Group Concept

In February 2023, we reformulated the group philosophy shared by all employees around the world, to help the Mitsubishi Chemical Group grow stronger as "One Team."
We intend to contribute to all stakeholders, including customers and shareholders, by achieving growth and improving corporate value based on our group philosophy.

Purpose

Our Purpose is an expression of what it is striving for and why it exists. It expresses the Group’s persistent determination to realize KAITEKI, the Group’s North Star, which has guided the organization and its commitment to its stakeholders.

We lead with innovative solutions to achieve KAITEKI, the well-being of people and the planet.

Slogan

The Slogan reflects the three management strategies the Group chose to realize its KAITEKI purpose—Management of Technology (MOT), Management of Economics (MOE), and Management of Sustainability (MOS).
The Group will lead the realization of KAITEKI through better Science, by providing Value to all stakeholders and contributing to healthy living and the sustainable Life of people and the Planet.

Our Way

Our Way is what employees use to guide them through their daily work to realize the Group’s Purpose. These criteria define what drives the multitude of decisions employees make every day when it comes to business operations and how they interact with their peers as they work toward common goals.

Integrity
- Prioritizing safety
- Doing the right thing
- Doing work we’re proud of

Respect
- Showing appreciation
- Valuing diversity
- Caring for people and the planet

Bravery
- Thinking flexibly
- Being agile
- Embracing challenges

Collaboration
- Amplifying strengths
- Building trust
- Celebrating teamwork

Persistence
- Taking ownership
- Delivering new value to stakeholders
- Being responsible for the future
Our purpose is to lead with innovative solutions to achieve KAITEKI, the well-being of people and the planet. We accomplish this through better Science, by providing Value to all stakeholders and contributing to healthy living and the sustainable Life of people and the earth.

We are steadily transitioning into a specialty chemicals company through implementation of the “Forging the future” management policy, even against gathering headwinds in the business climate. To achieve this transformation, we are simplifying our organization for more efficient and unified management and focusing on sustainable growth. We are also pursuing continued efforts to strengthen group governance through safety management, rigorous compliance, establishing an internal control system and risk management structure, and more.

We will grow by transforming from a product-focused organization to a market-focused one and building a global sales system for our outstanding solutions.

The Mitsubishi Chemical Group is fully committed to our organization’s sustainable growth, allowing us to contribute to a better future together with our shareholders, clients, employees, local communities, and all other stakeholders. We invite you to join us on this journey for a brighter tomorrow.

Jean-Marc Gilson
President and CEO
*In July 2022, our trade name changed from Mitsubishi Chemical Holdings to Mitsubishi Chemical Group.
Overview of Focus Markets

Our focus markets are aligned to key trends that shape the world as we know it.

The Mitsubishi Chemical Group has selected seven focus markets from the markets we expect to grow in the future. These are markets where we possess strengths in technologies and products and that will allow us to contribute to sustainability. We plan to shift from a product-oriented organization to a market-oriented organization, then develop and expand our business into these focus markets.

Focus markets

<table>
<thead>
<tr>
<th>EV/Mobility</th>
<th>Digital</th>
<th>Food</th>
<th>Medical</th>
<th>Building/Infrastructure</th>
<th>Consumer Goods</th>
<th>Industrial</th>
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<td>P. 10</td>
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<tr>
<td>Battery Materials</td>
<td>Semiconductor Materials and Services</td>
<td>Emulsifiers</td>
<td>Ethical Drugs</td>
<td>Metal/Resin Composite Sheets for Interior and Exterior Use</td>
<td>Biodegradable Plastics</td>
<td>Engineering Plastics</td>
</tr>
</tbody>
</table>
EV/Mobility

**Featured Products**

**Battery Materials**

We maintain advanced technical capabilities ranging from materials development to safety assessment, alongside a global supply network. This allows us to develop electrolytes and anode materials for use primarily in electric vehicle batteries, as well as thermal management materials for battery packs.

