Creating a Sustainable World
with the Power of Chemistry

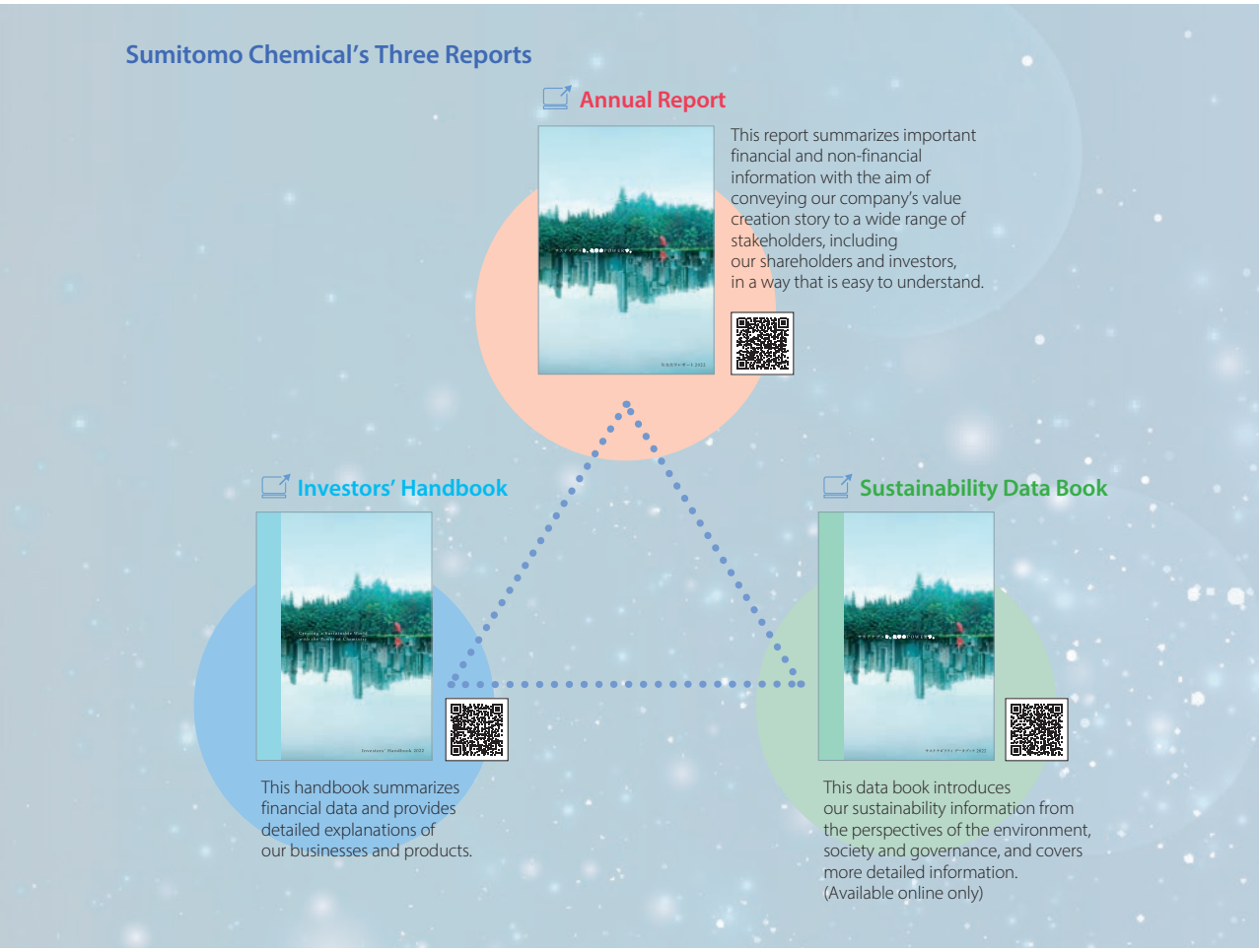
Sustainability Data Book 2022

Contents

Editorial Policy

The *Sustainability Data Book* complements Sumitomo Chemical's *Annual Report*, presenting information deemed important to both the Sumitomo Chemical Group and its stakeholders. The data book principally offers sustainability information about the Group companies from environmental, social, and governance (ESG) perspectives. Regarding quantitative information, assurance is provided on the indicators labeled with a star★ by KPMG AZSA Sustainability Co., Ltd. (Regarding other disclosed information, please check pages 249–251, "Calculation Standards for Environmental and Social Data Indicators," wherein a summary of data collection and calculation methods is presented.)

Sumitomo Chemical hopes that its reports can act as a tool for communication with all its stakeholders that enriches their understanding of the Company and its Group companies.



Guide to the Website

Investor Relations

- Financial Results
- Meeting of Shareholders Documents
- IR Events (presentation, materials used at briefing sessions)
- Fact Sheet

Sustainability

Guide to LinkedIn

LinkedIn

Report Profile

Boundary of This Report:

Sumitomo Chemical Co., Ltd. and its consolidated subsidiaries

In this report, "Sumitomo Chemical" and "Sumitomo Chemical Group" are distinguished as follows.
Sumitomo Chemical: Sumitomo Chemical Co., Ltd.
Sumitomo Chemical Group: Sumitomo Chemical and Group companies

▶ Environmental Data (pages 107–161)

Sumitomo Chemical's manufacturing sites and the production plants of major Group companies (22 companies in Japan and 31 companies overseas)
Principal consolidated Group companies, which account for up to 99.8% of Sumitomo Chemical's consolidated net sales for "Energy consumption and greenhouse gas emissions" (page 115).

[Sumitomo Chemical]
Sumitomo Chemical: All production sites of Sumitomo Chemical Co., Ltd.
Sumitomo Chemical (all worksites): All production and non-production sites of Sumitomo Chemical Co., Ltd.

[Group Companies in Japan]
The production plants of 18 companies sharing the Common Targets (Sumika-Kakoushi Co., Ltd.; Sumika Color Co., Ltd.; Sumika Plastech Co., Ltd.; Nippon A&L Inc.; Asahi Chemical Co., Ltd.; Ceratec Co., Ltd.; Sumika Assembly Techno Co., Ltd.; SanTerra Co., Ltd.; Sumika Agro Manufacturing Co., Ltd.; SC Environmental Science Co., Ltd.; Sumika Agrotech Co., Ltd.; Nihon Medi-Physics Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.; SCIOCS COMPANY LIMITED; SN Kasei Co., Ltd.; Sumika Polycarbonate Ltd; Sanritz Corporation; Sumika Kowa Tech Co., Ltd.). In addition to the 18 companies listed above, **the production plants of 4 information disclosure companies** are included in the calculations of material flow on page 157 (Koei Chemical Co., Ltd.; Taoka Chemical Co., Ltd.; Tanaka Chemical Corporation; Sumitomo Pharma Co., Ltd.;) for a total of 22 companies.

[Overseas Group Companies]
30 companies sharing the Common Targets (The Polyolefin Company (Singapore) Pte. Ltd., Sumitomo Chemical Asia Pte Ltd (MMA&S-SBR), Sumipex (Thailand) Co., Ltd., Bara Chemical Co., Ltd., Sumika Polymer Compounds (Thailand) Co., Ltd., Dalian Sumika Chemphy Chemical Co., Ltd., Sumika Electronic Materials (Wuxi) Co., Ltd., Sumika Electronic Materials (Hefei) Co., Ltd., Sumika Huabei Electronic Materials (Beijing) Co.,Ltd., Sumika Electronic Materials (Xi'an) Co., Ltd., Zhuhai Sumika Polymer Compounds Co., Ltd., Dalian Sumika Jingang Chemicals Co., Ltd., Sumika Electronic Materials (Changzhou) Co., Ltd., Xuyou Electronic Materials (Wuxi) Co., Ltd., Sumika Electronic Materials (Chongqing) Co., Ltd., Sumika Technology Co., Ltd., Sumipex Techsheet Co., Ltd., Sumika Polymer Compounds India Co., Ltd., Dongwoo Fine-Chem Co., Ltd., SSLM Co., Ltd., Sumitomo Chemical Advanced Technologies LLC, McLaughlin Gormley King Company, Valent BioSciences LLC, Sumika Polymer North America LLC, Botanical Resources Australia Manufacturing Services Pty Ltd., Botanical Resources Australia Agricultural Services Pty Ltd., Sumika Polymer Compounds UK Co., Ltd., Sumika Polymer Compounds Turkey Co., Ltd., Sumika Polymer Compounds France Co., Ltd., Sumika Electronic Materials Vietnam Co., Ltd.). In addition to the 30 companies listed above, **1 information disclosure company** is included in the calculations of material flow on page 158 (Sumitomo Chemical India Private Limited) for a total of 31 companies.

Notes: More detailed information about the boundary of data is listed on each page.
Regarding affiliated companies and plants newly included in the boundary of environmental data reporting, results data are tabulated from the fiscal year when the survey was conducted as the Sumitomo Chemical Group.

Period covered by this report:

Group Companies in Japan:
April 1, 2021 – March 31, 2022 (FY2021) (with specific exceptions outside this time frame)
Overseas Group Companies: January 1, 2021 – December 31, 2021

Date of publication:

October 2022 (The previous issue was published in October 2021. The next issue is scheduled for publication in October 2023.)

Frequency of publication:

Once annually

Guidelines referred to when preparing this report:

- The *GRI Standards* P.253 GRI Standards Reference Table
  The *Sustainability Data Book* has been prepared in accordance with "Core option" of the Sustainability Reporting Standards of the GRI.
- The Japanese Ministry of the Environment's "*Environmental Reporting Guidelines*" (2018 edition) and "*Environmental Accounting Guidelines*" (2005 edition)
- The *ISO 26000* international standard on Social Responsibility (SR)
- Recommendations of the Task Force on Climate-related Financial Disclosures (TCFD).
  P.274 TCFD Index

Introduction to the Sumitomo Chemical Group

Corporate Profile (As of March 31, 2022)

Company name:	SUMITOMO CHEMICAL COMPANY, LIMITED
Incorporated:	June 1,1925
Head office:	Tokyo Nihombashi Tower, 2-7-1, Nihonbashi, Chuo-ku, Tokyo 103-6020, Japan
Management:	Representative Director & President: Keiichi Iwata
Capital:	89,699 million yen
Number of employees:	Non-consolidated: 6,488
	Consolidated: 34,703
Number of subsidiaries and affiliates:	210

Corporate Profile

https://www.sumitomo-chem.co.jp/english/company/about/

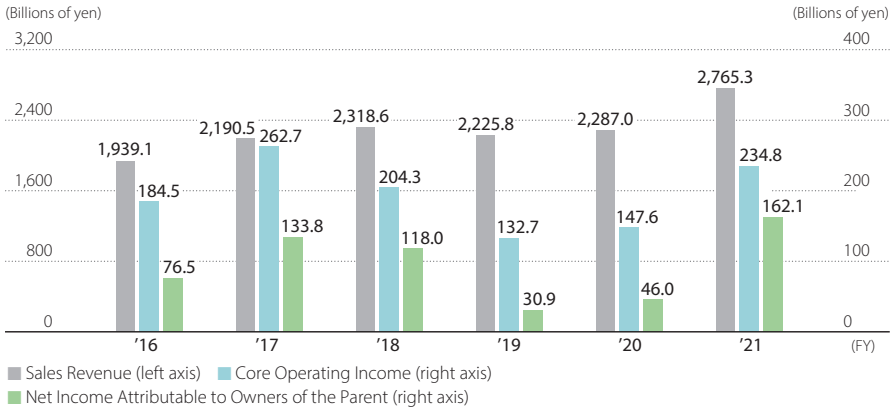
Financial Highlights (For Fiscal 2021, Based on the International Financial Reporting Standards (IFRS))

Sales Revenue:	2,765.3 billion yen (up 21%, year on year)
Core Operating Income:	234.8 billion yen (up 59%, year on year)
Net Income Attributable to Owners of the Parent:	162.1 billion yen (up 252%, year on year)
ROE:	14.5%
Capital Expenditures:	119.5 billion yen (up 6%, year on year)
Research and Development Expenses:	174.9 billion yen (down 2%, year on year)

Chart Generator

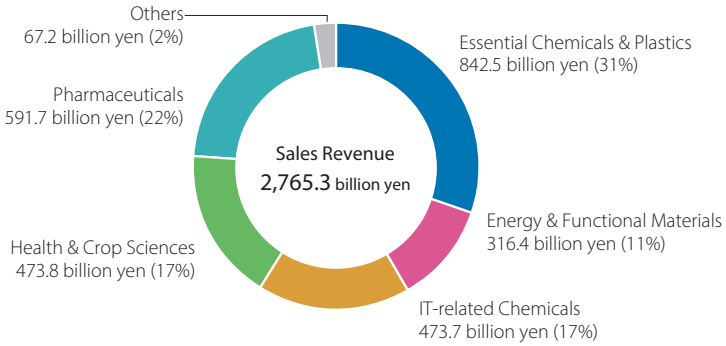
https://www.sumitomo-chem.co.jp/english/ir/finance/highlights/

■ Sales Revenue / Core Operating Income / Net Income Attributable to Owners of the Parent

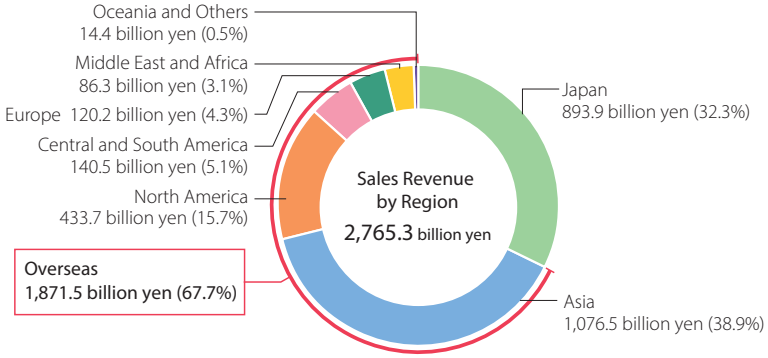


Introduction to the Sumitomo Chemical Group

FY2021 Sales Revenue and Composition Ratio by Business Segment



FY2021 Sales Revenue and Composition Ratio by Region



Investors' Handbook

https://www.sumitomo-chem.co.jp/english/ir/library/investors_handbook/

For a Sustainable Future

Regarding each ESG information, Please refer to the following chapters

Governance: page 57

Environment: page 106

Society (Social Activities): page 162

Contents

President's Message

We will strive to strengthen each of our businesses and get even stronger as an integrated business group to generate synergies as a diversified chemical company to the full.

President's Message

Since becoming President, I have been committed to transforming our corporate culture.

Eliminating "losses due to inaction" and increasing the "speed of business operations"

Three years have passed since I took office as President in April 2019. During this time, there have been significant changes in the environment that I did not anticipate, such as the COVID-19 pandemic and Russia's invasion of Ukraine. I now strongly feel once again that in order to continue to be a company that grows even in highly uncertain, turbulent times, there are "things that we should change" and "things that we should maintain and continue to protect."

I would like to start with what we should change. When I became President, I set the goal of developing a corporate culture full of entrepreneurial spirit. Specifically, I have stressed eliminating "losses due to inaction"—opportunities that may be lost as we fail to take action—and increasing the "speed of business operations." At Sumitomo Chemical, its people are so faithful to their duties that they tend to readily follow precedents that have been successful, while we do not have a culture in which people are blamed for a failure. I therefore felt that we should be more aware that we may lose opportunities if we do not take on new challenges. In these times of dramatic changes, a company cannot survive unless it is willing to constantly try new things, instead of repeating the same old thing. With a sense of urgency, I determined to work on making elimination of "losses due to inaction" a part of our corporate culture.

What is important is not just to make a commitment but to translate this to a desire to "try something new." I thought that if there was any sense of getting nowhere within the company—such as "we don't know what to do" or "even if we take action, it won't make much of a difference"—I would like to break through it by clearly showing management's vision on the way forward for our business. Accordingly, we have laid out the future direction for our individual businesses. For example, we will work to develop and implement in society new technologies for achieving carbon neutrality in the Essential Chemicals & Plastics business. Meanwhile, in the area of biorationals*1 of the Health & Crop Sciences business, we will take on the challenge of reducing environmental impact and increasing food production at the same time. As we share a clear picture of the future for each of our businesses and make decisions and take actions every day toward that goal, I feel that our mindset has been changing gradually.

We also see the "speed of our operations" significantly increasing. For example, we are advancing planning for initiatives toward carbon neutrality at great speed, now becoming a front-runner in the industry. In addition, for new plant construction and capacity expansion projects, we have restructured our engineering team and process, so that the time from planning to start-up is now about three to six months shorter than before. Society is changing rapidly. To keep up with it, we must always ask ourselves what we should do to further speed up our operations and put them into action, while also leveraging digital technology.

*1 The Sumitomo Chemical Group defines microbial pesticides, plant growth regulators and rhizosphere microbial products derived from natural sources, as well as solutions using these products to protect crops from pests and enhance crop quality and yield, as "biorationals."

Our corporate philosophy brings coherence to our diversity.

Meanwhile, there is an essential element in our corporate culture that we want to maintain and continue to protect. A research report published in the U.S.*2 points out that there are four traits shared by companies that have survived for long years. First, they are sensitive to changes in the environment. Second, they are tolerant of new initiatives. Third, they are implementing a conservative financial policy. Fourth, they have strong cohesion and a clear corporate identity, which I consider the most important of these qualities. What distinguishes Sumitomo Chemical from the competition is the diversity of the technologies, addressable market segments, locations of operations, and above all, human resources that we boast as a diversified chemical company. Diversity, however, leads to divergence if left to its own devices. It is necessary to have a linchpin that holds everything together. For Sumitomo Chemical, that is our corporate philosophy articulated by the words, "*Jiri-Rita Koushi-Ichinyo*," which means that our businesses must benefit society at large, not just our own interests. By bringing our diverse people together around this principle, we have created a strong sense of solidarity, so this corporate philosophy should never be changed, and we will continue to uphold it.

*2 *The Living Company 1997*

President's Message

We forged a path forward to resolve our three major management issues in the previous Corporate Business Plan. In the new Corporate Business Plan, we will strive to further improve our business portfolio from the perspective of advancing green transformation.

We decided to carry out large-scale M&As.

Looking back to 2019, when we launched the previous Corporate Business Plan, we were faced with an extremely challenging environment. Three major management issues had come to the fore: strengthening Petro Rabigh to ensure that the Saudi Arabian business consistently contribute to the performance of the then Petrochemicals & Plastics Sector; developing new drugs that would succeed LATUDA®, an atypical antipsychotic blockbuster, as a growth engine of the pharmaceuticals business; and consolidating the foundation of the agrochemicals business to compete with generics.

For the pharmaceuticals and agrochemicals businesses, we implemented large-scale M&As and made major strides toward growth. The moves were opportune, as we were able to make decisions before the COVID-19 outbreak and focus on the post-merger integration process during the pandemic. For Petro Rabigh, we brought new facilities constructed in the Rabigh Phase Ⅱ Project on stream immediately after start-up and the financial completion guarantee was terminated. In this project, our technological prowess was widely demonstrated, as the entire Sumitomo Chemical Group stepped up to contribute, particularly sending a large number of engineers and staff members from our manufacturing teams in Japan. It is a major achievement under the previous Corporate Business Plan that we forged a path forward to resolve these three major management issues.

We also launched company-wide cross-functional projects.

In addition, we launched three company-wide cross-functional projects for "accelerating the development of next-generation businesses," advancing "digital innovation," and achieving "carbon neutrality." In the efforts to accelerate the development of next-generation businesses, we are building an innovation ecosystem for creating new businesses speedily. We aim to establish a system that will help to bring about innovations anywhere in the company, collaborate with startups and academia, and accelerate the process of bringing those innovations to market.

For digital innovation, we implemented our "DX Strategy 1.0" in four areas, including production and R&D, to improve productivity. Regarding carbon neutrality, we formulated a grand design, setting out a direction for our initiatives to achieve the goal. All these projects are one step ahead of society and are beginning to show real progress.

As a result of these efforts, we achieved a record-high net income of 162.1 billion yen for fiscal 2021, the final year of the previous Corporate Business Plan period. Although our financial position temporarily declined due to large-scale M&As, our D/E ratio recovered to 0.79 times as of the end of fiscal 2021, and we will continue to improve it according to our roadmap. I am not satisfied with our performance yet. I consider that we are in the process of realizing returns on the capital investments, M&As, and other measures that we have carried out. We will strive hard to reap the fruits of our efforts and deliver strong financial results.

Fiscal 2022 will be a year when our true competitiveness will be tested.

It was expected that in fiscal 2022, the world economy would begin to recover on the whole, emerging from the effects of the COVID-19 pandemic, but now its outlook remains uncertain due to Russia's continued invasion of Ukraine.

One of the most serious concerns is inflation driven by rising energy prices, and we need to keep watching its development closely. Sumitomo Chemical is affected by higher crude oil prices like many other companies, but the effect on Petro Rabigh is neutral for the Sumitomo Chemical Group on the whole, since the oil-refining and petrochemical affiliate's margins improve as higher crude oil prices lead to higher selling prices for their products while the cost of its major feedstock ethane gas is fixed.

How to pass on rising raw material prices to product prices will be a major challenge for this year. Basically, in the area of high value-added products, to which we have been shifting our businesses, formula pricing is not a generally accepted approach. We must ensure that customers understand the situation and the price increase we need to address increasing costs. It means that our products are put to the test to see how essential they are to customers. In that sense, I consider that this will be a year when the true competitiveness of our products will be tested.

President's Message

Advancing a broadly-defined green transformation

In the basic policy of our new Corporate Business Plan, we have affirmed our commitment to seven priorities, adding "fulfilling obligations and providing contributions toward achieving carbon neutrality" to the six priorities under the previous Corporate Business Plan. It does not mean that we made a significant change to our management policy, however, as we have already been working on a company-wide, cross-functional project for carbon neutrality since the middle of the previous Corporate Business Plan period.

Of the seven priorities, the most important is "further improving our business portfolio." Simply put, we will work to enhance the earning power of each of our businesses, stepping up efforts to make them stronger, following the various measures we have taken over the past three years. What is new is that under the new Corporate Business Plan, we will incorporate the perspective of "green transformation" into all the priorities set out in the basic policy. While green transformation generally refers to transformation of society driven by efforts to achieve carbon neutrality, we at Sumitomo Chemical expand the scope of the concept to include conserving ecosystems and ensuring healthy lives, and will strive to advance this broadly-defined green transformation and explore ways to contribute as a corporation to creating a sustainable society. For instance, we will work to strengthen resource recycling technologies in the Essential Chemicals & Plastics business, meet the needs of next-generation energy systems in the high-performance functional materials business, and direct resources to strengthening our biorationals in the crop protection business. Enhancing the earning power of all our businesses and striving to further improve our business portfolio, while incorporating the perspective of the broadly-defined green transformation—this is the central point of our new Corporate Business Plan.

President's Message

The petrochemicals business is an "essential" business to society and to Sumitomo Chemical.

An industry that is essential to achieving carbon neutrality

While there are many different views about the future of the petrochemicals business, we consider it essential both to society at large and to Sumitomo Chemical. To explicitly express that value, we have changed the name of our Petrochemicals & Plastics Sector to "Essential Chemicals & Plastics Sector."

The petrochemicals business supports people's lives by providing raw materials for a vast number of products and supplies, forming the foundation of Japan's manufacturing industry. Going forward, in a carbon neutral world, a petrochemical complex will surely be needed within Japan for implementing chemical recycling. For these reasons, we consider the petrochemicals business an essential industry for society as well as for manufacturing in Japan.

In addition, in order for the chemical industry, which is said to be a greenhouse gas (GHG)-intensive industry, to change to one that reduces or absorbs GHG emissions in the future, it needs to utilize the catalyst and process technologies that have been developed over many years in the petrochemicals business. In this sense, the petrochemicals business is vitally important and essential to Sumitomo Chemical too, as we, being a chemical company, strive to transform the industry into a carbon recycling industry. With these two thoughts and messages in mind, we have renamed our Petrochemicals & Plastics Sector as Essential Chemicals & Plastics Sector.

Playing a part in restructuring of petrochemical complexes

By 2050, when the world will have become carbon neutral, the majority of fuels will be replaced by renewable energy, and most raw materials will be recycled. We believe that in the long run our Essential Chemicals & Plastics business will play a major part in raw materials recycling at a petrochemical complex in Japan. Our Singapore complex will serve as a platform to implement in society new technologies that we are developing. Our Saudi Arabian complex is expected to contribute as a cash cow for some time, and after that, it might expand into new areas such as green hydrogen and green ammonia, leveraging abundant solar radiation and land, the advantages of its location. We would like to move toward the year 2050, with these three operation bases of Japan, Singapore, and Saudi Arabia playing their respective roles and cooperating with each other.

President's Message

In our efforts to achieve carbon neutrality, we focus attention to "timeline" and "international collaboration."

The timeline for the next 10 years is crucial.

I consider that as we advance our efforts to achieve carbon neutrality, we should focus attention on two major issues. The first is "timeline." Needless to say, the rise in temperature would not be curbed, even if emissions are suddenly reduced to zero just before 2050. We need to cut back on emissions as soon as possible. To do that, we will strive to maximize reductions by using the best available technologies, while at the same time developing new technologies, until 2030. From 2030 onward, we will implement the new technologies in society one after another to achieve zero emissions by 2050. We need to take this two-stage approach. To achieve this, it is necessary to ensure that next-generation technologies will have progressed at least to the prototyping or demonstration stage by 2030, proving feasibility to some extent. Therefore, the timeline for the next 10 years will be crucially important.

