3 Chapter 1 Our Vision

- 22 Chapter 2 Sustainable Growth Strategy
- 23 Members of the One Global Leadership Team
- 24 Executable Plan Based on the "Forging the future" Management Policy
- 31 Message from the CFO

Business Strategy-

Message from the Business Unit Heads 34

Specialty Materials

- 39 Industrial Gases
- 40 Health Care
- 41 MMA
- 42 Petrochemicals and Carbon Products
- 43 Message from the Chief Supply Chain Officer

Innovation —

- 44 Message from the CTO
- 45 Innovation Strategy
- Intellectual Property Strategy 47 Digital
- 48 Message from the CDO
- 49 Digital Strategy
- 52 Message from the Chief Strategy Officer
- 53 Building an In-House Understanding of the Management Policy
- 56 Chapter 3 Strengthening ESG Activities
- 95 Chapter 4 Financial/Non-Financial Information



Strategic focus

globally

Portfolio changes

Our strategic focus

(Billions of ven)

Divestiture

candidates

100

550

(48%)

Grow existing products

sustainability areas

FY2021 results

Sales revenue

¥1,140 billion

EBITDA margin

11%

• Build leadership positions in

■EV/Mobility ■Digital: Semiconductors ■Digital: Electronics ■Food

170

(15%)

100

(9%)

150

170

(15%)

(13%)

Industrial, Medical, Consumer Goods, Building/Construction, etc. Divestiture candidates

Industrial.

Consumer

Medical,

Goods.

etc.

520

(38%)

Building/

Construction,

MCG Group's engine for profitable growth

In the Specialty Materials business, we will achieve sales growth and improved profit margins through fiscal 2025 by executing three key strategies in line with the growth, performance, and sustainability pillar. We have defined EV/Mobility, Digital, and Food as our strategic focus because we expect particularly strong growth in these markets. We aim to grow our businesses at a rate commensurate with market growth. We will transform the Mitsubishi Chemical Group into a specialty materials group by strengthening the position of our products in markets where growth is expected, developing our businesses globally, and stepping up innovation to solve sustainability issues.



FY2025 target

Sales revenue

¥1.370 billion

EBITDA margin

16%

Digital

150 (11%)

200 (15%)

Food 220 (16%)

Semiconductors

Digital: Electronics



SWOT analysis

• EV/Mobility

• Food



High-performance engineering plastics: Global

• EV/Mobility

economic and currency risks

Mitsubishi Chemical Group Corporation KAITEKI REPORT 2023 35

High-performance films: Medium- and long-term



* Includes Polymers & Compounds, Films & Molding Materials, and Advanced Solutions

Chapter

Chapter 2

Chapter

- 22 Chapter 2 Sustainable Growth Strategy
- 23 Members of the One Global Leadership Team
- 24 Executable Plan Based on the "Forging the future" Management Policy
- 31 Message from the CFO
 - Business Strategy-
- Message from the Business Unit Heads 34

Specialty Materials

- 39 Industrial Gases
- 40 Health Care
- 41 MMA
- 42 Petrochemicals and Carbon Products
- 43 Message from the Chief Supply Chain Officer

Innovation -

- 44 Message from the CTO
- 45 Innovation Strategy
- Intellectual Property Strategy 47 Digital
- 48 Message from the CDO
- 49 Digital Strategy
- 52 Message from the Chief Strategy Officer
- 53 Building an In-House Understanding of the Management Policy
- 56 Chapter 3 Strengthening ESG Activities
- 95 Chapter 4 Financial/Non-Financial Information

Business Strategy Specialty Materials

Strategic focus 1

Move from product-focused to market-oriented organization

Promoting the change to a market-oriented business

Among our focus markets, we expect particularly strong growth in the EV/Mobility, Digital, and Food markets. With our specialty materials lineup, we can offer multiple products plus the technological capabilities and skills to supply these markets. To grow our businesses at a rate commensurate with market growth, we will move from a product-focused to a market-oriented organization and grow our products globally.

