in fly ash recycling business and biogasification business
- Complete Komatagawa new hydroelectric power plant, construction of Appi geothermal power plant, and survey of new geothermal sites

Projected Achievement at the End of FY2023

- Establishment of a stable business base for the environmental recycling business
- Expansion and stable operations of renewable energy plants and search for new geothermal sites

Business Strategy : Environment and Energy Business-2



Renewable energy initiatives

resources we have cultivated, we

Based on the management

Key measures

Enhanced competitiveness and expansion of environmental recycling businesses
Completion of Komatagawa new hydroelectric power plant, construction of Appi geothermal power plant, and survey of new geothermal sites

Environmental recycling initiatives

By making the most of the characteristics and functions of the materials company, we will contribute to the construction of a recycling-oriented society by developing and expanding the recycling business that does not rely on final disposal sites and can be trusted by stakeholders.



II Overview of FY2023 Strategy

- 1) Value Creation Process
- 2) Mission (Corporate Philosophy System)
- 3) Financial Plan
- 4) Business Strategy
- 5) Corporate Division's Strategy
- 6) Governance

Corporate Division's Strategy : R&D and Marketing Strategy



Electronics Automobile Energy Environment

Corporate Division's Strategy : Manufacturing Excellence Strategy/Quality Management Strategy/Digital Transformation Strategy



Digital Transformation (DX) strategy

• Use Digital Transformation to strengthen three key pillars: (1) Business added-value (2) Business operations competitiveness (3) Management speed



II Overview of FY2023 Strategy

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Governance : Strengthening Corporate Governance

◆ Changed to a company with a Nomination Committee in June 2019 Purpose: Accelerate decision-making by delegating authority, strengthen the Board of Directors' management supervisory functions, and improve the management transparency and fairness

Continuous improvement of the functions of the Board of Directors

- Continuous improvement of the monitoring functions performed by the Board of Directors
- Ensure diversity of director composition

Formulation of basic corporate governance policy (effective April 1, 2020)

 \bullet Clarification of policies to respond to each item set forth in CG code

CEO appointment and dismissal, planning and execution of successor development plan

- Adoption of appointment and dismissal process
- Establishment of the selection of a successor candidate, as well as the planning and execution of its development plan with the involvement of the Nomination Committee

Review of executive remuneration system

• Remuneration Committee establishment of an incentive-based executive remuneration system with a variable remuneration ratio (Start operations from FY2021)

Enhancement of governance of subsidiaries

- Review of systems for director nomination and remuneration
- Proactive management of the Board of Directors

Governance : Strengthening Group Governance

- •Organization with good and healthy communication where employees have unrestricted communication
- •Organization capable of autonomously solving issues
- •Organization that adequately shares the understanding of its business

- •Organization that makes prompt and resolute decisions
- •Organization that manages its business with the awareness of the differences between product-type and process-type businesses
- •Organization that aims for thorough digitalization



- •Evaluation of effectiveness and improvement of the board of directors of the Group companies
- •The Group companies' officer training
- Enhanced governance audits^{**}
- %In an audit, various issues may be identified through interviews conducted by corporate department managers with various levels of audited department employees.

Prompt decision making by delegating authority and strengthening supervisory functions

Focused management especially in R&D, manufacturing, and human resources exchange

Accelerated strategy execution by Digital Transformation Management Office

Fargeting organization and corporate culture

Governance : Human Resources Strategy and Change of Organizations

		Secure	and foster talents adaptive to change and forge a healthy organizational culture
		♦Talent	① Secure human resources: Reinforce hiring activities and systems, including within the Group companies, etc.
	HR		② Develop human resources: Visualize capabilities of employees (talent management), etc.
SI	Strategy	♦Organizational culture	 Inhance motivation: Introduce professional talent system, etc. Enhance management capabilities of the Group companies: Promote personnel exchange within the Group, etc.
		Improvement of social value	 Employ diverse talents: Recruitment rate of new female graduates: 25% or more, etc. Health & productivity management: Health company declaration, White 500 certified

Business Divisions

- 1. Promotion of Environmental and Energy Business Division to in-house Company: Positioned as a core business that can contribute to solving social issues
- **2.** Separation of Aluminum Division from Advanced Products Company: Fundamental improvement of profitability and acceleration of strategic review, including overseas expansion

Corporate Division

- 1. Establishment of Marketing Department: Strengthening of corporate marketing functions
- 2. Establishment of Corporate Communications Department: Centralizing information dissemination to stakeholders

Company-wide organization

- 1. Establishment of Digital Transformation Management Office: Promotion of digitalization strategy
- 2. Establishment of Sustainable Management Office: Ensuring business sustainability

Establishment of subcommittees for Communications, Governance, Compliance, Risk Management, Climate Change, Environmental Management, Quality Management, Information Security, and Promotion of Zero Disasters

Future plans and other statements are based on information made available to MMC's management as of the date of the release of this material. Note that there are uncertain/risk factors inherent in plans, and there may be cases in which actual results materially differ from plans and other statements made within this material.

Mitsubishi Materials Corporation