The second major issue is "international collaboration." Currently, there is a conflict of interest between developed countries that have achieved economic development while emitting a vast amount of GHGs and emerging countries that aspire to realize economic development in coming years. Although it is not easy to achieve both economic growth in emerging countries and global GHG emissions reduction, one possible solution is to provide emerging economies with currently available technologies that developed countries have as well as new technologies that they will develop in the future for supporting emerging countries' economic growth. To promote such a movement, it would be necessary, for example, to build a mechanism in which if a technology transfer has contributed to GHG emissions reduction in the recipient emerging country, the country that has licensed the technology can count that effect as its own reductions. This kind of international collaboration will become extremely important in coming years.

It is because we are an integrated group of strong businesses that we can demonstrate the true value of our diversity as a diversified chemical company.

Strengths of a diversified chemical company

I am totally committed to "demonstrating Sumitomo Chemical's full capabilities as a diversified chemical company," and take every opportunity to express this commitment in and outside the company. As I mentioned at the beginning, the strength of a diversified chemical company is diversity. Sumitomo Chemical is an integrated group of diverse businesses, and those businesses are not isolated from one another, but share common technological platforms. For example, the pharmaceuticals and agrochemicals businesses have a common technological platform for safety, and so do some high-performance functional materials businesses in terms of manufacturing processes. As each business grows, these shared technological platforms will advance along the way, while the connections between these technologies and each business will also be strengthened. It is not that being diverse is valuable in itself. It is because we are an integrated group of strong businesses that we can demonstrate our full capabilities and generate synergies as a diversified chemical company.

Each of our businesses has a different set of key success factors, so highly advanced management skills are required, but we believe that the business model of a diversified chemical company has advantages that outweigh that challenge. When we face significant changes in the business environment, such as the COVID-19 pandemic, it offers defensive strength, as our businesses effectively respond to changes by supporting each other in a complementary way. It also provides offensive strength, putting us in the position to be able to seize new business opportunities emerging in cross-industry, intersectoral areas.

However, if our individual businesses are not strong enough, we cannot realize these benefits or generate the synergies that are created by leveraging full capabilities as a diversified chemical company. We will strive to further enhance the competitiveness of each of our businesses and become even stronger as an integrated business group and thereby demonstrate the full power of Sumitomo Chemical's strength of "diversity."

The Sumitomo Chemical's Corporate Philosophy

Sumitomo Chemical's business began when gasses from the copper smelting process of the Besshi Copper Mine caused a pollution problem, and there was an urgent need for a solution. Sumitomo Chemical was founded to resolve this problem, using those gasses as the raw material for fertilizer manufacturing, overcoming an environmental problem while also improving agricultural productivity. This philosophy of resolving problems facing society through its business is in the DNA of the Sumitomo Chemical Group.

The Sumitomo Chemical's Corporate Philosophy consists of four parts: the Sumitomo Spirit; the Business Philosophy, which expresses the Company's vision, mission and values; the Basic Principles for Promoting Sustainability, which articulates its approach and commitment to sustainability; and the Sumitomo Chemical Charter for Business Conduct, which stipulates the guidelines for our business conduct with a view to promoting the sound development of the Company.

■ The Framework of Sumitomo Chemical's Corporate Philosophy

The Sumitomo Spirit is expressed in the words of the "Sumitomo Business Principles" and "*Jiri-Rita Koushi-Ichinyo*." The Sumitomo Business Principles states that fulfilling the trust placed by business partners and society in us should be our first priority, while also firmly warning us to avoid being preoccupied by pursuing easy gains. "*Jiri-Rita Koushi-Ichinyo*," a verbal phrase passed down through generations, is said to represent the Sumitomo Spirit that Sumitomo's businesses must benefit the nation and society at large, not just our own interests. These principles have been upheld by all companies in the Sumitomo Chemical Group.

The Sumitomo Spirit

The Sumitomo Business Principles

1. Sumitomo's business should seek to thrive and prosper by putting trust first and building on reliability.
2. Sumitomo's business should closely watch the changing of the times and carefully weigh opportunities and risks and should never chase short-term gains in good times and bad.

The Business Philosophy expresses the Sumitomo Chemical's vision, mission and values based on the Sumitomo Spirit, including the "Sumitomo Business Principles" and "*Jiri-Rita Koushi-Ichinyo*," which have been passed down from generation to generation.

Sumitomo Chemical's Business Philosophy

1. We commit ourselves to creating new value by building on innovation.
2. We work to contribute to society through our business activities.
3. We develop a vibrant corporate culture and continue to be a company that society can trust.

The Sumitomo Chemical's Corporate Philosophy

The Basic Principles for Promoting Sustainability articulates the Group's approach and commitment to sustainability. In the framework of our corporate philosophy, we place these principles just below the Sumitomo Spirit and Sumitomo Chemical's Business Philosophy to show our commitment to working on the promotion of sustainability as a management priority.

Basic Principles for Promoting Sustainability

We at the Sumitomo Chemical Group are committed to promote sustainability by acting in accordance with Six Basic Principles, guided by the Sumitomo Spirit and the Group's Business Philosophy, namely contributing to establishment of sustainable society through achieving sustainable growth of business.

Principle 1: Creating economic value which helps create social value (Promoting our credo "Our businesses must benefit society at large, not just our own interests (*Jiri-Rita Koushi-Ichinyo*)")

We are committed to promote creating economic value (*jiri**) which helps to create social value (*rita**) through offering technological or other innovation so that we can continue to grow as a business group that earns the trust and confidence of society.

P.16 What Sumitomo Chemical Group Strives to Be

Principle 2: Contribution to solving globally vital issues

We are committed to contribute to solving a variety of issues that are globally vital, such as establishing diverse and inclusive society and achieving the Sustainable Development Goals (SDGs), as well as doing business in compliance with accepted universal standards and principles, including those concerning human rights, labor, safety, the environment and anti-corruption.

P.17 Material Issues to Be Addressed as Management Priorities

Principle 3: Active participation in global initiatives

We are committed to play a leadership role in multilateral initiatives through actively participating in various partnerships domestically and overseas with international organizations, national or local governments, business corporations, industrial associations, universities, academic circles, civic communities, etc.

P.40 Participation in Initiatives

Principle 4: Collaboration with stakeholders

We are committed to work closely with various stakeholders through promoting spontaneous disclosure of information and open dialogue on the targets of our sustainability promotion initiatives and the progress of their implementation.

P.46 Communication with Stakeholders

Principle 5: Top management commitment and participation by all

We are committed to carry out initiatives toward promoting sustainability, led by our top management having taken firm pledges to this end and advanced by all officers and employees, across the Sumitomo Chemical Group with a shared strong sense of mission and great enthusiasm.

P.31 Promoting Sustainability

Principle 6: Enhancing Corporate Governance

We are committed to assess and improve our activities continually and proactively for promoting sustainability by reviewing the progress of the activities periodically and from holistic viewpoints.

P.29 Sustainability Promotion System

* "*Jiri-Rita Koushi-Ichinyo*," while not expressly stated, is also regarded as an embodiment of the Sumitomo Spirit in that Sumitomo's businesses must benefit the nation and society at large, not just our own interests.

The Sumitomo Chemical's Corporate Philosophy

The "Sumitomo Chemical Charter for Business Conduct" stipulates the guidelines for our business conduct and serves as the foundations of our efforts to promote compliance, with a view to promoting the sound development of the Company.

Sumitomo Chemical Charter for Business Conduct

1. We will respect Sumitomo's business philosophy and act as highly esteemed good citizens.
2. We will observe laws and regulations, both at home and abroad, and will carry out activities in accordance with our corporate rules.
3. We will develop and supply useful and safe products and technologies that will contribute significantly to the progress of society.
4. We will engage in voluntary and active initiatives to achieve zero-accident and zero-injury operations and preserve the global environment.
5. We will conduct business transactions based on fair and free competition.
6. We will endeavor to make our workplaces sound and energetic.
7. Every one of us will strive to become a professional and achieve advanced skills and expertise in our field of responsibility.
8. We will actively communicate with our various stakeholders, including shareholders, customers, and local communities.
9. As a corporate member of an international society, we will respect the culture and customs of every region of the world and contribute to the development of those regions.
10. We will strive for the continued development of our Company through business activities conducted in accordance with the guiding principles described herein.

P.83 Compliance

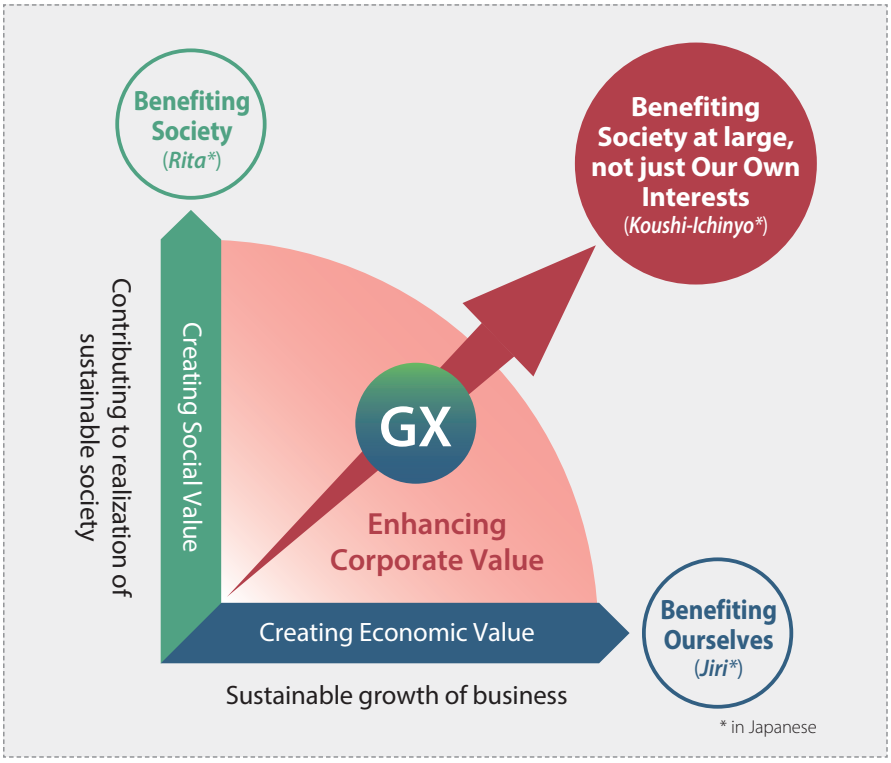
What Sumitomo Chemical Group Strives to Be

The Basic Principles for Promoting Sustainability defines the promotion of sustainability as contributing to the establishment of a sustainable society through our business and achieving sustained growth for our Group, thereby aiming to enhance the Group's corporate value. We will continue to pursue our principle of "*Jiri-Rita Koushi-Ichinyo*," creating both economic and social value and increasing our corporate value along the two axes of *Jiri* and *Rita*—with the *Jiri* axis for economic value and the *Rita* axis for social value.

In recent years, awareness of sustainability has been rising around the world, focusing not only climate change but also ecosystem conservation and health promotion. The Company has broadly defined this as green transformation (GX) and considers it an opportunity to transform itself and contribute to society. Going forward, we aim to contribute to solving social issues through business by transforming our business portfolio over the long term from a GX perspective.

■ Image of Enhancing Corporate Value

What We Strive to Be	Achieve sustained growth for the Sumitomo Chemical Group and build a sustainable society by creating both economic and social value



*Jiri-Rita Koushi-Ichinyo**	Our businesses must benefit society at large, not just our own interests.

GX	We contribute to solving social issues through business by promoting the broadly defined green transformation (GX) of climate change, ecosystem conservation, and health promotion.

Material Issues to Be Addressed as Management Priorities

In its Business Philosophy, Sumitomo Chemical affirms its commitment to creating new value by building on innovation, contributing to society through its business activities, and developing an invigorating corporate culture and continuing to be a company that society can trust. Based on this three-part philosophy, we have identified our material issues that we will address as management priorities.

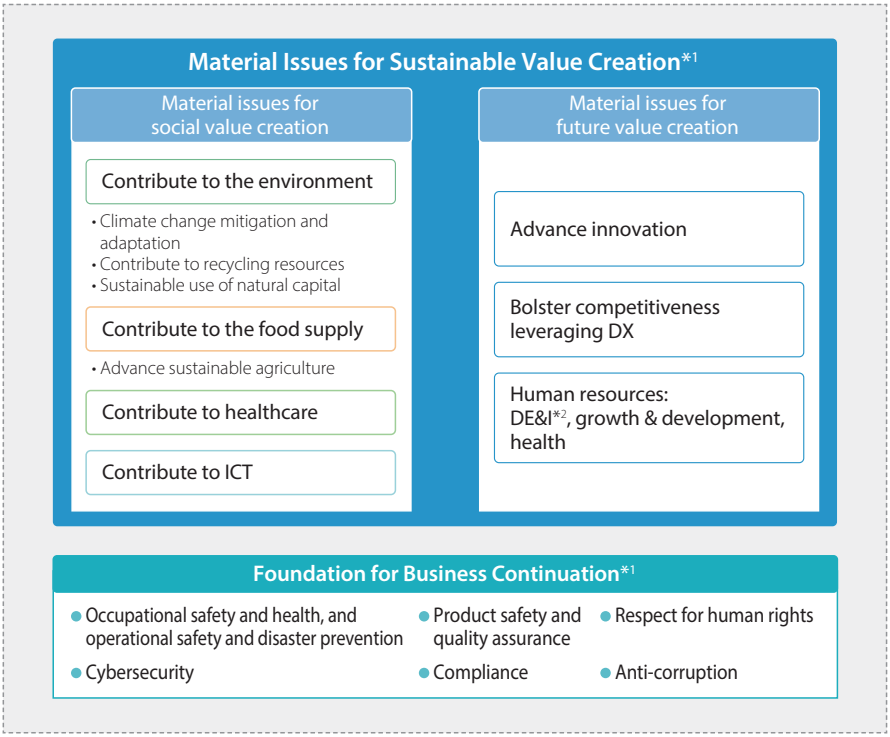
In fiscal 2018, the Group first identified and announced material issues for sustainable value creation. We revised the issues in fiscal 2021 based on changes in society since then.

We identified our material issues for sustainable value creation, which comprise two sets of material issues --those for social value creation and those for future value creation. The environment (including contribution to climate change mitigation and adaptation, and resource recycling), food issues, healthcare, and ICT are classified under material issues for social value creation. Promoting innovation, enhancing competitive advantage through digital transformation, and human resources (diversity, equity, and inclusion (DE&I); training and growth; and health) are classified as material issues for future value creation.

Furthermore, regarding the items that serve as the foundation for continuing our business — occupational safety and health, industrial safety and disaster prevention, product safety and quality assurance, respect for human rights, compliance, anti-corruption, and cyber security — we have been making Group-wide efforts and will continue to work on them as management priorities.

We have set key performance indicators (KPIs) for initiatives related to our material issues for sustainable value creation. With the use of KPIs, we will continue to manage and disclose the progress of those initiatives, while also promoting dialogues with stakeholders in and outside the company, to enhance and accelerate our sustainability efforts. Regarding those items serving as the foundation for business continuation, we will continue to proactively make disclosures on our initiatives and outcomes and step up our efforts.

■ Material Issues for Sustainable Value Creation and the Foundation for Business Continuation



*1 Partially revised in March 2022 *2 Diversity, Equity & Inclusion

The items serving as the foundation for business continuity are elaborated in the following sections:

Occupational safety and health, and operational safety and disaster prevention
P.206 Occupational Safety and Health / Industrial Safety and Disaster Prevention

Product safety and quality assurance
P.213 Product Stewardship / Product Safety / Quality Assurance

Respect for human rights
P.165 Respect for Human Rights

Cybersecurity
P.104 Cybersecurity

Compliance
P.83 Compliance

Anti-corruption
P.91 Anti-corruption

Material Issues to Be Addressed as Management Priorities

Process for Identifying and Revising Material Issues to Be Addressed as Management Priorities

When identifying our material issues, we selected the issues that we considered, based on our Corporate Philosophy, as what the Group should address and compared them with those societal issues identified in the Sustainable Development Goals and various international guidelines related to sustainability. We also referred to external experts' advice as well as what we learned by engaging in various initiatives and communicating with stakeholders.

We believe that 1) resolving issues through our business and creating both social and economic value is as important as 2) continuing our business to achieve relevant goals. Based on this view, we have identified our material issues for sustainable value creation based on the former belief and our foundation for business continuity based on the latter belief.

We revised the issues in fiscal 2021 based on subsequent changes in society. We will regularly confirm these issues going forward and revise them as necessary.

■ Process for Identifying and Revising Material Issues

1 An Overall Evaluation of the Group's Contribution to Sustainability

Discussed in the Sustainability Promotion Committee

❶ Begin by analyzing the issue along two axes, importance to business and importance to society

- Identify material issues for continually creating both economic value and social value
- Consider perspectives on utilizing resources, including technology, digital technology, and personnel
- Clarify relationships between various initiatives, including occupational safety and health and compliance

❷ Grasp stakeholder requirements

- Take into consideration trends in international society and outside evaluations obtained through participation in initiatives

❸ Dialogues with experts

- Listened to expert opinions and advice regarding our policies on material issues to be addressed as management priorities

Major international guidelines and initiatives we referred to

- Initiatives by WBCSD and other relevant bodies
- ISO 26000
- SDGs
- The 10 Principles of the United Nations Global Compact
- GRI Standards
- Third-party assessments (including FTSE and EcoVadis)

2 Clarifying Material Issues

Discussed in the Sustainability Promotion Committee

- Identified candidates for the Group's material issues to be addressed as management priorities, with a view to creating both economic value and social value sustainably
- Identified the selected Material Issues as "Material Issues for Social Value Creation," for those issues connected to creating business opportunities, and "Material Issues for Future Value Creation," for the issues related to resources that can become drivers in the creation of business opportunities
- Identified the items serving as the essential foundation for business continuity, including occupational safety and health and compliance

3 Deliberation and Approval by Management

Approved by the Board of Directors after deliberation in several management meetings

Applied to the Corporate Business Plan

Key Performance Indicator (KPI) for Material Issues

Sumitomo Chemical has recently established key performance indicators (KPIs) for initiatives related to our material issues for sustainable value creation.

Material issues for social value creation

Material Issues	KPI	Details	Boundary*1	Results			Goals	SDG Targets
				2019	2020	2021		
Contribute to the environment	Amount of Group's GHG emissions (Scope 1+2)	Reducing GHG emissions through our group's initiatives.	(1)	7.22 million tons	7.42 million tons	7.65 million tons	Reduce by 50% by 2030 (vs. FY2013)	13.3
	Contribution to reducing GHG emissions throughout the product life cycle (Battery-related materials)	Contribution to reducing GHG emissions throughout the product life cycle by developing and supplying products.	(1)	17.20 million tons-CO_2	17.65 million tons-CO_2	18.61 million tons-CO_2	—	13.3
	Sales revenue of Sumika Sustainable Solutions*2 designated products	Provide solutions for the realization of a sustainable society through the development and popularization of Sumika Sustainable Solutions (SSS) designated products	(1)	479.8 billion yen	463.3 billion yen	621.2 billion yen	Sales revenue of 1,200 billion yen by FY2030	
	Unit energy consumption	Continuous improvement of unit energy consumption by rationalization	(1)	103 ('18=100)	103	86	Will achieve improvement of 3% or more per each Corporate Business Plan period as a group (FY2018 level as baseline)	7.3
	Number of petrochemical technology licenses	Helping to reduce environmental impact through technology licensing	(2)	14	14	14	—	9.4
	The amount of recycled plastics used in manufacturing processes	Drive adoption of technologies for reducing environmental impact and advance circular systems for carbon resources	(1)	—	—	Approximately 2,400 tons	200k tons/year by 2030	12.5
Contribute to the food supply	Effect of increasing production of animal protein including poultry	Continuously improving the production of animal protein, including poultry, by developing and providing feed additives	—	Approximately 5 million tons	Approximately 4.8 million tons	Approximately 4.6 million tons	—	2.1
	Agricultural land area where agrosolution products are used	Ensuring the stable supply of food by developing and providing agrosolution products	—	Approximately 79 million hectares	Approximately 90 million hectares	Approximately 90 million hectares	—	2.4
Contribute to healthcare	Number of people protected by products for the control of tropical infectious diseases	Helping protect people from infectious diseases carried by mosquitoes by developing and providing vector controlproducts including Olyset™ Nets	—	Approximately 400 million persons	Approximately 410 million persons	Approximately 440 million persons	—	3.3
	Constant development of new drugs in areas where high unmet medical needs exist	Progress on main development pipeline	—	New Drugs Approved				3.4
Contribute to ICT	Number of mobile devices using polarizing films	Advancing technological innovation for diversified workstyles and improved productivity through the provision of materials for mobile devices	—	2.7 billion (cumulative total)	3.2 billion (cumulative total)	3.6 billion (cumulative total)	—	8.2

*1 Boundary: (1) Sumitomo Chemical Group, (2) Sumitomo Chemical (Non-Consolidated)
*2 Our Group's products and technologies that help to address global warming, reduce environmental impact and promote effective use of resources.

Key Performance Indicator (KPI) for Material Issues

Material issues for future value creation

Material Issues	KPI	Details	Boundary*1	Results 2019	Results 2020	Results 2021	Goals
Advance innovation	Patent asset size	Accelerated creation of next-generation businesses in four priority areas and execution of the Company's Grand Design for carbon neutrality, while expanding and strengthening the patent portfolio.	(1)	14,901 (pt)	15,346 (pt)	15,702 (pt)	—
Bolster competitiveness leveraging DX	Digital maturity level	Establishment of Digital Maturity Levels to rate the level of achievement in terms of 12 items with the aim of improving sustainably	(1)	2.6	2.9	3.3	—
Human resources: DE&I*2, growth & development, health	Each group company sets its own KPI in light of the environment facing each	Percentage of female employees in positions equivalent to manager or above	(2)	5.8% (April 2020)	6.3% (April 2021)	7.0% (April 2022)	Over 10% by FY2022
		Percentage of male employees taking childcare leave	(2)	44.7%	63.8%	73.5%	Over 70% by FY2022
		Percentage of employees who taken self-selected training programs, etc.	(2)	—	—	—	50% or more of all employees by FY2024
		Maintain certification as a Health & Productivity Management Outstanding Organization (White 500)*3	(2)	Certification	Certification	Certification	Maintain certification

*1 Boundary: (1) Sumitomo Chemical Group, (2) Sumitomo Chemical (Non-Consolidated)
*2 Diversity, Equity & Inclusion
*3 The program was created in 2016 by the Ministry of the Economy, Trade and Industry. It recognizes companies that practice outstanding health and productivity management based on the health promotion efforts of the Japan Health Council and initiatives aligned with local health issues. (Health and productivity management is a registered trademark of NPO Kenkokeiei.)

KPIs for material issues for social value creation

Material Issue **Contribute to the environment**

KPI

Amount of Group's GHG emissions (Scope 1+2)

Reducing GHG emissions through our group's initiatives.

Contributing to the achievement of SDG 13.3

Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

- In 2018, Sumitomo Chemical obtained the SBT approval, becoming the first diversified chemical company to receive the approval.
- In 2021, revised our targets upward, with 2020 as the base year, and applied for a new SBT certification.

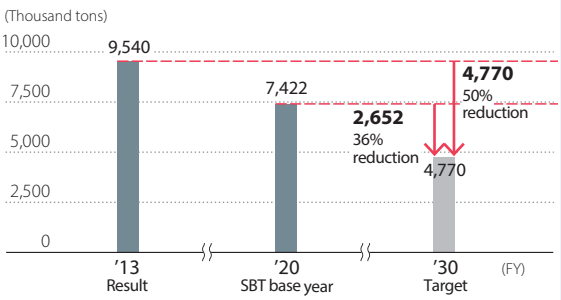
Targets (vs. FY2013)

Reduce by **50%** by 2030

Initiatives to achieve the commitment

- Switch fuel to LNG
- Thorough energy conservation and other measures

■ GHG Emissions and Reduction Targets



P.115 Climate Change Mitigation and Adaptation: Greenhouse Gas Emissions

Key Performance Indicator (KPI) for Material Issues

Material Issue **Contribute to the environment**

KPI

Contribution to reducing GHG emissions throughout the product life cycle (Battery-related materials)

Contributing to the achievement of SDG 13.3

Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

◆ **Mitigation of climate change by using battery materials**

Due to the strengthening of environmental regulations around the world, the shift to eco-friendly vehicles* is accelerating. We will help mitigate climate change by providing battery materials.

* EVs, HEVs, PHEVs, Fuel cell cars

◆ **Toward the achievement of SDG 13.3**

We will continue to develop technologies in the fields of energy storage and energy saving, and will promote the technological development of chemical recycling for our principal chemical products, such as polyolefin, to help achieve a carbon recycling society.

◆ **Highlights of sustainability efforts**

In April 2022, the development of our direct recycling technology, which recycles cathodes separated and collected from dead batteries without reverting them into metal, was selected by the New Energy and Industrial Technology Development Organization (NEDO) for the Green Innovation Fund's Next-generation Storage Battery and Motor Development Project.

Eco-friendly vehicles manufactured in FY2021 incorporating SCC's battery materials (Separator, Cathode, Alumina) will help reduce the GHG emission volume* over the next 10 years by:

FY2021 results

18.61 million tons-CO_2

* Based on 2021-made vehicles in "cLCA evaluation on next generation vehicles" by the Japan Chemical Industry Association.

Material Issue **Contribute to the environment**

KPI

Sales revenue of Sumika Sustainable Solutions* designated products

Provide solutions for the realization of a sustainable society through the development and popularization of Sumika Sustainable Solutions (SSS) designated products

Sumika Sustainable Solutions

◆ Certification began in 2016 to encourage the development and promotion of products and technologies that will address environmental aspects of the SDGs, such as reduced environmental impact.

◆ Verified by a third-party institution. The results of the internal designation have been evaluated as valid.