**Carbon Fiber Reinforced Plastics**

Lightweight, high-strength carbon fiber composite materials help to reduce weight in aircraft and automobiles. We have developed unique materials like quick-curing prepreg and SMC that combine lightness and strength with high productivity.
Feature Products

Display Components
We offer a wide array of functional materials for displays, including substrate films for polarizers, light guides, optical adhesive sheets, reflective films, and resist material for color filters.

Semiconductor Materials and Services
We handle a wide range of key materials used in various processes of semiconductor manufacturing. Our aim is to develop solutions that advance the semiconductor industry through close collaboration with customers, along with precision cleaning services that are being developed worldwide.
**Focus Market**

**Food**

**Featured Products**

**Emulsifiers**
Emulsifiers used in food products, known as sugar esters, can have a variety of characteristics depending on their raw materials and degree of esterification. Their use extends beyond the foodstuff industry to include cosmetics, pharmaceutical, and industrial applications.

**High Gas Barrier Materials**
Soarnol™ is an ethylene vinyl alcohol copolymer that provides high oxygen barrier properties. By using Soarnol™ in food packaging, the freshness of the food is kept longer and the shelf life can be extended. Soarnol™ is associated with a significant reduction in food loss.
Ethical Drugs
We will help to improve the quality of life of patients and their families around the world through the provision of pharmaceuticals for our core areas of the central nervous system, immuno-inflammation and diabetes/kidneys as well as getting involved in the field of oncology.

Thermoplastic Elastomers Designed for Medical Applications
Zelas®, a highly hygienic pharmaceutical thermoplastic elastomer designed for use in medical devices and pharmaceuticals packaging, is used for products such as infusion bags, tubes and syringe gaskets.
Building/Infrastructure

Featured Products

Metal/Resin Composite Sheets for Interior and Exterior Use

Alpolic™ is a metal/resin composite sheet material with a triple-layer structure consisting of a resin core and metallic surfaces of aluminum or other metals. Its outstanding workability, design characteristics, and light weight have led to its use in a wide array of applications centering on architectural design.

Mobile Package-type Hydrogen Refueling Stations

We develop and market hydrogen refueling stations to promote the widespread use of hydrogen fuel, a promising substitute for fossil fuels.
Biodegradable Plastics

BioPBS™, which is derived from plant-based materials, can be completely broken down by composting equipment or microbes in the soil. It is used for things like agricultural films, garbage bags, paper cups, and food packaging.

Consumer Goods

HI-SELON™, made from polyvinyl alcohol, is a water-soluble film used for liquid detergent packaging due to various features, including heat sealing, solvent resistance, gas barrier, and printability.

Featured Products

Biodegradable Plastics

Liquid Detergent Packaging Films
Industrial

As a global leader in engineering plastics, we are expanding our business in a wide range of fields including industrial machinery, automobiles, aircraft, and healthcare.

Separation Materials
(Ion Exchange Resins)
Our ion exchange resins are designed not only for water treatment but also for a wide range of applications such as medicine/food refinement, wastewater treatment, and ultra-pure water production for semiconductor production. We provide a wide variety of ion exchange resins already known around the world for their excellent physical and chemical properties and superb reproducibility for separation and purification in industrial applications.
Innovation

Accelerating the Creation of Business Value

At the MCG Group, a strong R&D capability is our cornerstone, but we define innovation much more broadly than this. We promote innovation by strategically combining in-house R&D with open innovation, including collaboration with academia, startup companies, corporate partners, and government agencies. We emphasize four key points to further enhance the quality and speed of our innovation.