Rather than taking individual products into specific markets as we have done thus far, we will move to an area-based organization that will allow us to leverage our entire product portfolio to reach customers.

Focus market growth and projected sales growth



*1 Addressable market growth rate in EV, battery, and mobility

*2 Sales growth rates until fiscal 2025 for selected target applications

Strategic focus 2

Grow existing products globally

Making the entire product portfolio available globally

To foster growth in expanding overseas markets, we need to make our entire product portfolio available globally. To develop business in global markets, we will transfer significant authority to each region and develop locally based sales activities

We will work closely with fast-growing customers around the world to grow our business and also promote key account management (one face to the customer).

Strategic focus 3

Build leadership positions in sustainability areas

Further expanding our sustainability position

As we transform under the growth, performance, and sustainability pillar, we are achieving rapid growth through our sustainability brands. The MCG Group has a wide-ranging lineup of products valued for both their superior physical properties and their sustainability. We will further solidify our market position by growing sales of these sustainability brands.

Some of the MCG Group's sustainability brands

	Brand	Chemistry	Туре		
			Bio-based route	Biodegradable	Recyclable
	BioPBS	Polybutylene succinate	0	0	
	DURABIO	Isosorbide-based polycarbonate	0		
	SoarnoL	EVOH*1			0
	Nichigo G-Polymer	BVOH*2		0	
	GOHSENOL	PVOH*3		0	

*1 Ethylene vinyl alcohol copolymer *2 Butenediol vinyl alcohol copolymer *3 Polyvinyl alcohol

DURABIO-a truly innovative bio-based engineering plastic

• Bio-based engineering plastic that combines the advantageous properties of polycarbonate and those of PMMA

• Designed for applications requiring exceptional durable transparency and visual appearance

Example use

Green mobility interior



DURABIO used for the rear heater control panel of the new fuel cell EV MIRAI sold by Toyota Motor Corporation

Specialty materials sales revenue share FY2021 FY2025

Targets for global sales revenue share

Europe 16% > 22% Japan 47% **37%** North America 16% **19%** Other Asia and Oceania 20% > 22%



3 Chapter 1 Our Vision

- 22 Chapter 2 Sustainable Growth Strategy
- 23 Members of the One Global Leadership Team
- 24 Executable Plan Based on the "Forging the future" Management Policy
- 31 Message from the CFO
 - Business Strategy-
- Message from the Business Unit Heads 34

Specialty Materials

- 39 Industrial Gases
- 40 Health Care
- 41 MMA
- 42 Petrochemicals and Carbon Products
- 43 Message from the Chief Supply Chain Officer

Innovation —

- 44 Message from the CTO
- 45 Innovation Strategy
- 47 Intellectual Property Strategy Digital
- 48 Message from the CDO
- 49 Digital Strategy
- 52 Message from the Chief Strategy Officer
- 53 Building an In-House Understanding of the Management Policy
- 56 Chapter 3 Strengthening ESG Activities
- 95 Chapter 4 Financial/Non-Financial Information



Thermoplastic elastomer for

Superior strength at elevated

to improved car safety

temperatures and shock resistant

at low temperatures, contributing

airbag covers

Product highlights

EV/Mobility product supply and electrolyte expansion strategy

Key products in the automotive market



LiB materials

Lineup that includes not only electrolytes, but also materials to provide improved performance in the overall battery pack

Electrolytes High power output

Durability, long life, high safety Control of side reactions at the electrode

> Anode materials · High capacity, long life Stable supply Materials with low environmental impact

Bio-based engineering plastics DURABIO is a bio-based resin that

features excellent transparency. durability, and shock resistance, making it suitable for use in interior and exterior components.



Electrolyte expansion strategy

The MCG Group's electrolytes for LiBs use proprietary additive technologies to suppress side reactions in the electrode, resulting in high power output performance. This, combined with the outstanding durability and high degree of safety of these electrolytes, means automotive applications are expanding. The MCG Group has production and sales sites in four countries, and is bolstering its production capacity in line with the expansion in demand for xEVs (electric vehicles). Furthermore, the Group is considering providing licenses and outsourcing production to accelerate growth.