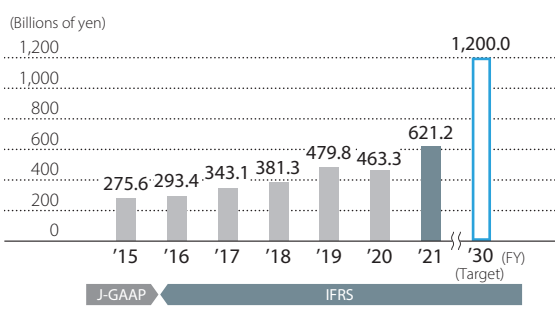
Targets

Sales revenue of **1,200 billion** yen by FY2030

Initiatives to achieve the commitment

- Designated 66 products and technologies as of August 2022
- Participation by all SCC Group companies

■ Sales Revenue of SSS-designated Products



* Our Group's products and technologies that help to address global warming, reduce environmental impact and promote effective use of resources.

Key Performance Indicator (KPI) for Material Issues

Material Issue **Contribute to the environment**

KPI

Unit energy consumption

Continuous improvement of unit energy consumption by rationalization

Targets (FY2018 level as baseline)

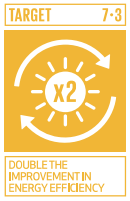
Will achieve improvement of **3%** or more per each Corporate Business Plan period as a group

Initiatives to achieve the commitment

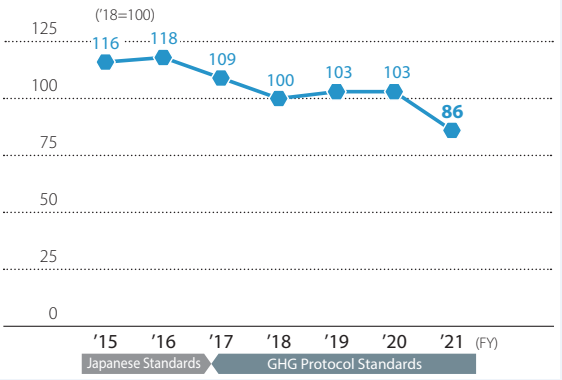
- Optimization of facilities using steam
- Improvement in energy collection and quantification of lost volume such as waste heat

Contributing to the achievement of SDG 7.3

By 2030, double the global rate of improvement in energy efficiency



■ SCC Group Unit Energy Consumption Index



Material Issue **Contribute to the environment**

KPI

Number of petrochemical technology licenses

Helping to reduce environmental impact through technology licensing

Contributing to the achievement of SDG 9.4

By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities

Reduction of environmental impact by applying licensed technologies

- **Hydrogen Chloride Oxidation process:**
  Highly energy efficient, enables recycling of byproducts as raw materials.
- **Propylene oxide (PO) – only process:**
  No co-products, high yield and energy efficient, stable operation. First in the world to succeed in recycling cumene on a commercial scale.

Total number of plants under license as of the end of FY2021

14

Note: Propylene oxide (PO)-only process and hydrogen chloride oxidation process licenses

Toward the achievement of SDG 9.4

We will strive to develop technologies for use in a wide range of fields, such as CO_2 separation membranes to improve energy efficiency, and waste water treatment processes with less environmental impact, in order to reduce society's total environment impact.

Highlights of sustainability efforts

- **Japan SPEC® operational support service launched**
  We aim to contribute to the smooth start-up and sustainable operation by offering operational support to petrochemical plants mainly in emerging countries.
- **Niihama LNG Station started to supply**
  By switching to LNG fuel, we expect reductions in CO_2 emissions of 650,000 tons annually in the near future.
- **Promoted use of clean ammonia**
  We have begun considering collaborations with external partners to promote the use of clean ammonia as a fuel or chemical feedstock with no CO_2 emissions.

Key Performance Indicator (KPI) for Material Issues

Material Issue Contribute to the environment

KPI

The amount of recycled plastics used in manufacturing processes

Drive adoption of technologies for reducing environmental impact and advance circular systems for carbon resources

Contributing to the achievement of SDG 12.5

By 2030, substantially reduce waste generation through prevention, reduction, recycling, and reuse

Initiatives to achieve the commitment

- **Initiatives related to material recycling**
  Deploy technologies to perform crushing, melting or other treatments on waste plastic resources to reuse the resources as a material input in a variety of applications
  - Studying technological alliances with recycling companies
  - Commercializing automotive part-related recycling, etc.
- **Initiatives related to chemical recycling**
  Deploy technologies to chemically treat recycled resources and waste plastic resources and convert them to other chemical substances for reuse
  - Recycling waste-derived resources
  - Developing technology to produce alcohols from CO_2, etc.

Targets

200k tons/year by 2030
Note: 13% of our plastic production capacity

FY2021 result

Approximately **2,400** tons

Meguri
CIRCULARITY FOR ALL

Highlights of sustainability efforts

- In February 2022, themes related to chemical recycling technologies, such as the production of alcohols from the CO_2 and the direct conversion of waste plastics to olefins, were selected for NEDO's Green Innovation Fund project focusing on the Development of Technology for Producing Raw Materials for Plastics Using CO_2 and Other Sources.
- We are developing the Meguri® brand for recycled plastic products.

Material Issue Contribute to the food supply

KPI

Effect of increasing production of animal protein including poultry

Continuously improving the production of animal protein, including poultry, by developing and providing feed additives

Contributing to the achievement of SDG 2.1

By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round

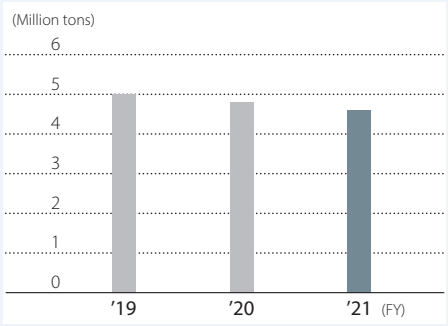
Status of Utilizing and Promoting KPIs in Departments

We aim to utilize such opportunities as visits to overseas Group companies and briefings on departmental policies and budgets to instill these KPIs. As for results, relevant executives explained the KPIs and initiatives when visiting each worksite and overseas Group companies.

Highlights of sustainability efforts

- We introduced measures for enhanced productivity, the environment and safety, and continuously promoted the stable production of methionine. In addition, we are promoting the development of new products that can help enhance livestock productivity, including improved feed efficiency.
- We launched the new plant growth regulator Accede™, which contributes to the stable production of food and more efficient work.
- In the area of tropical infectious disease control solutions, we are promoting long-lasting insecticidal bed nets Olyset™ Plus, which show a significant effect against insecticide-resistant mosquitoes, and indoor residual spray SumiShield™ across Africa.

Increased Production of Animal Protein



Note: Calculation method undisclosed (confidential)

Key Performance Indicator (KPI) for Material Issues

Material Issue Contribute to the food supply

KPI

Agricultural land area where agrosolution products are used

Ensuring the stable supply of food by developing and providing agrosolution products

Contributing to the achievement of SDG 2.4

By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality

Agrosolution products

Products that improve the quality and yield of crops and help farmers achieve high productivity and profitability, including paddy rice crop protection products, seed treatments, herbicides for soybeans, plant growth regulators, biorational insecticides and products to improve soil health.

We develop new products to serve various needs by inventing new active ingredients, evaluating safety on humans and the environment, and developing application technologies.

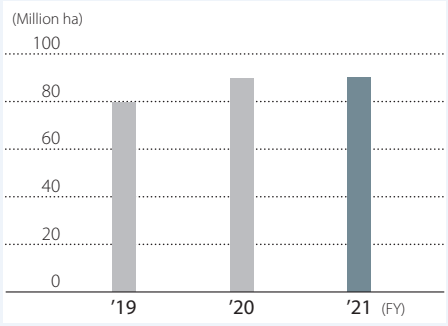
Toward the achievement of SDG 2.4

We will develop next-generation crop protection products to enable the earliest market launch while expanding our lineup of unique products, such as biorationals, etc., where we hold a competitive advantage.

Highlights of sustainability efforts

Valent BioSciences, a group company supplying biorationals—a category of agrosolution products—has issued its Sustainability Report 2018/2019.

Farmland Utilizing SCC Agrosolution Products



Note: Calculation method undisclosed (confidential)

Material Issue Contribute to healthcare

KPI

Number of people protected by products for the control of tropical infectious diseases

Helping protect people from infectious diseases carried by Helping protect people from infectious diseases carried by mosquitoes and other vectors by developing and providing vector control products including Olyset™ Nets

Contributing to the achievement of SDG 3.3

By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases

Vector control products

Products that are used to control mosquitoes and thus prevent malaria and other tropical infectious diseases. These include long lasting insecticidal nets such as Olyset™ Nets and indoor residual sprays.

Recent climate change is increasing the threat of tropical infectious diseases worldwide, thus increasing the importance of such products.

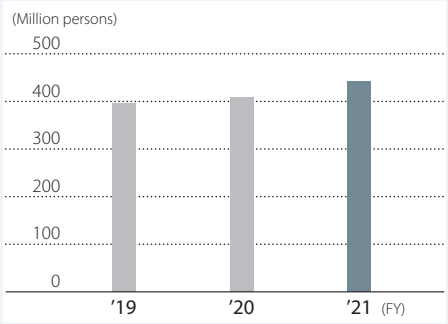
Toward the achievement of SDG 3.3

We aim at developing new insecticides and also promoting integrated vector management programs capitalizing on our technological platform (chemical insecticide, biorational, botanical, etc.) based on long-term development activities.

Highlights of sustainability efforts

In the area of tropical infectious disease control solutions, we are promoting long-lasting insecticidal bed nets, which show a significant effect against insecticide-resistant mosquitoes, and indoor residual spray SumiShield™ across Africa.

People Protected by Our Vector Control Products*



Note: Calculation method undisclosed (confidential)

* The total number of people per year who have been protected from tropical diseases thanks to the use of these products during the products' periods of efficacy

Key Performance Indicator (KPI) for Material Issues

Material Issue **Contribute to ICT**

KPI

Number of mobile devices using polarizing films

Advancing technological innovation for diversified workstyles and improved productivity through the provision of materials for mobile devices

Contributing to the achievement of SDG 8.2

Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors

◆ **Polarizing films**

Indispensable material for flat panel displays, such as liquid crystal displays and OLED displays. Contributes to improved performance of displays with regard to such factors as brightness, contrast and viewing angle.

◆ **Toward the achievement of SDG 8.2**

We are developing various ICT-related materials and devices for 5G telecommunication equipment, next-generation semiconductors, optical image sensors, etc., to promote the realization of Society 5.0.

◆ **Highlights of sustainability efforts**

We are working to develop and improve the quality of the following products to support the diverse workstyles, productivity improvement, and lifestyle changes that have accompanied the proliferation of 5G service and the expansion of telework during the pandemic:

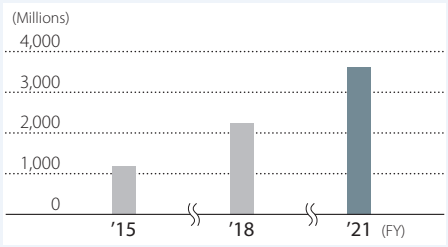
(1) Polarizing films for OLED Panel
(2) Coated-type polarizing films suitable for foldable devices
(3) Polarizing films for 5G-compatible mobile devices
(4) Materials related to 5G telecommunications
(5) Gallium nitride substrates, which help reduce electric power loss

Mobile devices that use our polarizing films

Cumulative total for the period from FY2007 to date (as of the end of FY2021)

3.6 billion

■ Transition of Cumulative Total for the Period from FY2007



Note: Calculation method undisclosed (confidential)

KPIs for material issues for future value creation

Material Issue **Advance innovation**

KPI

Patent asset size

◆ **Patent rights**

The right granted by patent authorities through prescribed screening procedures for the exclusive use for a defined period of time of a valuable invention generated by R&D.

◆ **Patent asset size (Patent Asset Index™)**

An objective quantification of the overall value of the patents held by Sumitomo Chemical Group based on the technological attractiveness and market exclusivity of each patent. Maintaining attractiveness requires continued R&D that addresses new requests from society.

◆ **Accelerated generation of new businesses for a sustainable society**

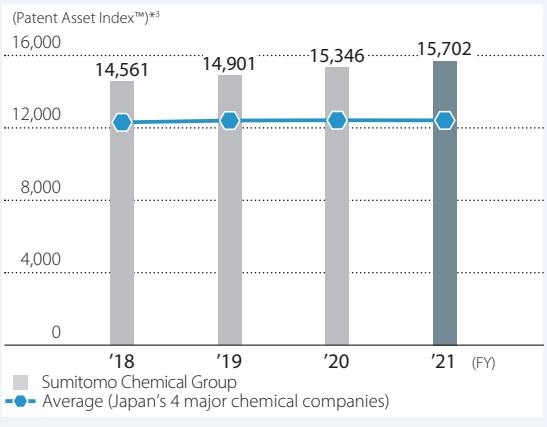
We will thoroughly implement the use of AI/MI*1 in our R&D labs, and accelerate the generation of new businesses in four priority areas through collaboration with academia and startups. In addition, we will promote initiatives from a long-term, comprehensive perspective through the Company's Grand Design aimed at realizing carbon neutrality.

◆ **Trends in our patent asset size**

Our patent asset size has remained high, reflecting our efforts to step up R&D and patenting in recent years. We will continue to enhance and strengthen our patent portfolio.

*1 Artificial Intelligence / Materials Informatics

■ Patent Asset Size*2



*2 Patent asset size is evaluated using the Patent Asset Index™, generated using the patent analysis tool LexisNexis PatentSight®.

*3 The Patent Asset Index™ is an index for comprehensively assessing the status of legally active patents based on quantity (number of patents) and quality (countries of registration and number of citations).

Key Performance Indicator (KPI) for Material Issues

Material Issue Bolster competitiveness leveraging DX

We will evaluate our level of achievement in terms of 12 items, using a rating scale from 1 to 4, and use the mean value of the scores as our Digital Maturity Level.

KPI
Digital maturity level (a 4-point-rating scale)

Digital maturity level		
FY2019	FY2020	FY2021
2.6 points	2.9 points	3.3 points

We have put forward the concept of Digital Maturity Level, which includes evaluations of 12 items, including ideal approaches to business management and systems for promoting digital transformation (DX), as well as the development of IT systems as a foundation for achieving DX. Self-assessment of our level of achievement and challenges for each item can lead us to take actions to attain higher levels, and help us sustainably improve in a continuous evaluation cycle.

Digital Maturity Level

Score	Maturity Level
4	Continuous Group-wide implementation of digital technologies based on the "SCC Group strategy" and quantitative evaluation criteria
3	Group-wide implementation of digital technologies based on the "SCC Group strategy"
2	Implementation of digital technologies in some business units based on the "SCC Group strategy"
1	Implementation of DX in some business units without a clear "SCC Group strategy"

12 Evaluation Items

Ideal approaches to business management and systems for promoting DX[*1]

1. Strategies and visions
2. Commitments by business management
3. Mindset and corporate culture
4. Promotion and support systems
5. HR development and secure HR recruitment
6. Reflection of outcomes in business

Development of IT systems as a foundation for achieving DX

7. Systems and governance
8. Secure HR recruitment
9. Ownership of the business operation department
10. Analysis and assessment of IT assets
11. Categorization of IT assets and planning thereof
12. IT system after IT Renovation: Ability to follow up on changes

*1 DX stands for Digital Transformation

Note: Refer to the Guidelines for Promotion of Digital Transformations and Assessment Indices for Digital Management Reforms ("DX Promotion Indices") by METI

FY2021 Main Initiatives and Policies Moving Forward

- In fiscal 2021, in addition to the existing DX Strategy 1.0 (enhancing productivity in four digital fields), we will implement the following initiatives to promote DX Strategy 2.0 (ensuring the competitive advantages of existing businesses) and DX Strategy 3.0 (realizing a new business model), thereby enhancing the KPIs of relevant evaluation items.
  (1) Shifting from a promotion structure led by Corporate Departments to one led by Business Sectors
  (2) Re-organization of IT Division for supporting DX (founding of SUMIKA DX ACCENT Co., Ltd. (April 2021) to quickly utilize advanced digital technologies and integration with Sumitomo Chemical Systems Service Co., Ltd. (July 2021) to strengthen business and IT collaboration)
  (3) Continuing to train DX personnel
- In fiscal 2022, under the new Corporate Business Plan, we will work on DX personnel training and strengthening sustainable promotion systems with the aim of leveling up over the medium to long term.

Highlights of sustainability efforts

- The Company's DX Strategies and series of initiatives based on those strategies were praised, and we were certified as an operator who conducts excellent DX initiatives by the Ministry of the Economy, Trade and Industry. (Certification date: July 1, 2021)
- We developed CFP-TOMO™, which is a tool for calculating the carbon footprint of products in the chemical industry. (Refer to page 120.)

Each Field's Promotion Divisions and Frontlines Cooperated to Steadily Promote Initiatives

DX Strategy 1.0 Enhancing productivity	Plant	• Utilize many digital technologies, including AI, production plans, and devices (such as wireless sensors and drones) to manage operations and equipment and enhance productivity in such fields as supply chain cooperation
	R&D	• Roll out material informatics (MI) across all research laboratories • Upgrade MI platforms to each research laboratory equipped with data tools to enable everyone to easily use MI
	SCM	• Deploy and roll out planning operational and performance management efficiency tools (supply and demand plans, standard inventory calculations, inventory management, etc.) • Proof of concept (PoC) for operational data management tools and systems to respond to inquiries
	Office	• Establish communication where time and place cannot be chosen by utilizing Teams and Box • Promotion of standard operation automation through RPA
DX Strategy 2.0 Strengthening competitive advantages of existing businesses		Begin initiatives led by Business Sectors • Utilize digital marketing in the car part business: Offer solutions to a wider market by improving customer contact points (https://www.sumitomo-chem.co.jp/automotive/english.html) • Develop and roll out a pest identification app in the crop protection chemical business: Establish a new value creation route by strengthening customer contact points (https://www.i-nouryoku.com/link/expests/index.html (Japanese Only))
Personnel training		• Engineering digital personnel (data scientists, data engineers): Achieve the medium-term target number of personnel (170 or more) through unique educational programs and strengthen capabilities through OJT • Business digital personnel (business translators, business analysts): Launch full-scale training programs, including practical lessons for resolving real issues and classes customized for the Company. More than 50 people are already undergoing training. • Continue to strengthen the aforementioned digital personnel training and assign multiple DX promotion leaders to all business operation departments, research groups, and manufacturing sections by the end of fiscal 2024. • From fiscal 2022, we plan to provide DX literacy enhancement training for all departments and ranks as a way to raise overall competency levels in addition to training digital personnel

Key Performance Indicator (KPI) for Material Issues

Material Issue Human resources: DE&I, growth & development, health

We will promote the securing and development of human resources, which we consider to be our most important management resource, from a long-term perspective and achieve sustainable growth of the Group through enhanced engagement.

<DE&I (Diversity, Equity, and Inclusion)>

We have established the Basic Principles on the Promotion of DE&I as our group-wide guiding philosophy related to the promotion of diversity, equity, and inclusion. Based on these principles, each of about 100 major Group companies will determine their own KPIs in view of their respective circumstances.

KPI: Sumitomo Chemical (non-consolidated)

The Company aims to achieve the targets below during fiscal 2022:
1. Have women in at least 10% of positions equivalent to managers or above (April 1, 2022: 7.0%)*1
2. At least 70% of male employees taking cessation from work for childcare (FY2021: 73.5%)
3. For employee opinion survey statements below, achieve an affirmative response rate of 80% or more

(%)

	2016	2019	2022
(1) The Company provides programs and a workplace environment that make it easy to combine work with childbirth, parenting, or caring responsibilities	70.7	77.2	77.7
(2) The atmosphere in the workplace makes it easy for both men and women to use the programs allowing leave or days off, or reduced working hours, for parenting or caring purposes	52.8	69.5	75.1
(3) The Company enables female employees to demonstrate their full potential	49.1	53.4	54.2

*1 Fiscal 2021 Results

◆ Progress of Group companies in Japan and overseas in setting KPIs

Many of the KPIs set by Group companies are related to the active promotion and empowerment of women, work-life balance, and diversity regarding nationality, racial background, and age. Going forward, we will continue working with Group companies to promote initiatives aimed at achieving these KPIs.

https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/kpi_diver_group.pdf

<Training and Growth>

To encourage people to learn and grow on their own, in line with the concept of "whenever, wherever, however many times," we offer training programs they can select for themselves

KPI

50% or more of all employees taking self-selected training programs by FY2024

◆ Self-Selected Training Programs

(1) Learning platform SUMIKA Learning Square
In-house programs to acquire comprehensive knowledge related to operations (a total of 50 courses, steadily expanding)

(2) Self-Improvement Courses
Programs that enable learning on personal smartphones and PCs, such as business and language skills (a total of 700 courses and 6,500 videos)

<Health>

KPI

Maintain certification as a Health & Productivity Management Outstanding Organization (White 500)*2

Results (March 2022)

Maintained certification over the past 5 years since fiscal 2017

*2 The program was created in 2016 by the Ministry of the Economy, Trade and Industry. It recognizes companies that practice outstanding health and productivity management based on the health promotion efforts of the Japan Health Council and initiatives aligned with local health issues. (Health and productivity management is a registered trademark of NPO Kenkokeiei.)

Corporate Business Plan (FY2022 – FY2024) and Sustainability

Currently, we are advancing our fiscal 2022 to fiscal 2024 Corporate Business Plan under the slogan, Change and Innovation—with the Power of Chemistry.

In recent years, awareness of sustainability has gained momentum. Taking this as an opportunity, we aim to use our strengths in diversity—from business and technology to geography and people—to broadly pursue a Green Transformation (GX), leveraging the Power of Chemistry to the hilt to address social challenges such as carbon neutrality and protection of the ecosystem.

Through these activities we will make powerful contributions aimed at resolving social challenges in four priority areas—the environment, food, healthcare and ICT (Information Communications Technology).

P.17 Material Issues to Be Addressed as Management Priorities
P.19 Key Performance Indicator (KPI) for Material Issues

■ FY2022 – FY2024 Corporate Business Plan

Slogan

Change and Innovation
~ with the Power of Chemistry ~

Bringing together the power of chemistry to contribute to solving society's challenges

Sumitomo Chemical's strengths	×	Further growth opportunities
Diversity of businesses, technologies, geographies and people at Sumitomo Chemical		Advancing **Green Transformation (GX)** in a broad sense responded to changes in society

Basic Direction

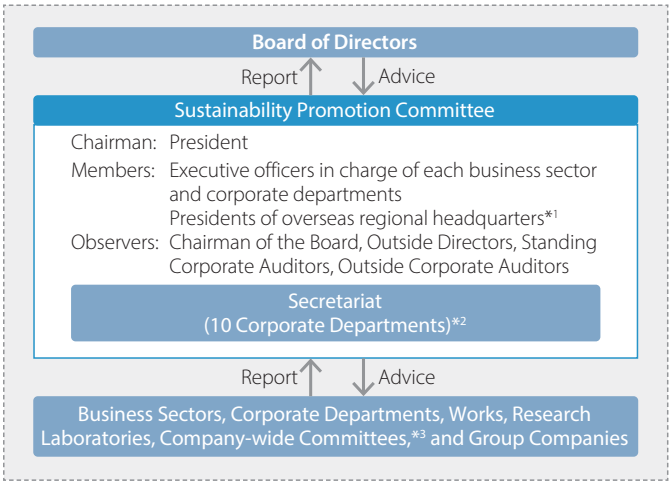
- Further improve business portfolio (strengthen and reform businesses)
- Improve financial standing
- Accelerate the Development of Next-Generation Businesses
- Obligations and contributions toward becoming Carbon Neutrality
- Improve productivity and strengthen businesses through digital innovation
- Employ, develop and leverage human resources for sustainable growth
- Ensure full and strict compliance and maintain safe and stable operations

Sustainability Promotion System

Promotion System

In April 2018, Sumitomo Chemical enhanced the CSR Promotion Committee, thereby creating the Sustainability Promotion Committee. The results of the committee's discussions are reported to the Board of Directors every time they convene, and the committee receives guidance as necessary and, in turn, provides necessary advice to each executive body.

■ Sustainability Promotion Committee



*1 The Americas region, Europe region, China region, and Asia-Pacific region
*2 The Sustainability Department, Legal Department, Human Resources Department, Corporate Communications Department, Corporate Planning Department, Research Planning and Coordination Department, Responsible Care Department, Finance Department, Procurement Department, and Logistics Department
*3 The Responsible Care Committee, Human Rights Promotion Committee, Carbon Neutral Strategy Council, etc.

(Purpose)

❶ Oversee the Group's sustainability promotion activities
❷ Comprehensively verify contributions to sustainability
❸ Accelerate efforts to solve issues in society, including the SDGs

(Role)

The committee provides advice to each executive organization to ensure that the Group's business activities all function organically to realize sustainability for all society and that said activities are fairly assessed by stakeholders.

❶ **SOLUTION:** Providing advice to each business sector and each Group company on contributing to the sustainable growth of society through business operations
❷ **INITIATIVE:** Providing advice to various committees through participation in international initiatives
❸ **ENGAGEMENT:** Providing advice related to assessing and enhancing communication through dialogue with stakeholders

(Members)

The Sustainability Promotion Committee is chaired by the president of Sumitomo Chemical and composed of executive officers in charge of each business sector, the executive officers in charge of the corporate departments and the presidents of four overseas regional headquarters.

(Observers)

The Chairman of the Board, Outside Directors, Standing Corporate Auditors, and Outside Corporate Auditors attend as observers.