End-Market Focus
• Integrated innovation strategies driving an optimal balance of internal R&D and open innovation for each focus market
• Agile product development in collaboration with end customers to deliver value at speed
• Flexibility to meet the changing demands of key markets: today, tomorrow, and the day after tomorrow

New Digital Capabilities
• Next-generation computational technologies enabling large-scale and high-throughput simulations
• Materials informatics to accelerate the introduction of new materials and products
• Quantum computing and AI for the information-driven chemical industry of the future

More Efficient Processes
• Seamless transition between long-term research platforms and late-stage product development
• Experimental data platform to create a virtual research organization that transcends physical location

New Business Fields
• Systematic creation of the next generation of high-profit, high-growth business clusters
• “Innovation Sandbox” to rapidly test validity of new ideas beyond the scope of our current business

Corporate Venture Activities

The MCG Group creates opportunities for group-wide business growth through strategic investments and partnerships with promising startup companies worldwide.

<table>
<thead>
<tr>
<th>Startup Company</th>
<th>Specialty and Scope of Collaboration</th>
</tr>
</thead>
</table>
| **AddiFab ApS** | Specialty: Agile manufacturing solution combining additive manufacturing and injection molding for specialty products  
Collaboration: Joint development of additive materials  
Exit: Acquired by Nexa3D |
| **DAIZ** | Specialty: Plant-based proteins and products as a substitute for traditional food products  
Collaboration: Development of alternative protein ingredients |
| **DIGILENS** | Specialty: Holographic waveguide display technology for next-generation Augmented Reality/Virtual Reality devices  
Collaboration: Development of plastic waveguides for AR/VR devices |
| **ERIDAN** | Specialty: 5G radio frequency communication technology leveraging gallium-nitride semiconductors for energy and spectrum efficiency  
Collaboration: GaN strategic supply and market expansion |
| **Fluence Analytics** | Specialty: Continuous monitoring and optimization of industrial and laboratory systems  
Collaboration: R&D efficiency and continuous process improvement  
Exit: Acquired by Yokogawa Electric |
| **Lactips** | Specialty: Water-soluble and biodegradable bio-derived polymer raw material substitute for film and plastic applications  
Collaboration: Development of green materials for customer needs |
| **Lingrove** | Specialty: Plant-based sustainable composites and materials to replace wood in automotive and industrial applications  
Collaboration: Development of bio-based composite solutions |
| **Myoridge** | Specialty: Koj-based food products as a substitute for traditional meat products  
Collaboration: Development of alternative protein ingredients and geographic expansion |
Leveraging Our Technology Advantage in Key Focus Markets

We have developed our technology portfolio over many decades, and the resulting intellectual capital is a principal driving force of our company. In addition to technology platforms embodying our long-term strength, we are creating unique technologies targeting each of the focus markets of “Forging the Future.”

**Key Trends**

**EV/Mobility**
- Electrification
- Lightweight materials
- Modern design

**Digital**
- Speed and complexity
- Miniaturization
- Smart homes and applications

**Food**
- Nutrition and health
- Reducing food waste
- Processability

**Medical**
- Longevity
- Quality of life
- Tailored implants

**Building/Infrastructure**
- Energy efficiency
- Modular construction
- Insulation

**Consumer Goods**
- Personalization
- Sustainability
- Renewable resources

**Industrial**
- Smart materials
- Energy efficiency
- Robotics and automation

**MCG Group Products and Technologies**
- Battery materials
- Composite materials
- Specialty polymers and compounds
- Semiconductor materials, equipment, and components
- Fab cleaning services
- Display films and materials
- Emulsifiers
- Vitamins and nutrition
- Gas barrier films
- Probiotics
- AI-powered drug discovery
- Biomodality-related technologies
- Biocompatible materials
- Construction materials
- Additives for adhesives and coatings
- Façade design materials
- Carbon fiber composites
- Water soluble polymers
- High-performance water filtration
- Industrial processing films and membranes
- Oxygen combustion technology
- Additive manufacturing technology
Sustainability

Promoting a Circular Economy and Achieving Sustainable Operations

The Sustainability Committee promotes a circular economy on a Group-wide basis through a fusion of social and economic value. Our goal is to achieve net-zero greenhouse gas emissions by 2050. To this end, we have set specific targets for greenhouse gas emissions reductions, profits from sales of sustainability-related products, and management of water and waste.