Demand for LiBs is growing rapidly for automotive applications, particularly EVs, due to increasing awareness of environmental issues worldwide. The global market for automotive LiBs is projected to grow at nearly 30% per year. Automotive manufacturers in the United States are moving to local procurement of parts and materials, and we are also working to strengthen our supply chain. xEVs are taking off in emerging countries as well. For example, the Indian government has set out a policy for EVs to make up 30% of new passenger car sales by 2030. The country is seeking to attract technical support and companies from outside the country. The MCG Group aims to respond to this demand. In India, the Group is helping strengthen the supply system for LiB electrolytes by granting production technologies for electrolytes to Neogen Chemicals Limited, a chemical manufacturer in India with strengths in lithium-related products. The MCG Group has positioned EV/Mobility as a focus market. The Group plans to strengthen the global supply system and help realize a carbon-neutral society by providing products that contribute to reduced environmental impacts.



Mitsubishi Chemical Group Corporation KAITEKI REPORT 2023 37

S Return to the previously viewed page

3 Chapter 1 Our Vision

- 22 Chapter 2 Sustainable Growth Strategy
- 23 Members of the One Global Leadership Team
- 24 Executable Plan Based on the "Forging the future" Management Policy
- 31 Message from the CFO

Business Strategy —

34 Message from the Business Unit Heads

35 Specialty Materials

- 39 Industrial Gases
- 40 Health Care
- 41 MMA
- 42 Petrochemicals and Carbon Products
- 43 Message from the Chief Supply Chain Officer

Innovation —

- 44 Message from the CTO
- 45 Innovation Strategy
- 47 Intellectual Property Strategy Digital
- 48 Message from the CDO
- 49 Digital Strategy
- 52 Message from the Chief Strategy Officer
- 53 Building an In-House Understanding of the Management Policy
- 56 Chapter 3 Strengthening ESG Activities
- 95 Chapter 4 Financial/Non-Financial Information



Product highlights

Digital: Epoxy resin expansion strategy

Epoxy resins are used for a variety of applications, such as paints, adhesives, and semiconductor sealing materials. MCG's specialty epoxy resins have excellent properties, including high heat resistance, low melt viscosity, and low water absorption, and some of them have been adopted as the de facto standard worldwide for semiconductor sealing materials.

The semiconductor market is expected to continue growing rapidly. Previously, we manufactured epoxy resins at our Tokai Plant, but in April 2023 we started operations at a newly constructed production line in our Kyushu Plant to manufacture special epoxy resins for semiconductor sealing and electronic materials in order to satisfy strong demand in the semiconductor market and strengthen our supply capabilities. This new line increases our production capacity by around 30%. MCG will consider further enhancement of production capacity in the future to satisfy increasing demand.

Epoxy resins: High adaptability to cutting-edge IC trends maintains high market share



Food: SoarnoL expansion strategy

SoarnoL exhibits excellent gas-barrier properties and is used as a food packaging material to help preserve food flavor and quality and reduce food waste. Furthermore, our multilayer olefin film that contains the recycling aid *Soaresin* added to *SoarnoL* has been very well received for its recyclable properties.

Demand for SoarnoL is growing around the world in response to rising demand for environmentally friendly products, and we expect solid growth for SoarnoL in the future. To respond to this increase in demand, the MCG Group is building a new production line for SoarnoL at its U.K. plant. We expect this line to boost our production capacity by a further 21 kt per year. The new line is scheduled to start operations around fall 2025. For *DIAMIRON* food packaging film that uses *SoarnoL*, we are leveraging our technology and No. 1 track record in Japan to develop this business in Asian countries, particularly Thailand. The MCG Group has positioned Food as a strategic focus and aims to grow this business and contribute to sustainable food supply through the development and use of high-performance materials such as food packaging materials.

Food packaging materials: Leveraging our No. 1 track record in Japan for multilayer film to appeal to the food needs of Asian countries where demand is expected to increase



Chapter