(Secretariat)

The committee's secretariat comprises the Sustainability Department, Legal Department, Human Resources Department, Corporate Communications Department, Corporate Planning Department, Research Planning and Coordination Department, Responsible Care Department, Finance Department, Procurement Department, and Logistics Department.

Sustainability Promotion System

(Fiscal 2021 Results)

The Sustainability Promotion Committee meeting was convened twice. The committee shared information on international trends related to sustainability and comprehensively assessed medium- to long-term ESG issues from a risk-reward perspective, based on which it suggested various measures to accelerate contributions to the Group's sustainability to relevant departments and organizations and promote the integration of sustainability and management in order to realize "*Jiri-Rita Koushi-Ichinyo*."

When formulating the new Corporate Business Plan, we determined, based on discussions of the Sustainability Promotion Committee and other groups, we set out a long-term transformational direction. This direction comprises the outline of a general green transformation (GX) aimed at optimizing various initiatives targeting the realization of carbon neutrality as well as a broadly defined GX that encompasses a wide scope of biodiversity conservation and health promotion measures while taking into consideration the human perspective. Through all these efforts, we clarified the social issues that the Company is working to address in the environmental, healthcare, food, and ICT fields and, reflecting these issues, also partially revised Material Issues to Be Addressed as Management Priorities.

Promoting Sustainability

As the Sumitomo Chemical Group works on the issue of sustainability, we follow the principle of "T-S-P." "T" stands for top management's commitment, "S" for solutions, and "P" for participation by all. We believe that to effectively drive our sustainability efforts, it is essential that every one of over 30,000 officers and employees in the Group work together as one, sharing our corporate philosophy comprising Sumitomo's business principles, the Business Philosophy, the Basic Principles for Promoting Sustainability, and the Sumitomo Chemical Charter for Business Conduct.

■ Approach to accelerate sustainability

Top Commitment: Addressing the Promotion of Sustainability as a Management Priority

In the Basic Principles for Promoting Sustainability, we declare that Sumitomo Chemical's top management is committed to promoting sustainability. We also place these principles just below Sumitomo's business principles and the Business Philosophy in the framework of our corporate philosophy to show our commitment to working on the promotion of sustainability as a management priority. Under our Corporate Business Plan, which was launched in April 2022, we recognize the rapid trend toward a sustainable society as a change in the surrounding business environment. We will bring together our strengths as a diversified chemical company, consider opportunities to contribute to solutions of social issues, and undertake an advancing Green Transformation (GX) in a broad sense with the power of chemistry.

In fiscal 2021, the Sustainability Department sent a letter to all Group companies to communicate the Group's new sustainability initiatives, including global project implementation report, external evaluation results reports and utilization, the enhancement of external promotions and disclosures, and our initiatives based on laws and regulations related to respecting human rights. Videos have been produced explaining the details of the Sustainability Promotion Committee and distributed to worksites. Meanwhile, the Senior Managing Executive Officer in charge of sustainability and Sustainability Department employees held multiple briefing sessions at Group companies in Japan to communicate the Group's sustainability initiatives, while also implementing the same communication efforts for Group companies outside Japan through our four overseas regional headquarters.

■ FY2021 Sustainability Promotion Committee Report

Location	Sessions	Participants
Worksites	Distributed explanation videos	All employees
Sectors	4	Top management
Group companies in Japan	3	Presidents and sustainability managers of each company
Group companies overseas	7	Presidents of regional headquarters Sustainability managers of regional headquarters Sustainability managers of each company

P.7 President's Message

Promoting Sustainability

Solutions: Contributing through Business—Sumika Sustainable Solutions (SSS)

Sumitomo Chemical recognizes that environmental and climate change problems present the Group with business opportunities, such as an increase in demand for products and technologies that help solve issues related to the environment and climate change by, for example, reducing GHG emissions. To seize these kinds of opportunities, Environmentally Friendly Product Designation Committee (Sumika Sustainable Solutions Designation Committee) designates the Group's products and technologies that contribute to such issues as global warming countermeasures, reducing environmental burdens, and effective use of resources, as Sumika Sustainable Solutions (SSS) and encourages their development and widespread adoption.

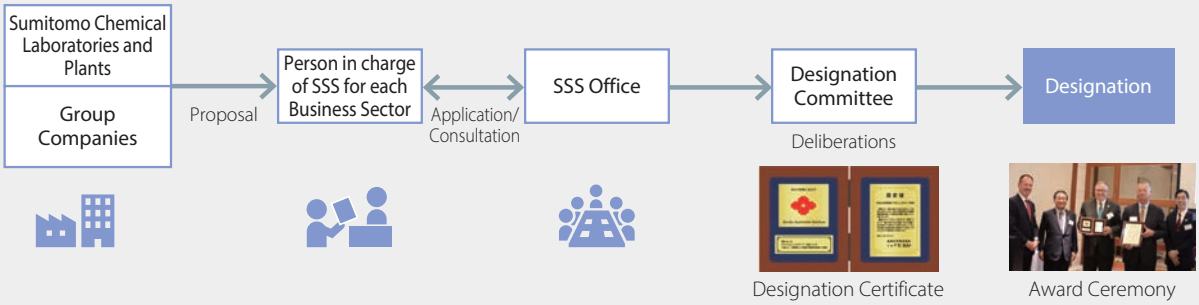
We have also set targets based on sales revenue from SSS-designated products, and we have been monitoring the progress of our efforts by using those KPIs. In addition, we include contributions to the creation of social value and SSS designation in the selection criteria for our employee commendation system.

Going forward, the Group will continue solving issues in order to build a sustainable society by devoting its attention to promoting the development and widespread use of SSS-designated products and technologies.

Note: Environmentally Friendly Product Designation Committee (Sumika Sustainable Solutions Designation Committee) was established under the Responsible Care Committee.

The Process of SSS Designation

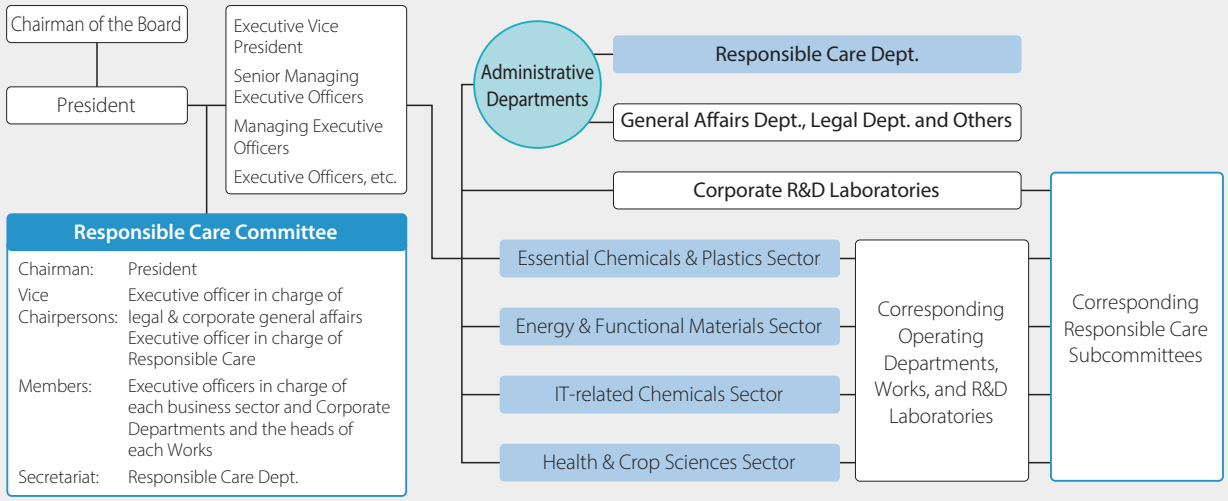
Our laboratories, plants and group companies apply for designation for their products and technologies, and the Designation Committee formally makes the designation. A third-party organization has reviewed all cases designated to date and assessed the results of the in-house designation for them as valid.



Designation Certificate

Award Ceremony

Organization of the Environmentally Friendly Product Designation Committee



Responsible Care Committee

Chairman:	President
Vice Chairpersons:	Executive officer in charge of legal & corporate general affairs Executive officer in charge of Responsible Care
Members:	Executive officers in charge of each business sector and Corporate Departments and the heads of each Works
Secretariat:	Responsible Care Dept.

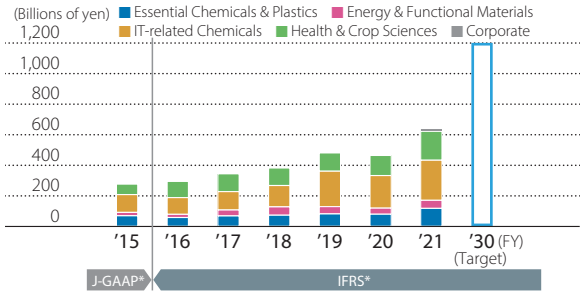
Environmentally Friendly Product Designation Committee (SSS Designation Committee)

Chairman:	Executive officer in charge of Responsible Care
Vice Chairpersons:	General manager of Responsible Care Dept.
Members:	General managers of Planning & Coordination Office of each sector, general managers of Sustainability Dept., Corporate Communications Dept., Research Planning and Coordination Dept., and Process & Production Technology & Safety Planning Dept.
Secretariat:	Responsible Care Dept.

Promoting Sustainability

In fiscal 2021, the seventh year of this initiative, the number of SSS-designated products and technologies totaled 66, amounting to approximately 621.2 billion yen in terms of sales revenue. New designations were given to such products and technologies of Sumitomo Chemical and the Sumitomo Chemical Group as Thermofil™ HP, a glass fiber-reinforced polypropylene material that can be used to replace aluminum parts and thereby reduce vehicle weight, and GaN circuit boards for laser projectors, which do not use mercury and consume less power than conventional models. The Company is now aiming to achieve sales revenues of 1,200 billion yen from SSS-designated products and technologies by fiscal 2030.

Sales Revenue of SSS-designated Products



* J-GAAP: Japanese GAAP, IFRS: International Financial Reporting Standards

(Billions of yen)

	FY2021
Sales revenue of the Sumitomo Chemical Group	2,765.3
Sales revenue of SSS-designated products	621.2

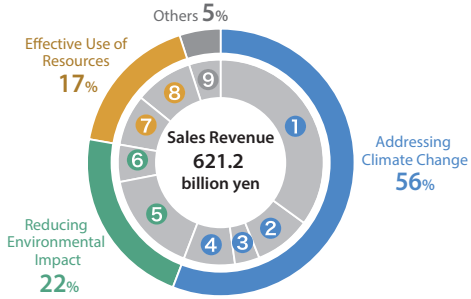
Designation Requirements by Category

Category	Designation Requirements	Responses to the SDGs
Addressing Climate Change	❶ Contributing to reducing GHG emissions	7, 13
	❷ Products, components, and materials used for the creation of new energy sources	7, 13
	❸ Using biomass-derived raw materials	12, 13
	❹ Contributing to adapting to the impacts of climate change	13
Reducing Environmental Impact	❺ Contributing to reducing waste and toxic substances, and contributing to reducing environmental impact	12
	❻ Contributing to reducing environmental impact in food production	2, 12
Effective Use of Resources	❼ Contributing to recycling and energy-saving	12
	❽ Contributing to the efficient use of water	6
Others	❾ Other contributions to building a sustainable society	(Depends on the project)

Note: Regarding the designation requirements and responses to the SDGs, if multiple goals are listed, the product or technology may not address certain aspects of the goals.

Promoting Sustainability

■ Designation Requirements by Category/Actual Environmental Contribution (FY2021)



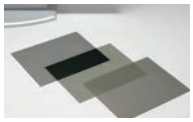
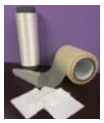
Sumitomo Chemical was awarded the Grand Prize in the 52nd Annual JCIA Technology Awards (May 2020) from the Japan Chemical Industry Association for its technology that enabled "the development and commercialization of a process for manufacturing propylene oxide (PO) using cumene, which has low environmental impact and is free from co-products" and in the 54th Annual Awards (May 2022) for its technology that enabled "the development and commercialization of a process for manufacturing sodium using hydrochloric (HCl) acid, which has low environmental impact." In addition, Sumika Chemical Analysis Service, Ltd. was awarded the 21st Annual Environmental Technology Award (April 2021) from the Kinka Chemical Society for its "simple sampling technology for hydrogen quality evaluation for fuel-cell vehicles (FCVs)." These technologies have been certified as Sumika Sustainable Solutions.

Sumika Sustainable Solutions

https://www.sumitomo-chem.co.jp/english/sustainability/management/promotion/sss/

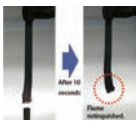
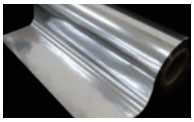
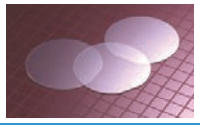
Promoting Sustainability

"Sumika Sustainable Solutions" Main Products and Technologies

Solutions	◆Features / ●Contributions	Contributions to SDGs
Addressing Climate Change		
PERVIO™, lithium-ion secondary battery separator 	◆A material capable of providing high-capacity lithium-ion secondary batteries ●Contributing to the expanded use of next-generation vehicles, such as electric vehicles	
SUMIKAEXCEL™, polyethersulfone 	◆An additive for carbon-fiber reinforced plastics used in aircraft ●Making aircraft lighter and hence fuel-efficient	
UV curing for polarizer lamination 	◆A polarizing film for displays ●Achieves substantial energy saving in manufacturing compared with conventional methods	
SUMIMET™, feed additive methionine 	◆Adding methionine to poultry feed improves the balance of amino acids in feed ●Reduced nitrogen in poultry excrement, a cause for greenhouse gas emissions	
Olyset™ Net, anti-malarial long-lasting insecticidal mosquito net 	◆A mosquito net developed for controlling malaria-carrying mosquitoes ●Helping reduce malaria infection	
Carbon dioxide separation and recovery technology (Sumitomo Joint Electric Power Co., Ltd.) 	◆Separates and recovers CO_2 from gases exhausted from a thermal power station, which is then used as an auxiliary material for chemicals production at another manufacturing plant of Sumitomo Chemical's Ehime Works.* * Technology for CO_2 separation and recovery is a proprietary technology of Nippon Steel Engineering Co., Ltd. ●Contributes to reducing CO_2 emissions.	
Heat storage plastic material HEATORAGE™ COMFORMER™ 	◆These heat storage plastic materials are designed to absorb and release heat in the specific temperature range of between 20°C and 50°C. ●Using this between insulation layers in the roofs of residences reduces the cooling burden in summer.	
Cathode materials and their precursors for lithium-ion secondary batteries (Battery Materials Division / Tanaka Chemical Corporation) 	◆These cathode materials and precursors significantly improve the performance of lithium-ion secondary batteries. ●Switching from gasoline cars to hybrid cars will help enhance fuel efficiency	
Thermofil™ HP, glass fiber-reinforced polypropylene (Sumika Polymer Compounds Europe Ltd.) 	◆Glass fiber-reinforced polypropylene that can be used to replace aluminum parts ●Emits less GHG during production than aluminum parts	
Simple sampling technology for hydrogen quality evaluation for fuel-cell vehicles (FCVs) (Sumika Chemical Analysis Service, Ltd.) 	◆A better analysis method for evaluating the quality of hydrogen gas ●Enables extraction of gas sample at low pressure, thereby improving safety during shipping and reducing GHG emissions	
Phosphoric acid-free silver etchant (DONGWOO FINE-CHEM Co., Ltd.) 	◆Developed phosphoric acid-free etchant is produced using biomass-derived raw material ●Uses biomass-derived citric acid as a raw material. Resilient to phosphorous supply shortages because it does not use phosphoric acid	
Lightweight packaging containers for crop protection chemicals (Sumitomo Chemical Latin America) 	◆Reduce the weight of HDPE containers used to ship crop protection chemicals ●Reduces the amount of HDPE materials used in manufacturing and thus GHG emissions while resulting in lighter containers	

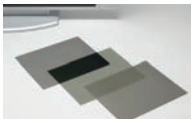
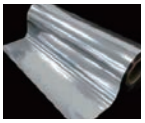
Promoting Sustainability

"Sumika Sustainable Solutions" Main Products and Technologies

Solutions	◆Features / ●Contributions	Contributions to SDGs
Reducing Environmental Impact		
Halogen-free flame-retardant elastomer 	◆This elastomer is used in railway and construction materials. It does not contain halogen but is as flame retardant as a halogen-based material. ●It helps limit emissions of hazardous gases while burning.	
High-purity alumina (for use in automotive O_2 / NOx sensors) 	◆This material is used as insulation for the high-performance sensors that are needed to keep automotive emissions of NOx and other gases under mandated levels. ●It helps reduce greenhouse gas emissions.	
Biorationals (Microbial pesticides, plant growth regulators, biorational rhizosphere microbial agricultural materials) 	◆Use of active ingredients derived from naturally occurring substances ●Contributes to the promotion of sustainable agriculture and the stable supply of safe and secure food	
Binder for lithium-ion secondary batteries (Nippon A&L Inc.) 	◆Use of water as the dispersion medium. ●This product reduces the consumption of organic solvents in the manufacture of electrodes for lithium-ion secondary batteries	
Temperature-sensitive film "「調光®」(CHO-CO)" (SanTerra Co., Ltd.) 	◆A temperature-sensitive plastic film for greenhouse use that stays transparent and allows sunlight to enter at low temperatures while becoming opaque and scattering the sunlight high temperatures. ●Contributing to the reduction of heat damage to produce	
Cobalt-coated nickel Hydroxide positive Electrode material (Tanaka Chemical Corporation) 	◆Making the designing of high-output nickel hydride batteries possible ●It contributes to widespread use of environmentally friendly vehicles. Cobalt usage can also be reduced	
Polypropylene materials for aluminum metallization film (The Polyolefin Company (Singapore) Pte. Ltd.) 	◆Polypropylene materials for aluminum metallization film, used for food packaging to extend shelf life. ●Helping extend the shelf life of food products	
TPEs for non-painted airbag covers 	◆These TPEs are for airbag covers and offer a superb, high-quality appearance even when not painted. ●These TPEs reduce the generation of VOCs during painting, which occurs mainly during the drying process.	
Manufacturing technology for fluorene derivatives (Taoka Chemical Co., Ltd.) 	◆A better method for manufacturing fluorene derivatives, the raw materials for plastic lenses ●Uses a new manufacturing method to help lower GHG emissions, water use, and water emissions	
GaN substrates for laser light source projectors (SCIOCS COMPANY LIMITED) 	◆Developed GaN substrates, to operate LED laser light used to replace mercury lamps in projectors ●Reduces GHG emissions by allowing replacement of mercury lamps with LED laser light	

Promoting Sustainability

"Sumika Sustainable Solutions" Main Products and Technologies

Solutions	◆Features / ●Contributions	Contributions to SDGs
Effective Use of Resources		
SUMIKATHENE™EP, EXCELLEN™GMH, polyethylene used for refill pouches 	◆For detergent packaging, pouch bags made of this polyethylene material have easy tear-open spouts for easy refilling of dispensers ●Producing less plastic waste than rigid bottles	
Multi-purpose polypropylene sheet (Sumika Plastech Co., Ltd.) 	◆Being free from paper dust concern and desirable from a viewpoint of re-use, it is used for food containers and delivery materials for electronic parts. ●Contributing to reducing greenhouse gas emissions.	
Effluent treatment technology using a deammoniation tower 	◆Removes and recovers ammonia in effluent and recycles it for re-use. ●Contributes to reducing nitrogen discharge from a manufacturing plant.	
Transfer technology used in the manufacture of flexible touch sensors (Dongwoo Fine-Chem Co., Ltd.) 	◆Manufacturing touch sensors for use in foldable smartphones without the use of adhesive film ●Resource savings and reductions in power consumption have been achieved	
MISTACE S, MISTACE S NIAGARA (Sumika Agrotech Co., Ltd.) 	◆Irrigation tubes that enable uniform and efficient water spray in greenhouse cultivation. ●Enhances a great water saving effect.	
Prevention of iodine oxidation in polarizing films manufacturing process 	◆A technology that prevents the oxidation of iodine through optical control, used in the polarizing film manufacturing process. ●Contributes to resource saving and environmental impact mitigation by reducing the use of chemicals.	
Polymer OLED materials 	◆A coating method for producing polymer OLED materials, replacing conventional deposition method ●Reduces GHG emissions by increasing usage efficiency of OLED materials during manufacturing	
Fungicide filling and maintenance system technology (Pace International) 	◆A fungicide dilution preparation system used for post-harvest fungicide treatment ●Over 50% reduction in water usage from conventional methods	
Others		
Polypropylene material for biaxially stretched films for capacitors (The Polyolefin Company (Singapore) Pte. Ltd.) 	◆Polypropylene material for capacitors that, by controlling at an ultra-low level, metal content (Ash) from catalysts residue ●Reduces GHG emissions during manufacturing by enabling a switch from conventional PET film to PP film	
Banana Bag (TotalFlex™ 0.4) (Sumitomo Chemical Latin America) 	◆Developed a protective banana bag ●Eliminates the need to spray leaves with insecticide,reducing chemical exposure of producers to insecticides and improving the working environment.	

Promoting Sustainability

Participation: Officer and Employee Engagement Project to Promote Sustainability

The Sumitomo Chemical Group Global Project

To accelerate the promotion of sustainability, the Sumitomo Chemical Group considers it essential that all executives and employees share the Corporate Philosophy, have a deep understanding of sustainability, and work together to carry out our initiatives. As an effort to engage all officers and employees and promote this "participation by all" principle, we have run the Global Project since 2014. We set up a dedicated website for the project. The project is intended to spur action to promote sustainability in line with the annual shared themes within a set period of time.

■ The Global Project to Date

2014	2015	2016 – 2018	2019 – 2021
	Working as a Unified Group	Understanding the SDGs through Our Business	Accelerating the Promotion of Sustainability
			
School Aid for Africa	Centennial Give Back	Our Sustainability Tree	For a Sustainable Future — *JIRI RITA* —

The Sumitomo Chemical Group (SCG) Global Project in the past

https://www.sumitomo-chem.co.jp/english/sustainability/management/promotion/globalproject/archive/

FY2022 Project

In the 2022 project, we envision the future world in 2030 and what we Sumitomo Chemical Group want to be, and think about what we should do and what we want to do as individuals or as departments, companies, and the Sumitomo Chemical Group to realize these goals. By talking about these thoughts (in posts), we help accelerate understanding and implementation of "*Jiri-Rita Koushi-Ichinyo* (Our businesses must benefit society at large, not just our own interests)" with the aim of creating a reinforcing cycle of inspiration among Group employees as well as between top management and employees.

Title: Shape Our Sustainable Future with *JIRI RITA*

Concept: Let's post and shape our world!
Share your vision for tomorrow and together let's create a sustainable future!

Points:
(1) Share your vision for the future with colleagues around the world using an image
Every person's post will become part of the mosaic artwork!
(2) Send positive comments and supportive messages to colleagues and expand the circle of empathy within the Sumitomo Chemical Group beyond countries and regions
(3) Create a mosaic artwork with the posts from around the world

Promoting Sustainability

Key Visual:

Based on the Sumitomo's Business Philosophy encapsulated in the phrase "*Jiri-Rita Koushi-Ichinyo*," the key visual encourages the global Sumitomo Chemical Group to come together to create a sustainable future that is rich, fulfilling, and comfortable through the Group's products and technologies.

Implementation period: April 11–June 30, 2022

Participation method: Use of dedicated website

Sumitomo Chemical's New Initiatives

Sumika ★ Stories

For the purpose of instilling sustainability among young employees, we began Sumika ★ Stories, a new series of events held in person and online, from November 2021.

For the Sumika ★ Stories, we tell "stories about contributing to society through our business" using examples of successful contributions made through technologies and initiatives related to Sumitomo Chemical's unique style of sustainability undertaken with a sense of purpose and passion. We aim to continue creating Sumitomo Chemical stories with an eye to the future, fueled by awareness and a sense of accomplishment gained through these events.

In fiscal 2021, we held the event twice. Participants offered such feedback as "I liked the free-form style and relaxed atmosphere" and "I want to keep thinking about how I can grow and change on an individual level with the Company." Going forward, we plan to hold four to five events every year.

Concept

Points:

(1) Stories Unique to Sumitomo Chemical

We use cases related to the Group's sustainability, such as SSS (refer to page 32), as topics and get speakers to talk about case overviews, dreams, ideas and other private matters, bolstering participants' awareness, pride, and sense of accomplishment.

(2) Facilitation Centered on Young People

To realize a sustainable society, going forward, young employees, who will be central to leading the way, will facilitate fun conversations in a casual atmosphere with the support of veteran employees.

(3) Interactive

We are using a real-time feedback system as a form of two-way communication. This expands our scope of empathy by enabling employees participating on-site and those participating online to immediately share their ideas.

Use of the real-time feedback system

Participation in Initiatives

The Sumitomo Chemical Group lists active participation in global initiatives as one of its Basic Principles for Promoting Sustainability. To promote sustainability (i.e. help realize a sustainable society through business and achieve our sustained growth), we are actively participating in initiatives because we consider it important to work with a broad range of organizations, including various international organizations, national and local governments, companies, and industry groups.

Initiative Participation Record

Our UN Global Compact Activities

The Sumitomo Chemical Group joined the UN Global Compact (UNGC) in January 2005, as the first Japanese chemical company. The UNGC is a voluntary initiative that encourages participating companies and organizations to help create a global framework for realizing sustainable growth and take action as a good member of society by demonstrating responsible and creative leadership. It outlines ten principles related to protecting human rights, abolishing unfair labor practices, adapting to the environment, and preventing corruption, and over 17,000 companies and organizations have signed on. We are one of 37 Global Compact LEAD companies in the world, recognized for our constant engagement with the UNGC and our business activities that comply with the UNGC's ten principles.