Examples of Initiatives

Initiatives for Recycling Acrylic Resins

The Group is a leading global company with a global MMA market share of around 30%. We are carrying out a demonstration experiment aimed at establishing Japan’s first scheme for collecting used acrylic resins from sources in the market like scrapped cars, then using chemical recycling to allow their reuse as raw materials.

Initiative for Joint Transport of Ethical Drugs for Domestic Distribution

In January 2023, four companies, including Mitsubishi Tanabe Pharma, launched the pharmaceutical industry’s first joint transport initiative to comply with the Good Distribution Practice (GDP) guidelines for proper domestic distribution of pharmaceuticals. It aims to alleviate the shortage of drivers and reduce CO₂ emissions by increasing carry efficiency and reducing the number of delivery vehicles on the road. More efficient transport will lead to more stable supply of ethical drugs and improved quality assurance.

Developing Technology for Combustion of Ammonia Fuel in Industrial Furnaces

One challenge, as we work towards reaching carbon neutrality, is to employ green fuels that do not emit CO₂. Taiyo Nippon Sanso is working to utilize ammonia for its expected benefits as a green fuel. As such, we are developing technology for ammonia-oxygen/oxygen-enriched combustion in industrial furnaces.

<table>
<thead>
<tr>
<th>Item</th>
<th>Target Value</th>
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<tbody>
<tr>
<td>Emissions Reduction</td>
<td>30% Reduction in Scope 1 and 2 emissions by FY2030 ** Achieve net zero by 2050.</td>
</tr>
<tr>
<td>Sustainability-Related Products**</td>
<td>20% of revenue by FY2025</td>
</tr>
<tr>
<td>Waste and Water Management</td>
<td>-50% rate of reduction of landfill waste by FY2025 **</td>
</tr>
</tbody>
</table>

*1 4R: Reuse, Reduce, Recycle, Renewable
*2 Technology to produce valuable products through composting and methane fermentation
*3 Carbon capture, utilization, and storage, a technology for capturing CO₂ and using or storing it to prevent its release into the atmosphere
*4 VS. FY2019 estimated based on MCG’s 29% reduction target incl. Petrochemicals & Carbon Products
*5 Products that improve sustainability themes, particularly those of climate change, circular economy, food supply and water conservation
*6 VS. FY2019

* LCA: Life Cycle Assessment
Corporate Profile

Mitsubishi Chemical Group Corporation

Head Office: 1-1 Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8251, Japan
Date of Establishment: October 3, 2005
Paid-in Capital: 50 billion yen
Listing: The Prime Market of Tokyo Stock Exchange

Financial Highlights

Sales Revenue

- Polymers & Compounds: 25%
- Films & Molding Materials: 11%
- Advanced Solutions: 8%
- Performance Products: 5%
- Health Care: 8%
- Industrial Gases: 5%
- Others: 12%

¥4,634.5 billion

Core Operating Income

- Polymers & Compounds: 25%
- Films & Molding Materials: 11%
- Advanced Solutions: 8%
- Performance Products: 5%
- Health Care: 37%
- Industrial Gases: 8%
- Chemicals: 37%
- Carbon Products: 17%
- Petrochemicals: 17%

¥325.6 billion

Consolidated Financial Results

- Sales revenue (left axis) - Core operating income (right axis)

All figures are for the year ended March 2023 (FY2022)

Main Scope of Business
- Management of Group companies
- (Development of the Group strategies and allocation of financial resource)
- Consolidated Sales Revenue (IFRS): 4,634.5 billion yen
- Consolidated Core Operating Income (IFRS): 325.6 billion yen
- Number of Employees (consolidated): 68,639 people

Mitsubishi Chemical Group Corporation Website
Global Network

Group Sites
(number of countries & regions)

45

Europe
Middle East
22

Asia and Oceania
14

Japan
1

Africa
1

North America
2

Latin America
5

Subsidiaries
593

Proportion of Sales Revenue by Area

Japan 50%
Overseas 50%

All figures are for the year ended March 2023 (FY2022)