In fiscal 2021, we participated in two action platforms: "Climate Ambition" and "Peace, Justice and Strong Institutions."

In addition, at the September 2020 UN General Assembly, which coincided with the 75th anniversary of the United Nations and the 20th anniversary of the UNGC, we signed onto the UNGC's A Statement from Business Leaders for Renewed Global Cooperation. The purpose of this statement was for the world's business leaders to again emphasize the importance of international cooperation and global governance. The statement was presented to the UN Secretary-General along with a list of CEOs who signed on to it.

Gist of a Statement from Business Leaders for Renewed Global Cooperation

- This year, coinciding with the 75th anniversary of the United Nations, the world is facing a range of crises, including the COVID-19 pandemic, climate change, and economic uncertainty.
- Against this backdrop, we as global business leaders commit to demonstrate leadership based on ethics, practice good corporate governance, and take measures to respect human rights so as to correct structural inequalities and injustices, by working together with all stakeholders in the spirit of renewed global cooperation.
- In making this commitment, we call on governments to protect human rights, ensure peace and security, and uphold the rule of law in order to ensure the prosperity of businesses, individuals and societies; to contribute to the welfare of people and the planet by strengthening international cooperation and national legal frameworks; and to enhance multilateralism and global governance so as to fight corruption, build resilience, and achieve the SDGs.

A Statement from Business Leaders for Renewed Global Cooperation on the UNGC website

https://ungc-communications-assets.s3.amazonaws.com/docs/publications/UN75_UnitingBusinessStatement.pdf

Participation in Initiatives

The Ten Principles of the UN Global Compact

Human Rights	Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights; and Principle 2: make sure that they are not complicit in human rights abuses.
Labour	Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining; Principle 4: the elimination of all forms of forced and compulsory labour; Principle 5: the effective abolition of child labour; and Principle 6: the elimination of discrimination in respect of employment and occupation.
Environment	Principle 7: Businesses should support a precautionary approach to environmental challenges; Principle 8: undertake initiatives to promote greater environmental responsibility; and Principle 9: encourage the development and diffusion of environmentally friendly technologies.
Anti-Corruption	Principle10: Businesses should work against corruption in all its forms, including extortion and bribery.

Global Compact LEAD 2021 PARTICIPANT

The Ten Principles of the UN Global Compact (from the Official Website of the UN Global Compact)

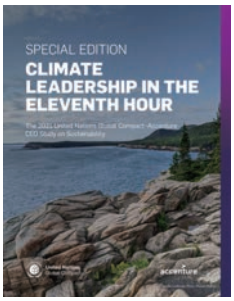
https://www.unglobalcompact.org/what-is-gc/mission/principles

LEAD Company Certification Standards

- Participate in at least two UNGC action platforms, contribute to UNGC activities on an ongoing basis, and clearly demonstrate leadership in line with the Ten Principles and Global Goals
- Release an annual sustainability report detailing the progress of initiatives for the Ten Principles

President Iwata's Remarks Included in the UN Global Compact's CEO Study 2021 (released November 10, 2021)

Keiichi Iwata, Representative Director & President of Sumitomo Chemical Company, Limited—whose company developed the Sumitomo Chemical Commitments to the Conservation of Biodiversity as part of its core strategy—remarks, "biodiversity is a more extensive, difficult, and far-reaching issue than climate change. Biodiversity and business growth must go hand-in-hand."



UNGC, the UN Global Compact's CEO Study 2021, page 27

https://www.unglobalcompact.org/library/5976

Participation in Initiatives

Participation in the WBCSD*1

The Sumitomo Chemical Group joined the World Business Council for Sustainable Development (WBCSD) in 2006 and has participated primarily in activities related to addressing climate change.

Recently, we have broadened the scope of our activities while strengthening our alliances with member companies in the chemical sector. Specifically, we participated in formulating the Chemical Sector SDG Roadmap, which organizes sustainability-related fields and issues pertaining to the chemical industry using the SDG framework with the aim of realizing sustainability.

WBCSD | Chemical Sector SDG Roadmap

https://www.wbcsd.org/Programs/People-and-Society/Sustainable-Development-Goals/Resources/Chemical-Sector-SDG-Roadmap

In addition, we participated in the formulation of the WBCSD TCFD Chemical Sector Guidance. The guidance explains how to make effective disclosures using the frameworks of the TCFD recommendations for the chemical sector and details the fundamental elements needed to analyze scenarios.

WBCSD | TCFD Chemical Sector Preparer Forum Report

https://www.wbcsd.org/Programs/Redefining-Value/TCFD/Resources/Climate-related-financial-disclosure-by-chemical-sector-companies-Implementing-the-TCFD-recommendations

*1 WBCSD:
This organization was established to advocate for business sector views on sustainable development. The group provides advice to help promote sustainability at international conferences, such as the World Economic Forum, the B20 Summit, and the Conference of the Parties of the UNFCCC.

Initiatives for TCFD*2 Recommendations

The Sumitomo Chemical Group uses the framework of the Task Force on Climate-related Financial Disclosures (TCFD) recommendations for disclosing information on addressing climate change and actively communicating our efforts, with the recognition that such disclosures reflect the demands of the current era. In addition, by participating in initiatives related to the TCFD recommendations amid this situation, we are collaborating on the creation of guidance through dialogue between investors and companies while learning best practices.

Our Efforts through Participation in External Initiatives

June 2017	Supported TCFD recommendations concurrently with their publication
From August to December 2018	Joined in the TCFD Study Group led by the Ministry of Economy, Trade and Industry (METI) This group studied the way in which Japanese companies disclose information to evaluate their strengths. December 2018: METI issued TCFD guidance
Since December 2018	Joined WBCSD TCFD Preparer Forum July 2019: WBCSD issued TCFD chemical sector guidance
Since May 2019	Joined the TCFD consortium established by Japanese industrial and financial communities In October 2019 at the TCFD Summit, Chairman Tokura introduced the Company's initiatives to seize climate-related opportunities. October 2019: TCFD consortium announced green investment guidance July 2020: TCFD consortium released TCFD Guidance 2.0 At the TCFD Summit in October 2020, the general manager of Sumitomo Chemical's Corporate Communications Department, Toshihiro Yamauchi, introduced the Company's initiatives to address climate change.

*2 TCFD:
This privately helmed special team was established by the Financial Stability Board, which comprises financial agencies of major countries, at the request of the G20 finance ministers and central bank governors. The task force encourages companies to make disclosures related to climate change.

Participation in Initiatives

Participation in the Forum for the Taskforce on Nature-related Financial Disclosures (TNFD)

Sumitomo Chemical further promotes ecosystem conservation and the sustainable use of natural capital.* To enhance the disclosure of nature-related information, we support the vision of the Taskforce on Nature-related Financial Disclosures (TNFD) and participate in the TNFD Forum, which is network comprising organizations and companies that have expertise related mainly to nature and finance in support of said activities. By participating in this forum, we work to further enhance nature-related disclosures.

* Capital formed by nature, including forests, soil, water, air, underground resources, and biological resources. Natural capital is a type of capital that is essential to supporting people's lives and the infrastructure of companies.

An International Alliance to Solve the Plastic Waste Problem Joining the Alliance to End Plastic Waste (AEPW)

The AEPW is an international alliance launched in January 2019 working to solve the plastic waste problem. Global companies associated with the plastic value chain have joined the alliance.

As a member company, Sumitomo Chemical financially supports AEPW's activities and also engages in the selection of projects undertaken in places around the world, verification of sustainability, and evaluation of impacts. In addition, we work with others through the AEPW framework on initiatives that would be difficult to undertake alone, such as projects to upgrade trash collection infrastructure in countries around the globe with high plastic waste emissions.

In addition, Sumitomo Chemical is deeply involved in activities that encourage solutions to the plastic waste problem through Japanese organizations via AEPW. We proactively participate in initiatives that discover and support startups that work to solve problem and webinars that consider what Japanese industries, government, and academia should do to solve the plastic waste problem with reference to successful examples of projects promoted around the world by AEPW.

AEPW website

https://endplasticwaste.org/

A Domestic Alliance to Solve the Marine Plastic Waste Problem Joining the Japan Clean Ocean Material Alliance (CLOMA)

CLOMA is a domestic alliance launched in January 2019 working to solve the marine plastic waste problem. By fostering cross-industry cooperation related to the plastic value chain, we are promoting activities to accelerate innovation as well as encouraging the sustainable use of plastic products and the development and adoption of alternative materials.

The Company is helping out with the planning of pilot tests that aim to improve the material recycling rate. In addition, to help solve the marine plastic problem through international cooperation, we are working with other members to offer solutions from Japan in light of the current state of Indonesia's waste treatment situation and the policies of the Indonesian government.

CLOMA website

https://cloma.net/english/

Participation in Initiatives

Participation in Japan Partnership for Circular Economy (J4CE)

The J4CE was founded in March 2021 for the purpose of strengthening public and private partnerships, with the aim of further fostering understanding of the circular economy among a wide range of stakeholders, including domestic companies, and promoting initiatives. The organization collects examples of initiatives related to advanced circular economy, disseminates and shares data on the cases in Japan and overseas, shares information and forms networks related to a circular economy, and establishes places for dialogues to promote a circular economy.

Sumitomo Chemical introduces its initiatives to realize a circular economy, including plastic chemical recycling, on the J4CE website. In addition, we participated in an online public-private dialogue and discussed issues to promoting a circular economy and potential solutions.

Japan Partnership for Circular Economy

https://j4ce.env.go.jp/en

J4CE, SUMITOMO CHEMICAL Co., Ltd.'s cases

https://j4ce.env.go.jp/en/member/048

Our ICCA* Activities

The Sumitomo Chemical Group participated in the Energy and Climate Change Leadership Group of the International Council of Chemical Associations (ICCA). We contributed to joint international research related to helping reduce GHG emissions through chemical products and technologies. We also worked to promote the spread of the results of the research.

In addition, we also participate in the chemical Substance Policy and Health Leadership Group. We cooperate in conducting surveys related to regulatory trends around the world and mechanisms for relaying information on chemical substances contained in products. We also participate in working groups related to the harmonization with chemical substance categorization being introduced in Asian countries. Furthermore, we participated in a working group on plastic waste problems and in discussions based on sound science related to problems surrounding microplastics and plastic substitutes.

* ICCA:
This organization was established to harmonize the strategies of chemical industry associations and councils around the world through dialogue and cooperation. As the principal representative of the chemical industry, ICCA presents opinions to international organizations about key topics shared by its members and various activities of the chemical industry.

Participating in the Stakeholder Engagement Program hosted by Caux Round Table Japan

P.176 **Respect for Human Rights:** Engaging in Human Rights Initiatives

Participation in Initiatives

Our WEPs Activities

The "Women's Empowerment Principles" (WEPs) are seven principles formulated collaboratively in March 2010 by the United Nations Global Compact (UNGC), which is a voluntary commitment framework between companies and the UN, and the United Nations Development Fund for Women (UNIFEM, now UN Women). With companies taking proactive steps and positioning gender equality and female empowerment at the core of management, the expectation is that the WEPs will be applied internationally to promote the economic empowerment of women.

The Women's Empowerment Principles

(1) Establish high-level corporate leadership for gender equality
(2) Treat all women and men fairly at work – respect and support human rights and nondiscrimination
(3) Ensure the health, safety and well-being of all women and men workers
(4) Promote education, training and professional development for women
(5) Implement enterprise development, supply chain and marketing practices that empower women
(6) Promote equality through community initiatives and advocacy
(7) Measure and publicly report on progress to achieve gender equality

In 2013, the Sumitomo Chemical Group (under the President's name) endorsed the "Women's Empowerment Principles" (WEPs). Since 2015, we have participated in the annual WEPs forum held annually at the UN Headquarters in New York.

Furthermore, we helped found the WEPs Subcommittee in the Global Compact Network Japan (GCNJ (UNGC's local network)) and acted as a leading company from fiscal 2016 to fiscal 2021. Since fiscal 2017, we have conducted activities and messaging to support the specific initiatives of each participating company, referencing the seven WEPs to address issues related to empowering women in the workplace. Through these efforts, we are actively enhancing the international competitiveness of GCNJ signatory companies and thereby helping raise the bar for gender equality in Japanese society.

P.195 **Human Resources Management:** Promoting the Active Advancement of Women

GCNJ's WEPs Subcommittee Meetings Attended by the Company: Fiscal 2021 Activities

Meeting	Date	Theme	Lecturer
1	July 28, 2021 (Wednesday)	Global issues addressed by international society and latest trends in WEPs	Kae Ishikawa Head of Office at UN Women Japan Liaison Office
2	October 1, 2021 (Friday)	The L'Oréal Group's initiatives	Tomoko Kusuda VP Corporate Affairs & Engagement, L'Oréal Japan
3	November 26, 2021 (Friday)	The amended Child Care and Family Care Leave Act, men taking childcare leave, and women's empowerment	Manabu Tsukagoshi Chief consultant, Diversity & Work-Life Balance Promotion Department, Toray Corporate Business Research Inc.
4	February 18, 2022 (Friday)	Value creation from idea to reality	China Toyoshima Representative Director, Aill, Inc.
5	April 22, 2022 (Friday)	Career awareness among millennial couples with children	Mana Yamaya Senior Researcher, Japan Institute for Women's Empowerment & Diversity Management, and other positions

Note: Conducted online due to the COVID-19 pandemic

Communication with Stakeholders

Principle 4 of the Sumitomo Chemical Group's Basic Principles for Promoting Sustainability states, "We are committed to work closely with various stakeholders through promoting spontaneous disclosure of information and open dialogue on the targets of our sustainability promotion initiatives and the progress of their implementation." Our efforts to communicate with shareholders based on this principle fall into the following two categories.

(1) Disclosures

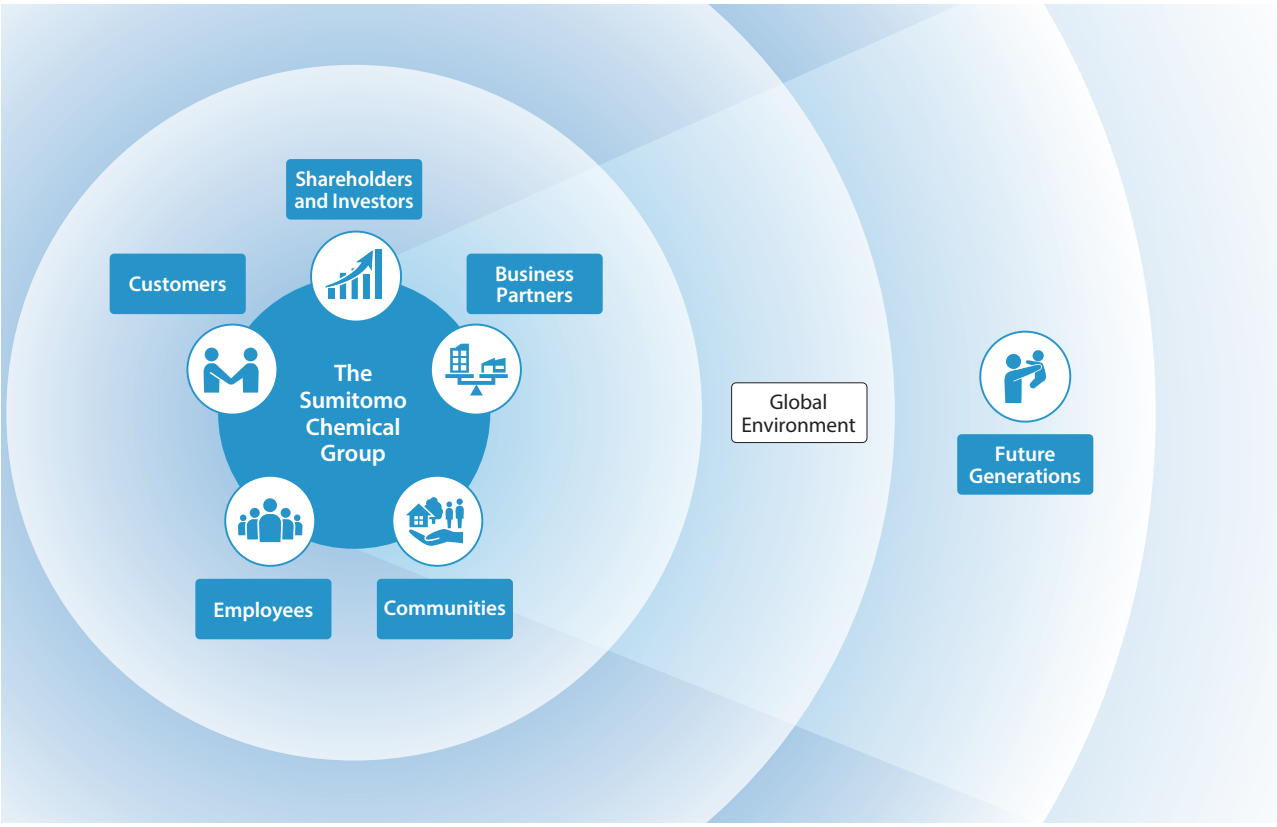
We disclose necessary information and report on the progress of our various initiatives. We also make an analysis of the needs of society as appropriate and review external assessment results in order to improve our communication and ensure proper disclosure.

(2) Dialogues

In addition to proactive disclosure, we actively engage in two-way communication or dialogue with various stakeholders. Based on the feedback provided in dialogues, we work to improve our communication and implement new initiatives.

We will continue to fulfill our responsibility to all stakeholders on the two fronts of disclosure and dialogue by enhancing our communication through a variety of efforts. We will also align our future generations with a sustainable society, paying attention to the international community and global environment.

■ Stakeholder Engagement



Communication with Stakeholders

Opportunities to Communicate with Stakeholders

Stakeholders	Sumitomo Chemical Group's Responsibility	Measures
Shareholders and Investors	We communicate regularly, effectively and strategically with shareholders and investors with regard to management policies, business strategies, and earnings trends. We fulfill our accountability to shareholders to maintain and improve the market's trust in the Sumitomo Chemical Group, while also promoting the market's accurate understanding of the Company with a view to a fair market valuation of the Company's shares and the improvement of our corporate value.	• General meetings of shareholders • Corporate strategy briefing meetings and business strategy briefing meetings • Conference calls • Briefing meetings for individual investors • Interviews with investors and analysts • Investor relations publications, including *Annual Report*, *Investors' Handbook* and *Sustainability Data Book* • Disclosure via the Company's website
Customers	We supply high-quality products and services that satisfy customers' needs and ensure safety in use to establish long-term relations with customers that are built on trust.	• Customer support including communication in sales activities and quality assurance • Providing information via the Company's website and other communication media • Customer support by the customer support center
Business Partners	We are committed to building mutually-beneficial sound relations with business partners based on our Basic Procurement Principles. We also conduct fair, equitable and transparent transactions, while also encouraging our business partners to engage in sustainability efforts, in order to promote sustainable procurement across our supply chain.	• Communication through purchasing activities • Monitoring and providing feedback by using our *Sustainable Procurement Guidebook* and *check sheets* • A dedicated team to answer inquiries from business partners
Employees	We are committed to ensuring employees' health and respecting employee diversity, while also devoting constant effort to human resource development and the improvement of a workplace environment so that individual employees can realize their full potential. The Company is also committed to maintaining its good relationship with the Sumitomo Chemical labor union built on mutual understanding and trust.	• Central labor-management meetings and operation-site labor-management meetings • Labor-management committee for the promotion of work-life balance • Various training programs • Communication via the Company's internal newsletters and intranet
Communities	We work to help solve various global issues through cooperation on international initiatives as well as to achieve mutual prosperity with local communities by holding two-way dialogues and enhancing disclosure.	• Participating in international initiatives (Including UNGC, WBCSD and ICCA) • Providing information mainly through the Company's website, *Annual Report*, *Investors' Handbook*, *Sustainability Data Book* and Social media • Holding dialogues with local communities • Social Contribution Activities (Including Support for Education in Africa, Holding Science workshop classes and Local cleanup activities)

Communication with Stakeholders

External Evaluation

FTSE4Good Index Series

This index, designed by FTSE Russell, a global index provider, consists of companies demonstrating strong Environmental, Social and Governance (ESG) practices selected from among all leading global companies.

FTSE Blossom Japan Index

This is an index designed by FTSE Russell, a global index provider. It consists of selected Japanese companies demonstrating strong ESG practices. FTSE selects these companies from among the stocks constituting the FTSE Japan Index, and the index is designed as an industry neutral benchmark that reflects the distribution of industries in the Japanese stock market.

FTSE Blossom Japan Sector Relative Index

This is an index designed by FTSE Russell, a global index provider. It is designed as a sector-neutral benchmark that reflects the performance of small, mid and large cap companies demonstrating strong ESG practices in Japan. In addition, the index is designed to support the transition to a low carbon economy by evaluating companies' climate governance activities aligned with the Taskforce on Climate-related Financial Disclosures' recommendations and carbon emissions intensity to determine stock eligibility for index inclusion. The index combines data and analysis from FTSE Russell and the Transition Pathway Initiative (TPI).

MSCI Japan ESG Select Leaders Index

This index is designed by MSCI, a provider of various tools to support institutional investors around the world in their investment decision making. It selects companies demonstrating strong ESG practices from component issues of the MSCI Japan IMI Top 500 Index.

MSCI Japan Empowering Women Index (WIN)

This index is designed by MSCI, a provider of various tools to support institutional investors around the world in their investment decision making. It selects companies demonstrating strong practices in promoting women's participation and advancement.

S&P/JPX Carbon Efficient Index

This is an index designed by S&P Dow Jones Indices and the Tokyo Stock Exchange. It is designed to select TOPIX stocks so that companies that disclose carbon efficiency and environmental data constitute a high proportion of the index. Our decile rating is 4, and the disclosure status is "disclosed."

Gold Medal in EcoVadis Sustainability Assessment

Sumitomo Chemical has received a Gold medal in a sustainability assessment by EcoVadis for the third consecutive year, an award recognizing companies whose performance is in the top 5% of all companies rated. Established in 2007, EcoVadis is a performance rating agency focused on corporate environmental, social, and governance (ESG) practices, working to help companies improve their environmental and social practices through their global supply chains. The agency has assessed about 90,000 companies from 160 countries across 200 business sectors in terms of corporate policies, initiatives, and achievements in four areas: Environment, Labor & Human Rights, Ethics, and Sustainable Procurement.

CDP "Climate Change A List 2021", CDP "Water Security A List 2021"

Sumitomo Chemical has been named on CDP's "Climate Change A List 2021" and "Water Security A List 2021" as a company recognized for its particularly excellent activities to address climate change and water security, including target setting, actions and transparency. The Company has been named on the Climate A list, the highest rating given by CDP, for four consecutive years, and on the Water Security A list for the second time.

Established in 2000, CDP (formerly the Carbon Disclosure Project) is an international non-governmental organization that incentivizes companies and governments to become leaders in reducing greenhouse gas emissions, managing water resources, and conserving forests. On behalf of institutional investors around the world, CDP collects information about environmental efforts of leading companies and scores them. Of 13,200 companies that disclosed their environmental efforts to CDP, 57 global companies and 18 Japanese companies received the highest ratings in terms of actions for both climate change and water security.

A Minister of the Environment Award (Silver Award) in the Environmentally Sustainable Corporations Section the Ministry of the Environment's ESG Finance Awards Japan

Sumitomo Chemical has been awarded the Minister of the Environment Award (Silver Award) in the Environmentally Sustainable Corporations section of the third ESG Finance Awards Japan, organized by Japan's Ministry of the Environment. This is the first time the Company has received this award.

ESG Finance Awards Japan is a program founded by the Ministry of the Environment in 2019 to promote the dissemination and growth of ESG finance. The aim of the award in the Environmentally Sustainable Corporations section is to evaluate those companies that have incorporated material environment-related opportunities and risks into their corporate strategy with the intention of increasing their corporate value while also exerting an outstanding positive impact on the environment and society, and to share the results of said evaluation broadly throughout society.

<Certification>

2022 Health and Productivity Management Awards – White 500

P.203 Healthcare

Next-generation Kurumin certification mark

P.190 Work-Life Balance

Acquired registration under the Whistleblowing Compliance Management System

P.83 Compliance

The Sumitomo Chemical Group's Contribution to the SDGs

We at the Sumitomo Chemical Group are committed to contribute through our business to establishing a sustainable society while also achieving our sustained growth. We have set out our guiding principles for efforts toward these goals in the Basic Principles for Promoting Sustainability. In these principles, we affirm our commitment to helping resolve critical issues facing the international community.

Sumitomo Chemical's Sustainability Efforts and the SDGs

In Principle 2 of the Basic Principles for Promoting Sustainability, we express the Group's commitment to abiding by international rules related to sustainability and helping resolve vital issues facing the international community. In particular, we pledge to promote efforts toward achieving the United Nations Sustainable Development Goals (SDGs).

P.14 Basic Principles for Promoting Sustainability

When identifying the material issues to be addressed as management priorities, we referred to the SDGs as a guideline for surveying social needs and issues. In addition, with the aim of aligning our efforts with the contribution to the achievement of the SDGs, we have set the key performance indicators (KPIs) for our material issues for social value creation based on the SDG targets, which comprises 169 items.

P.16 What Sumitomo Chemical Group Strives to Be
P.17 Material Issues to Be Addressed as Management Priorities
P.19 Key Performance Indicator (KPI) for Material Issues

Specific SDGs for Each Business Sector to Focus on

The Sumitomo Chemical Group is working on various efforts in order to help realize a sustainable society through innovation and business and by leveraging its strengths as a diversified chemical company.

Business Sector	Primary Focus SDGs
Essential Chemicals & Plastics	7 AFFORDABLE AND CLEAN ENERGY; 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE; 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
Energy & Functional Materials	7 AFFORDABLE AND CLEAN ENERGY; 8 DECENT WORK AND ECONOMIC GROWTH; 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE; 13 CLIMATE ACTION
IT-related Chemicals	8 DECENT WORK AND ECONOMIC GROWTH; 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE; 11 SUSTAINABLE CITIES AND COMMUNITIES; 12 RESPONSIBLE CONSUMPTION AND PRODUCTION; 17 PARTNERSHIPS FOR THE GOALS
Health & Crop Sciences	2 ZERO HUNGER; 3 GOOD HEALTH AND WELL-BEING; 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE; 12 RESPONSIBLE CONSUMPTION AND PRODUCTION; 13 CLIMATE ACTION; 17 PARTNERSHIPS FOR THE GOALS
Pharmaceuticals	3 GOOD HEALTH AND WELL-BEING; 8 DECENT WORK AND ECONOMIC GROWTH; 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE; 12 RESPONSIBLE CONSUMPTION AND PRODUCTION; 16 PEACE, JUSTICE AND STRONG INSTITUTIONS; 17 PARTNERSHIPS FOR THE GOALS

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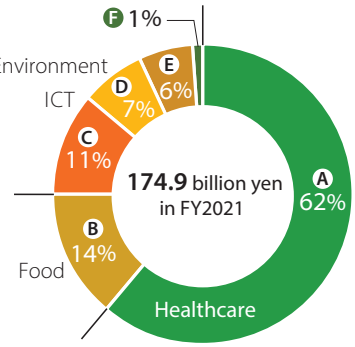
https://www.sumitomo-chem.co.jp/english/ir/library/annual_report/files/docs/scr2022_23e.pdf

The Sumitomo Chemical Group's Contribution to the SDGs

Breakdown of R&D Expenditures by SDGs and Examples of Themes

The Sustainable Development Goals (SDGs) formulated by the United Nations in 2015 set forth 17 goals, including Green Transformation (GX) themes, such as climate change, biodiversity, health promotion etc., that our company aims to achieve. We are investing R&D funds in themes related to the various SDGs, as shown in the table below. Through the innovations generated from these efforts, we will transform our business portfolio and realize "*Jiri-Rita Koushi-Ichinyo*" through GX.



13 CLIMATE ACTION	Performance improvement of thermal storage products that help reduce GHG emissions by maintaining building temperatures through the accumulation and release of heat and reducing power consumption by air conditioners and other devices.	F
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	• Development of material recycling technologies of PP for automotive materials and PE for packaging materials, etc. • Development of various chemical recycling technologies through joint research and collaboration with other companies and research institutions	E
7 AFFORDABLE AND CLEAN ENERGY	• Development of new super engineering plastic materials that contribute to automotive weight reduction, etc. • Performance improvement of separators and cathode materials for Li-ion batteries used in electric vehicles with low GHG emissions	D
3 GOOD HEALTH AND WELL-BEING	• Creation of new drugs in the psychiatry & neurology area • Development of drugs in the oncology area • Development of products in the regenerative medicine/cell therapy field • Development of manufacturing technology for nucleic acid medicine	A
2 ZERO HUNGER	• Development of environmentally friendly and highly effective biorational products • Development of new agrochemicals with low environmental impact that contribute to increasing food production	B
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 7 AFFORDABLE AND CLEAN ENERGY	Development of compound semiconductor materials for next-generation power devices, 5G communications and sensors for automated driving that contribute to energy saving and a smart society	C D

Examples of Initiatives Aimed at Achieving the SDGs

In collaboration with the Ministry of Education, Culture, Sports, Science and Technology, Sumitomo Chemical introduced its initiatives aimed at realizing circular system for plastics by compiling a collection of activity examples that reflect lessons learned from a variety of companies' solutions to social issues, such as those aimed at realizing the SDGs and listed on the SDGs Platform.

This collection makes it easy for middle and high school students to understand specific examples of measures companies are taking to solve social issues.

SDGs Platform (working in collaboration with the Ministry of Education, Culture, Sports, Science and Technology)
Learn about companies' social issue solutions, such as those for the SDGs
~Collection of Example Corporate Activities Aimed at Developing Creators for a Sustainable Society~ (PP.44–51) (Japanese only)

https://sdgs-platform.jp/sdgs-jireishu

Advance Innovation

Sumitomo Chemical believes that innovation, which is generated by our "ability to develop innovative solutions by leveraging its technological expertise in diverse areas," one of our core competencies, is the source of our future value, and we have designated "advance innovation" as one of the material issues for future value creation. We will continue to strive to enhance our corporate value through innovation, focusing on four priority areas: the related fields of environment, food, healthcare, and ICT.

<Research and Development>

Basic Stance

Amid increasing uncertainty about the business environment surrounding Sumitomo Chemical Group, the role played by the chemical industry in solving societal issues, such as environmental, energy, and food issues, is enormous, and our business opportunities are expanding.

Our research and development is based on the following basic policies.

■ Basic Policy

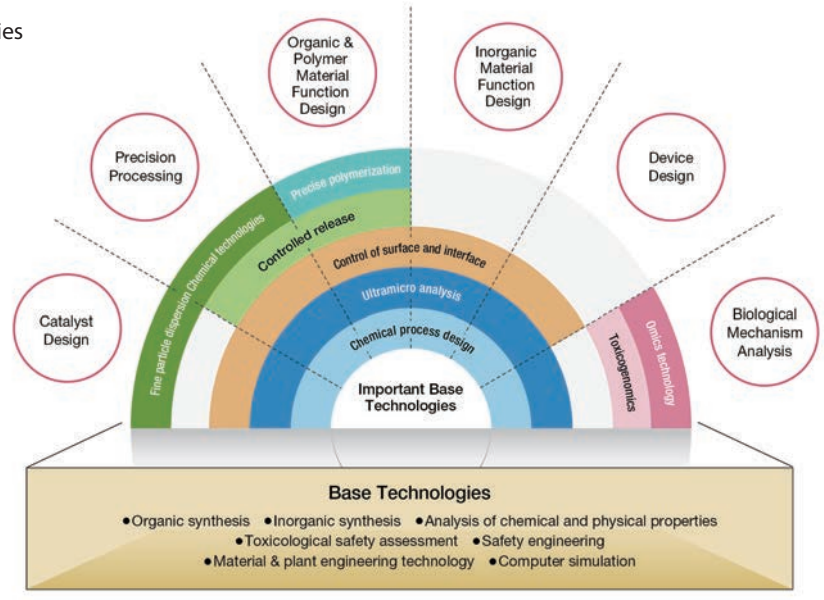
1. Early commercialization of development items
2. Building the foundation of next-generation businesses
3. Building and operating a system to continuously create innovation
4. Promoting R&D based on business (commercialization) strategies and intellectual property strategies.

Strengths of Sumitomo Chemical's R&D

Sumitomo Chemical has been developing six core technologies by utilizing its technologies accumulated through a broad range of research activities over many years. The six core technologies are catalyst design, high-precision processing, design of functional organic chemicals and polymers, design of functional inorganic materials, device design, and analysis of bio-mechanisms. Sumitomo Chemical's Creative Hybrid Chemistry forms the basis of its R&D strategy. Creative Hybrid Chemistry means enhancing our base technologies while broadening and deepening our six core technologies, and combining these disparate technologies from both inside and outside the company to create higher value-added products and technologies.

Moreover, in addition to developing new materials, we are also emphasizing linkages with the business of materials solutions, which encompasses the development of downstream businesses and businesses of different industries. In order to quickly and efficiently apply the fruits of our R&D efforts toward the development of high value-added businesses, we will aggressively pursue technological collaborations with academic institutions and companies from other industries around the world.

■ Six Core Technologies



Advance Innovation

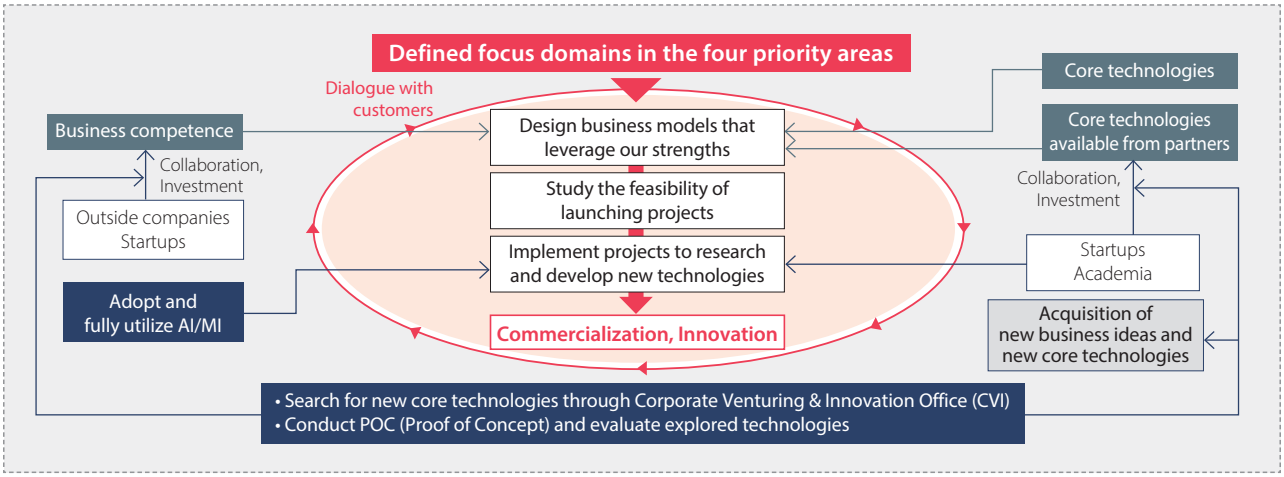
Sumitomo Chemical's Innovation Ecosystem Accelerates the Creation of Next-Generation Businesses

Sumitomo Chemical is building an innovation ecosystem (a system that continuously creates innovation) to steadily link R&D and business development in the four priority areas to the creation of next-generation businesses.

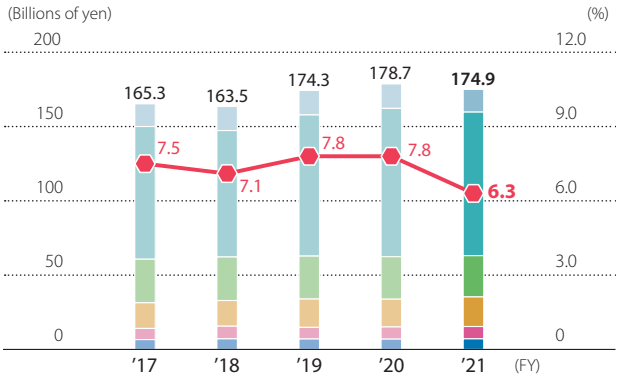
In each of the four priority areas, we have formulated focus areas for our efforts within four priority areas, have identified core technologies that we own and core technologies that we do not own, and we are acquiring non-owned technologies through collaboration with startups and academia. As for business competence, we are also supplementing the lacking areas with alliances and investments with outside companies and startups, considering designing a business model that leverages our strengths and thematizing. At each stage of promoting themes, we communicate closely with relevant internal departments, external partners, and customers, and appropriately reflect their feedback to promote research and development. We also thoroughly utilize digital technologies such as AI and MI* to accelerate development. In addition, we will incorporate new ideas and technologies that emerge in the course of theme promotion and dialogue with partners, and link this to the continuous creation of innovations.

* Materials Informatics

Innovation Ecosystem



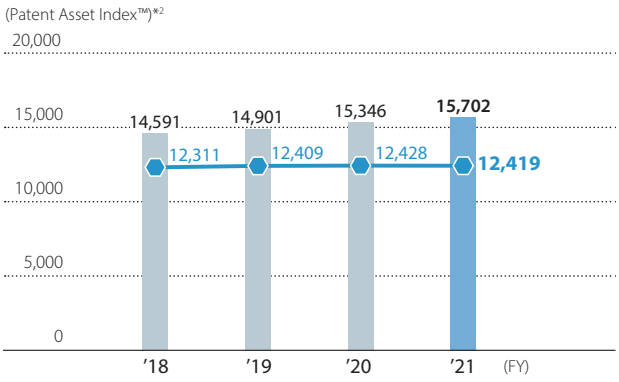
Research and Development Expenses



R&D expenses decreased by 3.7 billion yen over the previous fiscal year, to 174.9 billion yen, mainly due to a decrease in R&D expenses in the Pharmaceuticals Sector.

Note: Scope of calculation: Sumitomo Chemical Group

Patent Asset Size*1



Due to active R&D and patent acquisition activities in recent years, the scale of our patent asset size has remained at a relatively high level. By deploying and making thorough use of artificial intelligence and materials informatics technologies on the front lines of R&D, and by strengthening collaboration with academia and startups, we will continue to build up and strengthen our patent portfolio.

*1 Patent asset size is evaluated using the Patent Asset Index™, generated using the patent analysis tool LexisNexis PatentSight®.

*2 The Patent Asset Index™ is an index for comprehensively assessing the status of legally active patents based on quantity (number of patents) and quality (countries of registration and number of citations)

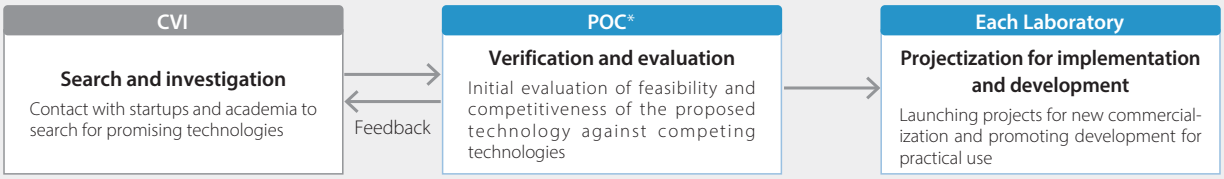
Advance Innovation

Examples of Initiatives

Establishment of CVI

Sumitomo Chemical has established the Corporate Venturing & Innovation Office (CVI) which is deeply involved in world-class innovation clusters, such as Silicon Valley etc., to discover groundbreaking technologies at an early stage, verify the practicality of promising technologies, and support the smooth transition to the development stage at each research center. Proof of Concept (POC) is conducted on the technologies explored by the CVI and those that are deemed worthy of commercialization are transferred to the respective laboratories, where development toward commercialization begins.

■ Flow of Introduction of External Technology Using CVI



* Proof of Concept: Conducted at partner ventures, CDT, etc.

CVI bases	Establishment date	Characteristics
U.S.:Boston (East Coast)	April 2019	• Major hub for life sciences • A cluster of high-quality startups
U.S.:San Mateo (Silicon Valley)	March 2020	• One of the world's largest innovation hubs • Unparalleled concentration of promising startups
U.K.:Cambridge (organized into existing CDT*)	April 2020	• Research base for printed electronics • Functional linkage with academia

* Cambridge Display Technology

SYNERGYCA

In December 2021, following the relocation of the Tokyo Head Office, the SYNERGYCA Creation Lounge was opened in the new headquarters as an important initiative for open innovation. SYNERGYCA is a co-creation space where visitors from industry, government, and academia can see, touch, and experience the technologies of the Sumitomo Chemical Group and generate ideas and insights that will lead to value creation.

The "Get Together" area is designed to promote communication with visitors, the "Experiencing" area is designed to provide an easy-to-understand and fun way to learn about the Group's history, products, technologies, and R&D activities through the use of digital content, and the "Interacting" area is designed to share society's issues and mutual interests with visitors and explore ways to solve problems together.

The building concrete floor kept as is and the bare ceiling with pipes and others create a special atmosphere for interaction and discussion. In addition, in order to create a meaningful opportunity for each visitor, the program is tailored to the visitor's interests, and visit and discussion can be carried out both real and online.

A look at SYNERGYCA

"Interacting" area
Sharing each other's issues, society' issues of interest, etc., and brainstorming and exchanging opinions on how to solve them.

Advance Innovation

<Intellectual Property>

Basic Policy

As a diversified chemical company, the Sumitomo Chemical Group pursues global business development in an array of fields with widely differing characteristics and environments. In the course of doing so, we look to intellectual property as a source that gives us a competitive edge. We diligently file patent applications for our accomplishments involving technologies, research, and development based on business strategies. Also, we promote the acquisition of patent rights and are building a robust patent portfolio to maintain and strengthen our competitive edge. In addition, amid drastic changes in the business environment in recent years, we review as appropriate the business utility of owned patents and appropriately manage our patent portfolio. Thus, through intellectual property activities that align with our business strategies, we are constantly striving to strengthen our foundations and thereby achieve sustainable business growth while maximizing business value.

■ IP Activities

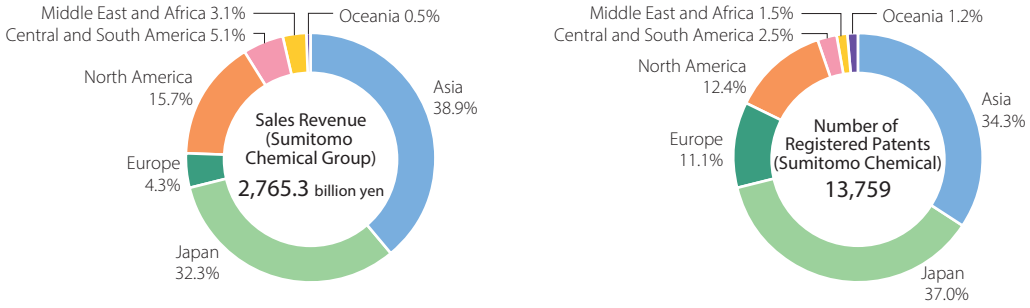
1. Promote activities in line with our business strategies
2. Create global business value
3. Strive to utilize all technological development accomplishments
4. Respect rights and comply with the law

Management System

Under the guidance and supervision of executive officers responsible for and in charge of intellectual property, reports are submitted as necessary to regular meetings regarding major IP issues, measures, strategies, and activities. Our governance structure is built to ensure that management receives guidance on actions to take. In addition, we regularly hold meetings with Group companies in Japan and overseas, sharing each company's IP activities and the latest information on IP-related legal systems and topics, thereby striving to strengthen and enhance IP activities across the entire Sumitomo Chemical Group.

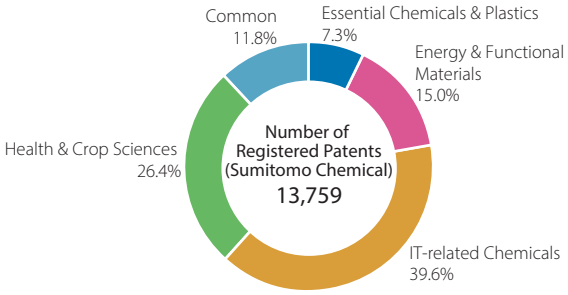
Results

■ FY2021 Ratio of Registered Patents and Sales Revenue by Region

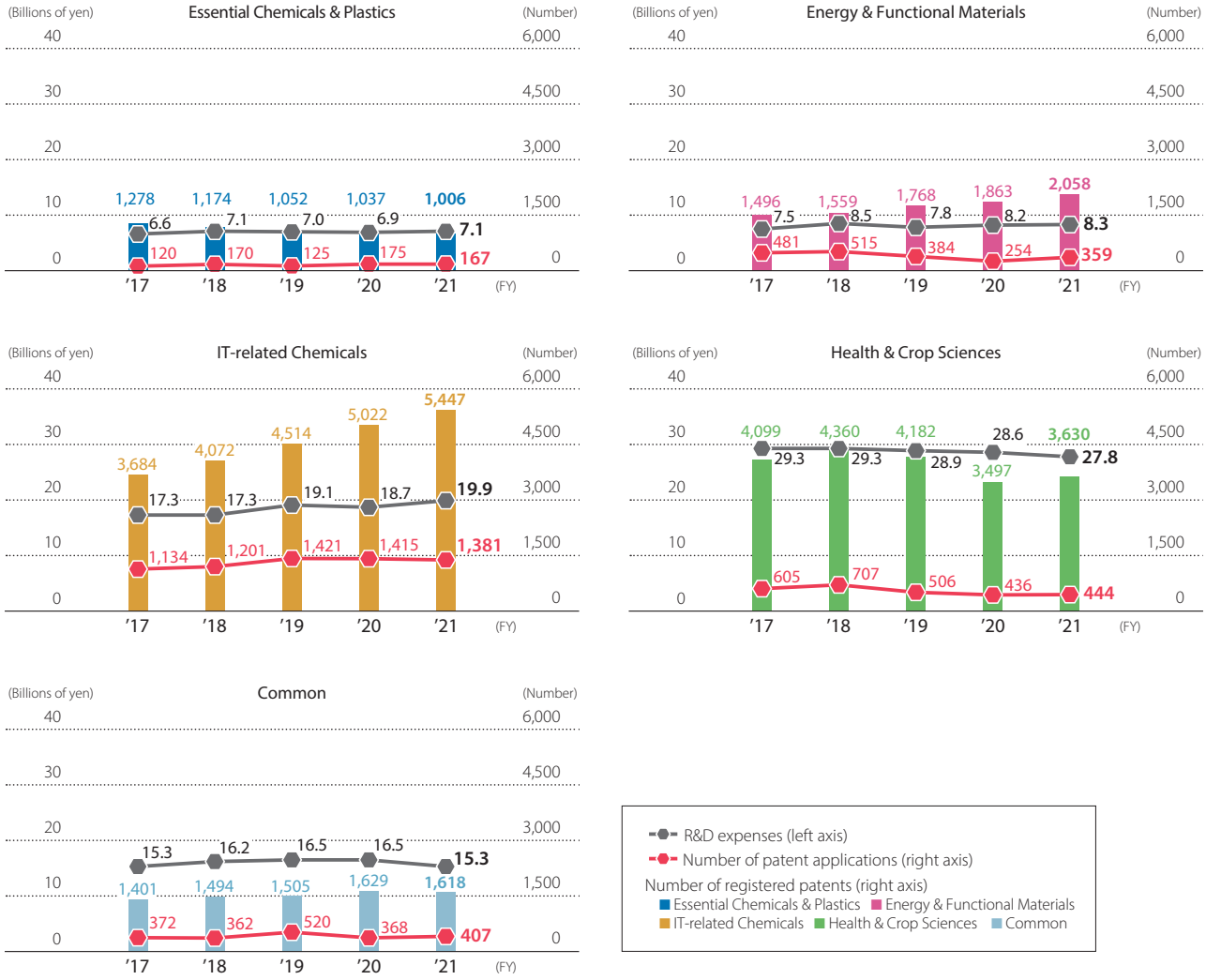


Advance Innovation

FY2021 Ratio of Registered Patents Held by Sector



Number of Registered Patents, Number of Patent Applications, and R&D Expenses by Sector



Notes: • Excluding the Pharmaceuticals Sector
• Scope of calculation for R&D expenses by sector: Sumitomo Chemical Group
• Scope of calculation for number of patent applications and registered patents: Sumitomo Chemical

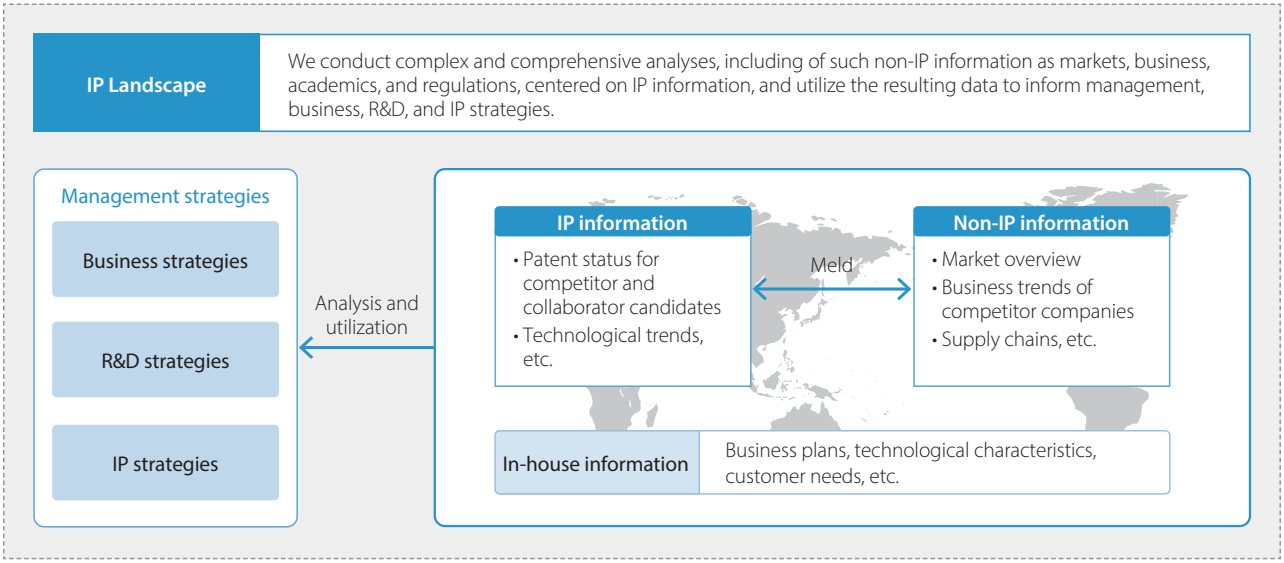
Advance Innovation

Examples of Initiatives

IP Activities

In the IP sector, to promote IP activities aligned with our business strategies, at each stage of business development, we accurately investigate and analyze IP as necessary and share and discuss information on business sectors and R&D. When searching for new themes, searching for customer and partner candidates, and considering M&A, we utilize complex IP landscape analysis in drafting strategies for management, business, R&D, and IP, covering not only IP information but also non-IP information, such as market data. (See illustration below.) In addition, at each stage of business development, we analyze the rights of other companies and strive to swiftly address and minimize IP risks. We efficiently investigate and analyze such things as trends in other companies' patents and related technologies adapted to each stage of development, proactively implementing IP search software and AI technologies, which have made significant progress recently.

■ IP Landscape Activity Outline



Sumitomo Chemical Receives Clarivate Top 100 Global Innovators™ 2022 Award – Recognized as One of the World's Top 100 Innovators for the First Time –

Sumitomo Chemical has received the 11th Clarivate Top 100 Global Innovators™ 2022 Award, which is selected by Clarivate, a U.S.-based global leader in providing trusted information and insights to accelerate innovation.

This award recognizes 100 leading companies in global innovation ecosystems based on Clarivate's own patent-related data and evaluation criteria, which this year focused on five factors: volume, influence, success, globalization, and technical distinctiveness. Sumitomo Chemical received a high rating, especially on technical distinctiveness, which led to the recognition.

Awards Ceremony
Right: Takashi Kojima, Vice President, Clarivate Analytics Japan
Left: Hiroshi Ueda, Executive Vice President, Sumitomo Chemical

Sumitomo Chemical Receives Clarivate Top 100 Global Innovators 2022 Award
https://www.sumitomo-chem.co.jp/english/news/detail/20220318e.html

Governance

Contributing to the SDGs through Governance

Contents

Corporate Governance

Sumitomo Chemical has long dedicated itself to improving its corporate governance, and has undertaken a number of initiatives to further that end, including implementing the Corporate Governance Code. The company also makes continual improvements to ensure that the company's governance structures serve their appropriate functions, including with respect to executive nomination and remuneration, and that the Board of Directors is highly effective, with the aim of further improving corporate governance.

Basic Stance

Sumitomo Chemical cherishes deeply the Sumitomo Spirit which has been passed down through generations over nearly 400 years, the basic teaching of which is, among others, not to seek its own interests alone, but to contribute to society through its business activities. In accord with this business credo, the company strives to take on challenges constantly of creating new value by capitalizing on its proprietary technologies toward achieving the company's sustained growth while at the same time cultivating corporate culture full of vigor and growing as a company that earns trust from the public at large. Recognizing that highly effective corporate governance is vital to attaining these ends, the company keeps working to further enhance its corporate governance in accordance with the following policies and principles, centering particularly on closer cooperation with shareholders and various other stakeholders, faster decision-making, proper oversight of business execution, enhanced systems of compliance and internal control, and active dialogue with stakeholders.

- Sumitomo Chemical not only shall respect the rights of shareholders, but shall endeavor to provide an environment where shareholders can exercise their rights smoothly and also to ensure the effectively equal treatment of shareholders.
- Recognizing that cooperation with various stakeholders, including shareholders, employees, customers, business partners, creditors, and local communities, is essential to sustained growth, Sumitomo Chemical shall proactively work to fulfill its corporate social responsibility and strive to cultivate the corporate culture of a company that can be trusted by society.
- As part of efforts to build a foundation for constructive dialogue with stakeholders, Sumitomo Chemical shall endeavor to provide information that is highly reliable and useful to recipients.
- Sumitomo Chemical's Board of Directors shall fulfill its role and mission properly, based on their fiduciary responsibilities and accountability to shareholders and recognizing the important role of Independent Outside Directors & Auditors, through such measures as presenting appropriate corporate management policies and business strategies that have taken into account changing socioeconomic conditions, and conducting highly effective oversight over the execution of business.
- Sumitomo Chemical shall endeavor to promote constructive dialogue with shareholders with the aim of seeking to attain the company's sustained growth and to enhance corporate value in the medium to long term.

Sumitomo Chemical Corporate Governance Guidelines

https://www.sumitomo-chem.co.jp/english/company/files/docs/governance_pdf_01.pdf

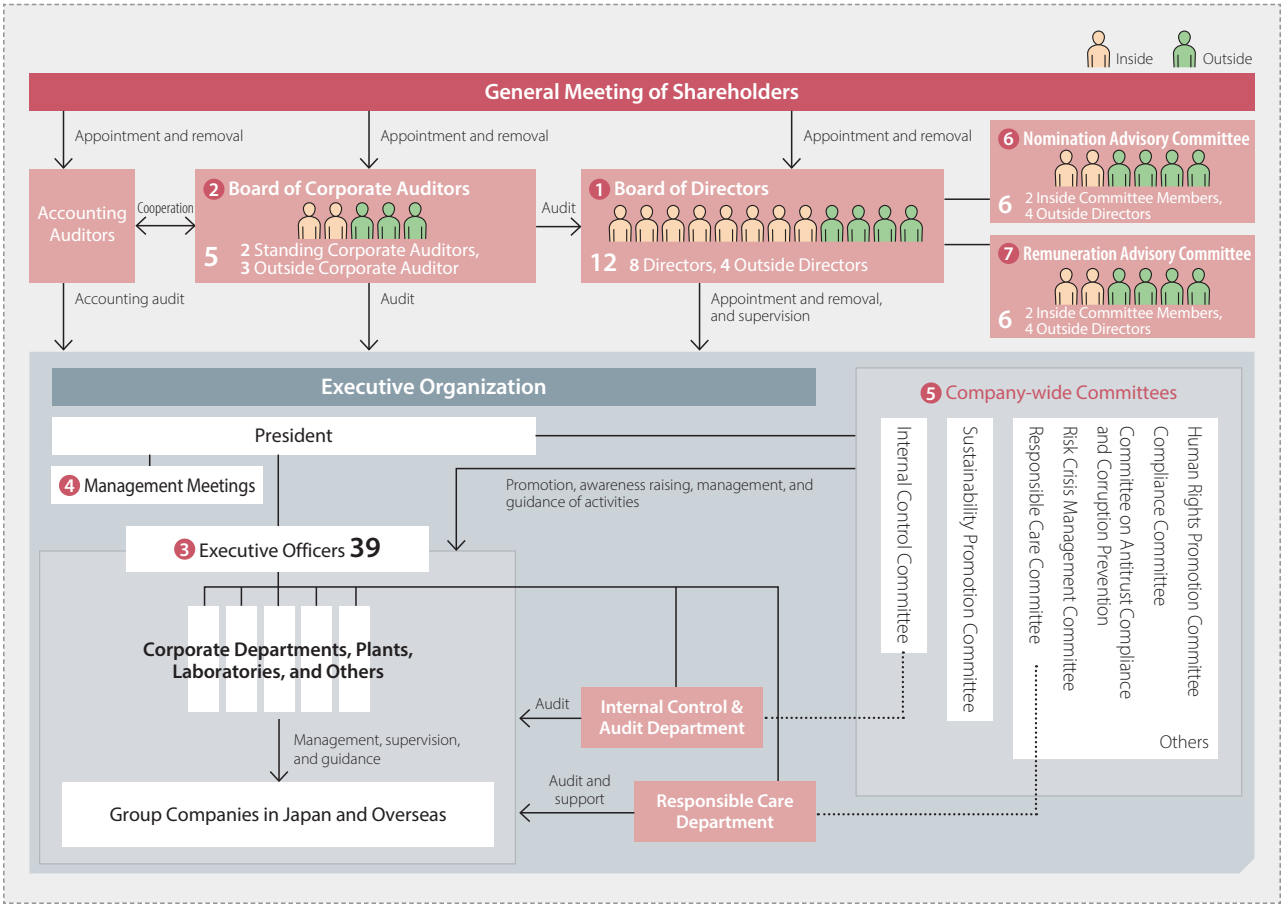
Measures to Date for Strengthening Corporate Governance

Date		Major Initiatives	Board Composition	Appointment of Board Members	Executive Remuneration	Other
2003	June	Introduced Executive Officer system (reduced number of Directors from 25 to 10)	●			●
	July	Established Compliance Committee				●
2004	June	Eliminated system of retirement benefits for Directors and Corporate Auditors			●	
2007	May	Established Internal Control Committee				●
	September	Established Remuneration Advisory Group			●	
2010	September	Established Nomination Advisory Group		●		
2011	November	Drew up standards for appointment of independent outside directors	●	●		
2012	June	Appointed 1 outside director	●			
2015	June	Selected 3 outside directors (increased by 2)	●			
	October	Established Remuneration Advisory Committee in place of Remuneration Advisory Group			●	
		Established Nomination Advisory Committee in place of Nomination Advisory Group		●		
2016	December	Formulated *Sumitomo Chemical Corporate Governance Guidelines*				●
2018	June	Selected 4 outside directors (including 1 woman) (increased by 1)	●			
2021	June	Board of Directors consisting of more than 1/3 Outside Directors	●			
2022	June	Introduction of a restricted stock compensation plan for Internal Directors and Executive Officers			●	

Corporate Governance

Current Corporate Governance Organization

■ Corporate Governance Organization (As of July 1, 2022)



Structure

1 Board of Directors

The Sumitomo Chemical Board of Directors decides important matters concerning the company's management, including management policy and business strategies, in accordance with the law, the Articles of Incorporation, and the Board of Directors' own rules. It also receives reports from Directors and others on the performance of duties, the financial situation, and operating results, and oversees the performance of duties by each Director.

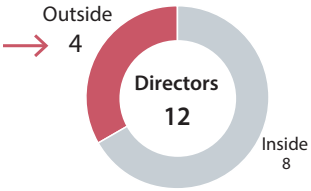
It also analyzes and assesses the effectiveness of the Board of Directors, and follows up on the results to ensure and improve effectiveness. In accordance with the Nomination Advisory Committee's advice, candidates for Director are nominated by the Board of Directors and are elected once a year at the General Meeting of Shareholders.

■ Overview of the Board of Directors (FY2021 13 times held)

Chairperson	Chairman of the Board	The Chairman of the Board does not concurrently serve as Executive Officer.
Number of Persons	12	Outside Directors make up one third or more of the Board of Directors.
Frequency	Monthly in principle	Special meetings of the Board of Directors are convened as needed.
The Term of Office of Directors	One year	The term of office of Directors is one year, in order to establish clear administrative responsibility and roles for Directors.

■ Breakdown of 12 Directors

	Male	Female	Total
Inside	8	0	8
Outside*	3	1	4
Total	11	1	12



* Independent Outside Directors having no conflicts of interest with general shareholders

Corporate Governance

Major Agendas Discussed at Meetings of the Board of Directors in Fiscal 2021

● Financial results, dividends, financing
● Corporate Business Plan, management strategy, sustainability, assessment of the effectiveness of the Board of Directors
● R&D, digital innovation, IT promotion
● Internal controls, responsible care, risk management, compliance
● Nomination, remuneration, important personnel changes, recruitment and training of human resources
● Auditors, accounting auditors
● Status of important investments • Acquisition of the South American business of Nufarm • Strategic alliance with Roivant • Projects relating to Petro Rabigh etc.
● Other • Important matters for operating businesses of listed subsidiaries • Carbon neutral strategies etc.

❷ Board of Corporate Auditors (FY2021 14 times held)

We have a Corporate Auditor system, with a Board of Corporate Auditors consisting of five Corporate Auditors. The Corporate Auditors and the Board of Corporate Auditors play a vital role in our corporate governance by auditing the performance of duties by Directors in accordance with the law and the Articles of Incorporation. The Board of Corporate Auditors meets monthly as a rule and strives to obtain timely information, including important compliance-related information.

Standing Corporate Auditors and Outside Corporate Auditors attend meetings of the Board of Directors and the Board of Corporate Auditors. In conducting their audits, they receive reports and explanations as needed from the Internal Control & Audit Department, operating divisions, and accounting auditors. In addition, Standing Corporate Auditors attend meetings of the Internal Control Committee and other important company meetings.

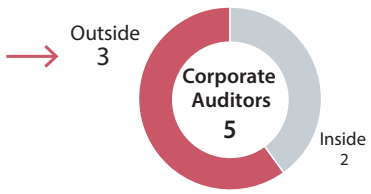
The results of audits and the objective views of Outside Corporate Auditors are appropriately reflected in internal audits, corporate auditors' audits, and accounting audits, so as to raise the effectiveness and efficiency of auditing.

The Corporate Auditors' Office has been established with staff dedicated to providing assistance in auditing functions under the direction of Corporate Auditors.

Breakdown of 5 Corporate Auditors

Inside	2
Outside*	3

* Independent Corporate Auditors having no conflicts of interest with general shareholders



Management Organizations for Decision-making, Execution, and Auditing

❸ Executive Officers

We have appointed Executive Officers to expedite the implementation of business operations. Executive Officers are responsible for carrying out operations in accordance with the policies adopted by the Board of Directors. The term of office for Executive Officers is one year.

Breakdown of 39 Executive Officers (FY2022)

	Male	Female	Total
Japanese	35	1	36
Non-Japanese	3	0	3
Total	38	1	39

Corporate Governance

4 Management Meetings

Management Meetings support decision making by management as an institution for debating such important issues as corporate strategy and capital investment, including matters to be deliberated in the Board of Directors and reports to be made to the Board. Management Meetings consist of the Executive Officers who are in charge of or who supervise key management functions, the Standing Corporate Auditors, and the Chairman of the Board. In principle, the meetings are held 24 times a year.

5 Company-wide Committees

We have established internal meetings (committees) to deliberate on important matters concerning the management of the Company and the Group from a broad and diverse range of viewpoints. The content of these meetings is reported to the Board of Directors as needed, and the committees receive instructions from the Board of Directors in an effort to enhance business execution and oversight functions. Several of these committees are attended by the Standing Corporate Auditors, who serve as observers, including the Internal Control Committee, the Compliance Committee, and the Responsible Care Committee.

We regard the promotion of sustainability as a core issue for the entire Group. In 2018, we established the Sustainability Promotion Committee to further strengthen our sustainability initiatives. The Responsible Care Committee also examines specific measures to address climate change and other environmental issues. To further promote initiatives related to respect for human rights, the Human Rights Promotion Committee was established in fiscal 2019.

■ Overview of Committees and Number of Meetings

Name	Details	Number of Meetings Held in FY2021
Internal Control Committee	By debating various measures to build or expand internal control systems, and monitoring their implementation status, this committee is intended to continually improve the internal control systems of the Sumitomo Chemical Group.	3
Sustainability Promotion Committee	This committee suggests measures to accelerate the Sumitomo Chemical Group's contributions to sustainability, taking in a comprehensive perspective on risks and opportunities with regard to medium- to long-term issues in the environment and society.	2
Responsible Care Committee	This committee formulates annual policies, medium-term plans, and specific measures concerning responsible care (safety, health, environment, and quality), including climate change issues.	1
Risk Crisis Management Committee	This committee deliberates on policies for specific risks and crises, such as earthquakes, wind and flood damage caused by extreme weather, pandemics, and breakdowns in public security.	10*
Compliance Committee	This committee deliberates on the Group's compliance policies and action plans, and the status of the operation of the compliance system, including responses to internal reports and the results of activities.	1
Human Rights Promotion Committee	This committee promotes increasing awareness of human rights issues, and drafts and executes policies to respect human rights in the entire value chain including Sumitomo Chemical Group.	1

Note: Each committee separately held subcommittee meetings on specific important topics and secretariat meetings.
* The number of meetings increased as we deliberated on preventive measures for the Covid-19 pandemic.

Corporate Governance

Executive Nomination and Remuneration

6 Nomination Advisory Committee

The Nomination Advisory Committee was established in October 2015 to act as an advisory body to the Board of Directors on the selection of senior management* and on the appointment of directors and auditors. Regular meetings are held annually and ad hoc meetings are convened as needed. The committee, whose members are directors (the majority of whom are outside directors) makes recommendations to the Board of Directors when selecting executives, with the aim of ensuring even greater transparency and fairness in executive selection and also clarifying the process of executive selection.

* Senior management means Executive Officers above Senior Managing Executive Officer, and Managing Executive Officers who are immediately under the President, supervising certain functions.

7 Remuneration Advisory Committee

The Remuneration Advisory Committee was established in October 2015, as an advisory body to the Board of Directors on the remuneration system, remuneration levels, and other related matters, for Directors and Executive Officers. The committee is made up of Outside Directors, the Chairman of the Board, and the President. It holds regular meetings annually and convenes ad hoc meetings as needed. The committee, whose members are directors (the majority of whom are outside directors) makes recommendations to the Board of Directors when determining systems for and levels of executive remuneration, among other issues, with the aim of further increasing transparency and fairness.

In addition, upon authorization by the Board of Directors, the committee determines the amount of compensation for each individual executive management team member and director in accordance with the policies for determining compensation of senior management and Directors.

■ Directors' and Corporate Auditors' Remuneration in Fiscal 2021

(Millions of yen)

Title	Number of people	Total Amount of Remuneration and Other Compensation	Amounts of Remuneration and Other Compensation by Type	
			Basic Compensation (Fixed Remuneration)	Bonuses (Performance-linked Remuneration)
Directors (Of which, Outside Directors)	13 (4)	839 (80)	588 (60)	252 (20)
Corporate Auditors (Of which, Outside Corporate Auditors)	5 (3)	120 (42)	120 (42)	—
Total	18	959	708	252

Note: The numbers of people and the total amounts of remuneration and other compensation listed above include one Director who retired during this fiscal year.

■ Composition of the Nomination Advisory Committee and the Remuneration Advisory Committee and Attendance Status (Meetings Attended / Meetings Held) in Fiscal 2021

		Nomination Advisory Committee	Remuneration Advisory Committee
Chairman of the Board	Masakazu Tokura (Chairman)	3/3 times (100%)	3/3 times (100%)
Representative Director & President	Keiichi Iwata	3/3 times (100%)	3/3 times (100%)
Outside Director	Koichi Ikeda	3/3 times (100%)	3/3 times (100%)
Outside Director	Hiroshi Tomono	3/3 times (100%)	3/3 times (100%)
Outside Director	Motoshige Itoh	3/3 times (100%)	3/3 times (100%)
Outside Director	Atsuko Muraki	3/3 times (100%)	3/3 times (100%)

■ Activities of the Advisory Committees in Fiscal 2021

Nomination Advisory Committee	• Deliberation on officers for fiscal 2022
Remuneration Advisory Committee	• Deliberation on basic remuneration • Deliberation on the bonuses of officers • Deliberations related to revising the policies and procedures for determining compensation of senior management and Directors

Corporate Governance

Policies and Procedures for Reshuffling Senior Management and Nominating Candidates for Directors and Corporate Auditors

Appointment Policy

- ☐ Performance, knowledge, experience, personality, and the insight of a candidate are comprehensively considered from the standpoint of having "the right person in the right place," as well as ensuring a proper and prompt decision-making process, so as to select a person suitable for the respective duties.
- ☐ According to the criteria set forth by the company, the person who has reached a certain age set for retirement will resign, in principle, upon completion of his or her tenure.
- ☐ For the nomination of candidates for outside directors and auditors, if a candidate also serves as an executive officer of other listed companies, the number of these companies must be less than five, including our company. This rule is to ensure that the candidate can properly fulfill his/her responsibility as our Director or Corporate Auditor.

Appointment Procedures

Candidates Selected by Representative Directors	● Representative Directors select candidates suitable for the positions of senior management, Directors and Corporate Auditors in accordance with the above Policies.
Discussion by the Nomination Advisory Committee	● The results of the nomination will be deliberated at the Nomination Advisory Committee, and recommended to the Board of Directors.
Decision by the Board of Directors	● The Board of Directors will deliberate based on the advice and make a decision.

Dismissal Policy and Procedures

- ☐ The Board of Directors will deliberate and decide on its response if senior management commits a wrongful, inappropriate, or treasonous act, or if there is a cause that is deemed unsuitable to be committed by a member of senior management.

Remuneration*

1. Basic Policy for remunerations of Directors, etc.

(1) The remuneration of senior management and Directors (excluding Outside Directors) shall consist of Basic Compensation as fixed compensation and Bonuses and Stock Compensation as variable compensation. In addition, the remuneration for Outside Directors shall consist of Basic Compensation and Bonuses.

(2) Basic Compensation is designed according to roles and responsibilities as basic remuneration for the performance of duties, so that the actions of senior management and Directors are not aimed at short-term or sub-optimal effects.

(3) The amount of Bonuses shall largely reflect the Company's consolidated financial results for a fiscal year in order to heighten short-term incentives to achieve the annual targets of business plans.

(4) Stock Compensation is designed to promote further value sharing with shareholders and serve as a medium- to long-term incentive for the continuous growth of the Company.

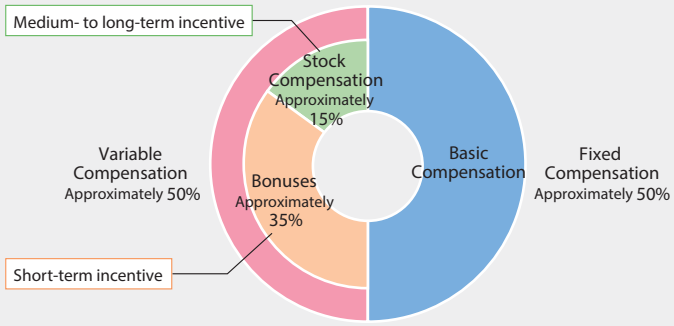
(5) The remuneration shall be set at levels which are designed to be objectively competitive to attract and retain outstanding talent while comprehensively taking into consideration such factors as the scale and content of the Company's business and external evaluations of ESG and other non-financial factors. Based on surveys by a third-party organization and other materials, such levels shall be checked annually whether or not to be objectively appropriate.

(6) When the consolidated performance target (core operating income) for the final fiscal year of the Corporate Business Plan (FY2022 – FY2024) is achieved, the remuneration of Directors (excluding Outside Directors) shall be designed so that the ratio of fixed compensation to variable compensation is approximately 1 to 1 and the ratio of short-term incentives (Bonuses) to medium- to long-term incentives (Stock Compensation) in variable compensation is 7 to 3.

* Remunerations of Executive Officers are determined in the same manner.

Corporate Governance

Image diagram of composition of remuneration of Directors (excluding Outside Directors)



* Remuneration composition when the performance target in the Corporate Business Plan is achieved

2. Mechanisms of each remuneration element

(1) Basic Compensation

The level of Basic Compensation shall be determined based on the policy described in 1. (5) to (6) above.

While Basic Compensation for each year shall be fixed, the Company will adopt a mechanism where the Basic Compensation level would be changed in the event where the Company's position has changed in terms of "growth", "earnings capacity", and "outside evaluations" from a comprehensive and medium- to long-term perspective.

As main indicators for determining the change in the Company position, the Company will apply the following: 1) in terms of "growth," sales revenue, total assets and market capitalization, 2) in terms of "earnings capacity," net income (attributable to the parent company), ROE, ROI and D/E ratio, and 3) in terms of "outside evaluations," credit ratings and ESG index selected by the GPIF (Government Pension Investment Fund).

The amounts to be paid to each person will be determined in accordance with the base amount set by each position.

(2) Bonuses (short-term incentive)

Bonuses shall be paid on the condition that performance for that fiscal year exceeds a particular level and shall be determined based on the bonus calculation formula.

In order to reflect the current earnings capacity of the relevant business year (including financial activities) to the amount of bonuses, the Company will apply the combined value of consolidated core operating income and financial profit and loss to the performance indicator concerning the bonus calculation formula. In addition, the Company will set the coefficient of the calculation formula so that it will get larger as the position of a person gets higher.

<Bonus calculation formula>

Consolidated performance indicator (Core operating income + financial profit and loss)	×	Coefficient

Corporate Governance

(3) Stock Compensation (medium- to long-term incentive)

Stock Compensation shall be restricted stock compensation. Restricted stocks shall be allocated at a certain time after the ordinary general meeting of shareholders each year according to the amount determined for each position, and it shall be obligatory to hold the stocks during the term of office. In addition, the Company shall set the ratio of stock Compensation to total remuneration so that it will get larger as the position of a person gets higher.

<Overview of restricted stock compensation plan>

(1) Transfer restriction period

Until the retirement from the position of Director and Executive Officer not concurrently serving as a Director at the Company

(2) Removal of transfer restrictions

On the condition that the eligible person continuously served as a Director or Executive Officer not concurrently serving as a Director at the Company during his or her terms of office, the Company shall remove transfer restrictions on all allotted shares when the transfer restriction period ends.

However, a) if the eligible person resigns from his or her position as a Director and Executive Officer not concurrently serving as a Director at the Company before the end of his or her term of office owing to a justifiable reason, or b) if the eligible person resigns from his or her position as a Director and Executive Officer not concurrently serving as a Director at the Company after the end of his or her term of office, but before the end of the transfer restriction period for any reason other than justifiable cause, the Company shall reasonably adjust the number of allotted shares from which to remove transfer restrictions and the timing of the removal of transfer restrictions, as necessary.

(3) Conditions for forfeiture of shares

If the eligible person is found to be in material violation of any law, regulation or internal rule, all allotted shares, including those whose transfer restrictions have been removed, shall be forfeited (the Company shall acquire them without consideration).

3. Procedures for determining remuneration of directors, etc.

The Company shall establish a Remuneration Advisory Committee as an advisory body to the Board of Directors on a remuneration system for senior management and Directors, levels of remuneration, and other matters incidental thereto. Composed of Directors (a majority are Outside Directors), the Committee shall advise the Board of Directors, when determining officer remuneration system, levels of remuneration, etc., so that greater transparency and fairness can be ensured regarding the remuneration.

The remuneration amount of Directors shall be set at a level not higher than the upper limit of a total remuneration prescribed by the resolution of the 125th Ordinary General Meeting of Shareholders held on June 23, 2006 (i.e., 1.0 billion yen or less per year). Furthermore, the amount of remuneration to be paid to Directors (excluding Outside Directors) for granting restricted stock shall be determined within the upper limit of 400 million yen per year set by the resolution of the 141st Ordinary General Meeting of Shareholders held on June 23, 2022.

The Board of Directors shall deliberate on and decide the method of determining remunerations of Directors, etc., based on the advice from the Remuneration Advisory Committee. Furthermore, the individual remuneration of senior management and Directors shall be determined by the Remuneration Advisory Committee, which is authorized by the Board of Directors, in accordance with the policies for determining compensation of senior management and Directors.

Corporate Governance

Efforts to Substantively Strengthen Corporate Governance

Changes in the Method of Operation of the Board of Directors

In FY2015, Sumitomo Chemical drastically reconsidered its various policies relating to the method of operation for the Board of Directors and corporate governance with the major aims of further strengthening the monitoring functions of the Board and further improving the transparency and objectivity of management, among other goals. At the time, a great deal of emphasis was placed on maximizing the use of the functions of Outside Directors and Auditors, so a variety of measures were considered to achieve this, centered on the thought that it would be essential to address the information asymmetry between internal executives and Outside Directors and Auditors. As a result of the numerous improvements made each year since then, meetings of the Board of Directors, as well as the operation of various related meetings before and afterwards, follow the procedures laid out in the table below.

A few days prior to the Board of Directors meeting

Advance briefing

Expanded Advance Briefings for Outside Directors and Auditors, Organic Coordination with the Board of Directors
- The roles of advance briefings and meetings of the Board of Directors have been clarified, ensuring sufficient time for discussion in the Board of Directors meeting
- The content of advance briefings, including points of discussion, are reflected in the deliberations of the Board of Directors

Day of the Board of Directors meeting

Board of Directors <Standard flow>

9:00	Resolutions
10:00	Reports • Head office monthly report • Business sector monthly report • Report on important proposals
11:15	Rotation report
12:00	End

More than 2/3 of the time in meetings of the Board of Directors is used for discussions.

Report on the Summary of Internal Discussion at a Management Meeting
- Report the summary of discussions held in internal meetings for important agenda items and how the views expressed in those discussions are reflected in the agenda items

Report to Board of Direcors before Deciding on a Major Proposal
- For important agenda items, such as the management direction, M&A, and other major projects, reports (including progress reports) are made to the Board of Directors from the early stages of consideration so that they can reflect the Board's intentions

Each Sector Sets Aside a Block of Time to Make Comprehensive and Systematic Reports
- Assign a sector to make a report on the overview of business, strategy, and the progress of various measures and R&D. (Main sectors of the Head Office are also subject to the assignment.)

Upon completion of the Board of Directors meeting

Meetings

Opportunities for Informal Discussions
- Meetings for Outside Directors and Auditors only (twice a year)
- Social meetings of Outside Directors and Auditors with internal executives (several times a year)
- Meetings for Outside Directors and Auditors and main sectors (6 times a year)

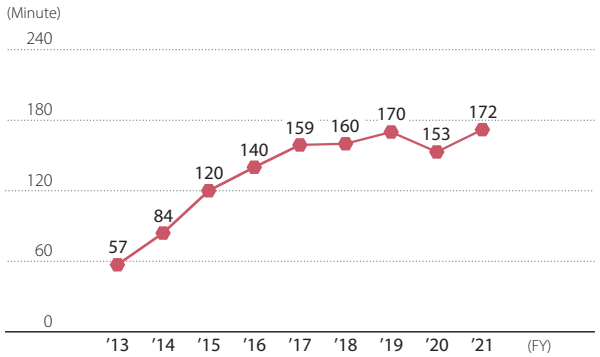
Visits to Production Sites
- Outside Directors and Auditors visit to our business offices, and Group companies outside Japan (twice a year)

* In response to the spread of COVID-19, online visits were conducted for overseas group companies

P.68 Visit to Production Sites by Outside Directors and Auditors

Through this sort of efforts for improvement, the Board of Directors has grown more active each year, and the amount of time required for their meetings is steadily increasing.

■ Average Length of Board of Directors Meetings



Corporate Governance

Utilizing the Oversight and Advisory Functions of Outside Directors and Auditors

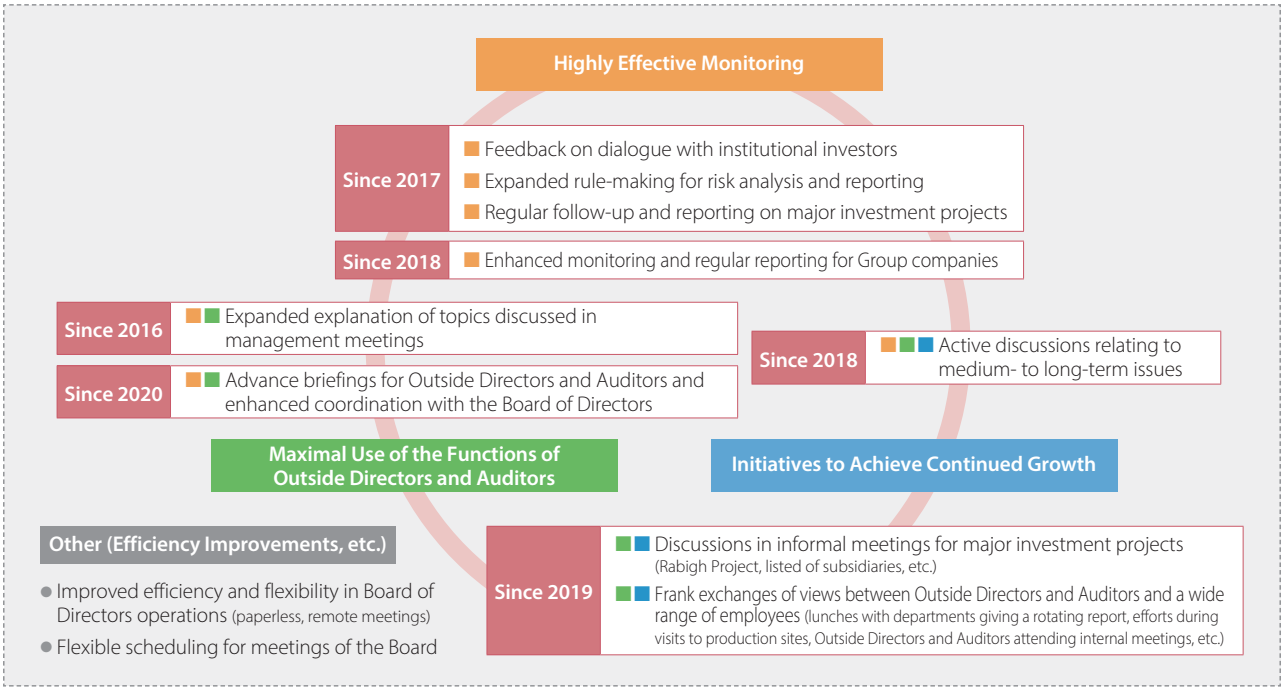
As a result of efforts such as reviewing the way the Board of Directors operates, Outside Directors and Auditors have expressed the view that meetings of Sumitomo Chemical's Board of Directors feature free, frank, constructive, and lively debates. In the meeting of Board of Directors as well as informal meetings of Outside Directors and Auditors relating to the assessing the effectiveness of the Board of Directors, Outside Directors and Auditors pointed out a number of issues, and made recommendations on topics such as the method of operation for the Board of Directors, the support system for Outside Directors and Auditors, and a range of policies to improve corporate governance.

Some specific examples are described below.

Case 1	Discussions in Informal Meetings	Once, when a particular project required important decisions to be made, Outside Directors and Auditors had expressed a desire to hear the honest views of management, so an informal meeting was set up. As a result of unreserved exchanges of views in this meeting, Outside Directors and Auditors were able to align their views with those of company executives with respect to the project, which also made discussions at the subsequent meeting of the Board even more lively, leading to appropriate management decisions. Since this project, opportunities have been created for discussions in informal meetings at regular intervals.
Case 2	Follow-up on Major Projects and Monitoring of Group Companies	When the Board of Directors received a report that an investment project that had been decided on by the Board was not proceeding according to plan, Outside Directors and Auditors pointed out the importance of more timely reporting and of discussing such issues. Since then, the company has adopted a stance of reporting negative information as soon as possible, strengthening efforts to follow-up on major projects and monitor Group companies.
Case 3	Improving the Efficiency of Meetings of the Board of Directors	Outside Directors and Auditors who also serve as executives for other companies provided members of the Board with information on efforts to enhance IT for the Boards of Directors of other companies, which led to a reconsideration of operational methods for the Board of Directors, resulting in the deployment of a paperless meeting system and the creation of an environment for remote attendance. This has not only improved the efficiency of tasks such as preparing for meetings of the Board, it has also made it possible to hold meetings more flexibly.
Case 4	Interaction with Employees	In light of a desire of Outside Directors and Auditors for dialogue with employees across a wide range of levels, the company has taken a variety of measures, including informal meetings with a few members of the rotation reporting divisions, and creating opportunities for presentations from young employees during visits to production sites. By listening to the unfiltered voices of employees, this not only has the effect of providing Outside Directors and Auditors with an even deeper understanding of the company, it also leads to increased motivation on the employee side, among other effects.

There are any number of other cases where the company's efforts were advanced by explicit or implicit suggestions from Outside Directors and Auditors, and their monitoring and advisory functions has been a driving force for continually strengthening corporate governance at Sumitomo Chemical.

Example Initiatives Based on Recommendations from Outside Directors and Auditors



Corporate Governance

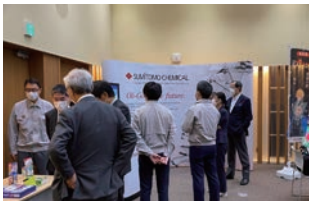
Visit to Production Sites by Outside Directors and Auditors

To gain a better understanding of the current situation, every year Outside Directors and Auditors at Sumitomo Chemical visit production sites located in and outside of Japan. In fiscal 2021, in Japan, they visited the research laboratories in Osaka and Takarazuka in October. Overseas, because onsite visits were difficult due to the COVID-19 pandemic, they conducted the first online visit to a Group company in Taiwan. Outside Directors and Auditors considered the visits to be very significant, as it deepened their understanding of the business of the Company.

■ Record of Recent Visits

In November 2017, Oita Works
In March 2018, a group company in South Korea
In September 2018, Ehime Works
In February 2019, a group company in Saudi Arabia
In November 2019, Misawa Works
In October 2020, Chiba Works
In October 2021, Research laboratories in Osaka and Takarazuka
In March 2022, Group company in Taiwan (online visit)

Visit to the Research Laboratories in Osaka (October 2021)



Visit to the Research Laboratory in Takarazuka (October 2021)

Online visit to the Group company in Taiwan (March 2022)

Assessing the Effectiveness of the Board of Directors

Improvements over and Assessment of Fiscal 2021

The effectiveness of the Board of Directors is assessed in terms of its composition, operational status, deliberation/reports at its meetings, auditing status on its business execution, and the operations of the non-mandatory Nomination Advisory Committee and Remuneration Advisory Committee. The company conducts surveys of each Director and Auditor about their assessing the effectiveness of the Board of Directors. At the end of fiscal 2021, we confirmed steady yearly improvement in its effectiveness, which was at a favorable level in general. We also confirmed that various measures will be flexibly and proactively taken to further enhance the effectiveness of corporate governance in order to appropriately respond to the needs and demands of society as a company listed on the Prime Market going forward.

■ Improvement Initiatives

Regarding the enhancement of deliberation at Board of Directors meetings, we implemented such various measures as holding informal discussion and participating in important internal meetings with Outside Directors and Auditors. We were able to confirm that these measures resulted in more active deliberation at Board of Directors meetings as objective data. In addition, regarding further enhancing Group governance, we saw some progress, such as progress on plans for integrating purchased businesses and increasing reporting opportunities for large-scale start-up projects. Furthermore, regarding enhancing stakeholder dialogues and disclosures, the Company was certified as an A-list company for climate change and water security by CDP. The Company was awarded the Environment Minister Award (Silver Award) in the environment and sustainable company category of the ESG Finance Awards Japan by the Ministry of the Environment. These and other achievements contributed to our solid track record.

P.46 Communication with Stakeholders

Corporate Governance

Initiatives for the Future

Sumitomo Chemical is undertaking the following initiatives with the aim of further increasing the effectiveness of the Board of Directors going forward.

1. Further deepen discussions at Board of Directors, etc.

We have taken various measures to date to address the information asymmetry between internal executives and Outside Directors and Auditors. Committing to further improvements, we will continue working to further stimulate deliberations at the Board of Directors meetings by providing more comprehensive information related to various indicated matters, reasons behind decisions, and main considerations from the concept stage until a proper proposal is made. In addition, informal discussion will be held on a regular basis by Board Members because it has become clear from objective data that it is effective at fostering more active discussion. We will also allow frank and candid exchange of opinions on material management issues, including the medium- to long-term direction. These efforts will lead to deeper discussions on the direction of management at the Board of Directors. By proactively implementing these measures, we will continue striving to further deepen discussions at the Board of Directors and other meetings.

2. Strengthen support for Group companies

In line with the broader global expansion of business, ensuring the sound operation of Group companies has become more important than ever. We have therefore decided to further enhance monitoring of and support and guidance for Group companies. To this end, we will continue implementing detailed responses tailored to the characteristics of each company, while taking into account that each Group company has a different role, positioning and historical background.

Corporate Governance

Listed Company with Listed Subsidiaries

Our Thinking Regarding Listed Companies with Listed Subsidiaries

For a publicly listed subsidiary, the advantages of being publicly listed include better employee morale, enhanced ability to recruit employees, greater trust from customers, and greater influence within the industry. In addition, the parent company can expect to benefit from synergies in collaboration and cooperation with its subsidiaries. Because of these benefits, in seeking to maximize the overall corporate value of the Sumitomo Chemical Group, we think that holding listed subsidiaries is one of the effective options on premise of preserving each subsidiary's autonomy and respecting the rights of minority shareholders.

For the publicly listed subsidiaries in Japan of the Sumitomo Chemical Group, because they play an important role in our management strategy, we are not thinking of selling them at present. On the other hand, as for converting them into wholly owned subsidiaries, while we always keep it in mind as one option, it is not a high priority because, in addition to not being able to enjoy the benefits of having listed subsidiaries, the financial burden of buying out the holdings of minority shareholders would be significant. Accordingly, at the present time, we think that, from an overall perspective, keeping these subsidiaries as publicly listed subsidiaries is the optimal position. We are constantly monitoring our relationship with each listed subsidiary and, in accordance with the Sumitomo Chemical Group's management strategy and changes in our operating environment, considering changes, including in our shareholdings.

■ The Significance of Being a Listed Companies with Listed Subsidiaries

Company Name	History	Position in Group	Synergies
Sumitomo Pharma Co., Ltd.	Sumitomo Chemical's pharmaceutical business began with the acquisition of the Japan Dyestuff Manufacturing Company in 1944. After being spun off as the subsidiary Sumitomo Pharmaceuticals in 1984, it merged with Dainippon Pharmaceutical in 2005 to become Sumitomo Dainippon Pharma (currently Sumitomo Pharma).	The company's core pharmaceuticals business is a pillar of Sumitomo Chemical's life sciences business, along with the agricultural chemicals business, and is a source of innovation. In the current Corporate Business Plan, it has positioned "healthcare" as one of the priority areas in making efforts for acceleration the development of next-generation businesses, and further innovation is expected in this area in the future.	● Research at the Bioscience Research Laboratory, which consolidates and integrates parts of the research organizations of the company and Sumitomo Chemical ● Contract Development and Manufacturing Organization in regenerative medicine and cell therapies (combines the company's expertise in regenerative medicine and cell therapy with Sumitomo Chemical's expertise in the CMO business) ● Theranostics (combines the company's antibody design technology with Sumitomo Chemical's biological mechanism analysis technology and the radioactive isotope technology of Nihon Medi-Physics) ● Having locations on Sumitomo Chemical's premises enables close collaboration in such areas as quality and production management, reducing indirect expenses
Koei Chemical Co., Ltd.	Sumitomo Chemical invested capital in 1951 for relationship-building because the company was Sumitomo Chemical's largest customer for methanol. Thereafter, when the company ran into a financial crisis, the collaboration was strengthened in order to rebuild the company, including dispatching executives from Sumitomo Chemical.	Through production outsourcing in both directions for such items as catalysts and electronic materials based on the unique organic synthesis technologies of the company, the company has contributed to the expansion of the Sumitomo Chemical Group's business in the field of fine chemicals.	● Optimization of the Sumitomo Chemical Group's production of active pharmaceutical ingredient and intermediates through a new multi-purpose manufacturing equipment (multi-plants) approach ● Joint research from the earliest stage into such areas as battery materials and additive agents ● Having locations on Sumitomo Chemical's Works enables close collaboration in such areas as quality and production management, reducing indirect expenses
Taoka Chemical Co., Ltd.	In 1955 Sumitomo Chemical invested capital in the company, a leader in the dye business, to strengthen its own dye business.	Through production outsourcing in both directions for such items as electronic materials and pharmaceutical and agrochemical intermediates based on the various organic synthesis technologies and numerous multi-plants held by the company, the company has contributed to the expansion of the Sumitomo Chemical Group's business in the field of fine chemicals.	● Expanded contract manufacturing of pharmaceutical and agrochemical intermediates with numerous multi-plants of the company
Tanaka Chemical Corporation	Sumitomo Chemical invested capital in the company in 2013 and began joint development of high-capacity cathode materials for automobiles. Afterwards, in light of the smooth progress in joint development work, and in light of expectations that, in line with the future growth of the environmentally friendly vehicles market, there would be significant medium- to long-term growth in the market for lithium-ion secondary batteries, the company was converted to a majority-owned subsidiary in 2016.	Through integration of the technologies relating to precursors held by the company and the findings related to cathode materials held by Sumitomo Chemical, the company accelerates joint development of new products and contributes to the full-scale market entry and expansion of the Sumitomo Chemical Group's cathode materials business.	● Contribute to a drastic rationalization of the manufacturing process and optimization of research and development through integration of the technologies of both companies. ● Sumitomo Chemical's capital investment and guidance has improved the company's management level in such areas as labor accidents and internal control

Corporate Governance

Building an Effective Governance System

When Sumitomo Chemical and its listed subsidiaries jointly work on maximizing group synergy, Sumitomo Chemical respects independent decision making by listed subsidiaries and, at the same time, makes its best efforts to establish an effective governance system in order to avoid any conflicts of interests with minor shareholders.

With respect to the listed subsidiaries, we are taking the following measures to ensure appropriate supervision of such areas as transactions with the parent company and nomination of officers and remuneration of officers, from an independent and objective position.

- Electing sufficient number of Independent Outside Directors.
- Establishing committees for nomination of officers and remuneration of officers, the majority of the members of which are Independent Outside Directors.
- Establishing and reliably operating committees, which aim to monitor and supervise transactions conducted between subsidiaries and the parent company and which is composed of Independent Outside Directors only.

■ Design of the Organization, Composition of Independent Outside Directors and Establishment of Non-mandatory Committees in Each Company

Company Name	Design of Organization	Composition of the Board	Non-mandatory Committees Established	
		Ratio of Outside Directors	Nomination/Remuneration	Monitoring and Supervision of Such Areas as Transactions with the Parent Company
Sumitomo Pharma Co., Ltd.	Company with Board of Corporate Auditors	44% (4/9)	Nomination Remuneration	Supervising for Conflict of Interests Arising from Transactions Conducted among Group Companies
Koei Chemical Co., Ltd.	Company with Audit and Supervisory Committee	44%(4/9)	Nomination Remuneration	Supervising for Conflict of Interests Arising from Transactions Conducted among Group Companies
Taoka Chemical Co., Ltd.	Company with Audit and Supervisory Committee	33% (4/12)	Nomination Remuneration	Supervising for Conflict of Interests Arising from Transactions Conducted among Group Companies
Tanaka Chemical Corporation	Company with Audit and Supervisory Committee	57% (4/7)	Nomination Remuneration	Supervising for Conflict of Interests Arising from Transactions Conducted among Group Companies

Corporate Governance

Cross-Shareholdings

Sumitomo Chemical strategically holds shares in other companies only when judged necessary for ensuring smooth business operation or maintaining and enhancing mutual business relations, after such factors as medium- to long-term economic rationality and prospects of future business developments have been considered as a whole. Also, at the Board of Directors meeting, each year, we shall assess our shareholding policy for all listed shares we own, in light of medium- to long-term economic rationality and significance to hold such shares for each individual issuer.

According to such review, if it becomes less necessary to hold a share by reason of changes in the business environment, etc., we shall sell such shares, as appropriate, taking into consideration such factors as the share price and market trends. Continuing from the prior year, we sold a portion of these shareholdings in FY2021.

Trend in Sales of Cross-Shareholdings*

	FY2020	FY2021
Number of shares	11	4
Value of shares sold (Billions of yen)	13.0	7.3

Balance of Cross-Shareholdings* at End of Period

	FY2020	FY2021
Number of shares	54	50
Total value recorded on the balance sheet (Billions of yen)	97.8	94.0

* Excluding shares of unlisted companies

Corporate Governance

Directors & Senior Management (As of July 1, 2022)

■ Number of shares held (as of March 31, 2022) ■ Number of attendances at Board of Directors meetings for fiscal 2021

Position/Name	Career/ ◆ Reasons for Appointment
 **Masakazu Tokura** Chairman of the Board Birth Date: July 10, 1950 ■ 274,400 ■ 13/13 times (100%)	1974 Joined Sumitomo Chemical Co., Ltd. 2003 Executive Officer 2006 Managing Executive Officer 2008 Representative Director & Managing Executive Officer 2009 Representative Director & Senior Managing Executive Officer 2011 Representative Director & President 2019 Chairman of the Board (current) 2021 Chairman of KEIDANREN (Japan Business Federation) (current) ◆ He served as Director & President for eight years from April 2011 to March 2019, contributing to the Company's sustained growth and increased corporate value. Since April 2019, he has been serving as Chairman of the Board of Directors, focusing on the operations of the Board of Directors and other matters.
 **Keiichi Iwata** Representative Director & President Birth Date: October 11, 1957 ■ 171,700 ■ 13/13 times (100%)	1982 Joined Sumitomo Chemical Co., Ltd. 2010 Executive Officer 2013 Managing Executive Officer 2018 Senior Managing Executive Officer 2018 Representative Director & Senior Managing Executive Officer 2019 Representative Director & President (current) ◆ Since joining the Company, he has mainly engaged in business planning in the Fine Chemicals Sector and the IT-related Chemicals Sector and has worked abroad in Belgium. After his appointment as an Executive Officer, he experienced planning and administration as well as sales management and was in charge of the Energy & Functional Materials Sector as Senior Managing Executive Officer in 2018. He worked to promote the Previous Corporate Business Plan (from April 2019 to March 2022) as a Director & President since April 2019. He is also working to develop and promote the current Corporate Business Plan.
 **Noriaki Takeshita** Representative Director & Senior Managing Executive Officer Birth Date: July 23, 1958 ■ 96,100 ■ 13/13 times (100%)	1982 Joined Sumitomo Chemical Co., Ltd. 2010 Executive Officer 2013 Managing Executive Officer 2016 Deputy Chairman, Rabigh Refining and Petrochemical Company (current) 2017 Representative Director & Managing Executive Officer 2018 Representative Director & Senior Managing Executive Officer (current) Current charge : Essential Chemicals & Plastics Sector, Business Development for a Circular System for Plastics ◆ Since joining the Company, he has mainly engaged in business planning and production planning in the Petrochemicals & Plastics Sector and has worked abroad in Singapore and Saudi Arabia (the Rabigh Project). After his appointment as an Executive Officer, he experienced planning and administration as well as sales management. Currently, as Director & Senior Managing Executive Officer, he oversees the Essential Chemicals & Plastics Sector and the Business Development for a Circular System for Plastics.
 **Masaki Matsui** Representative Director & Senior Managing Executive Officer Birth Date: August 3, 1960 ■ 77,421 ■ 13/13 times (100%)	1985 Joined Sumitomo Chemical Co., Ltd. 2013 Executive Officer 2017 Managing Executive Officer 2019 Representative Director & Managing Executive Officer 2021 Representative Director & Senior Managing Executive Officer (current) Current charge : IT-related Chemicals Sector ◆ Since joining the Company, he has mainly engaged in business planning and sales/marketing in the Fine Chemicals Sector and the IT-related Chemicals Sector. When he was responsible for business planning for optical products, he contributed to significantly expanding the business not only in Japan but also in South Korea, Taiwan, and China. He is currently in charge of the IT-related Chemicals Sector as Director & Senior Managing Executive Officer.
 **Kingo Akahori** Representative Director & Senior Managing Executive Officer Birth Date: August 2, 1957 ■ 56,600 ■ 13/13 times (100%)	1983 Joined Sumitomo Chemical Co., Ltd. 2015 Associate Officer 2016 Executive Officer 2018 Managing Executive Officer 2019 Representative Director & Managing Executive Officer 2021 Representative Director & Senior Managing Executive Officer (current) Current charge : Energy & Functional Materials Sector ◆ Since joining the Company, he has engaged in a wide range of operations such as research and development, production technology, planning, and sales, in addition to being dispatched to the Swiss Federal Institutes of Technology and working overseas in the United States. After his appointment as an Executive Officer, he was responsible for the newly established Quality Assurance Office and divisions in the Energy & Functional Materials Sector, contributing to the growth and expansion of the sector. He is currently in charge of the Energy & Functional Materials Sector as Director & Senior Managing Executive Officer.
 **Nobuaki Mito** Representative Director & Senior Managing Executive Officer Birth Date: August 4, 1960 ■ 62,700 ■ 13/13 times (100%)	1985 Joined Sumitomo Chemical Co., Ltd. 2014 Associate Officer 2015 Executive Officer 2018 Managing Executive Officer 2020 Chairman, Valent U.S.A. LLC (current) Chairman, Valent BioSciences LLC (current) 2020 Representative Director & Managing Executive Officer 2021 Representative Director & Senior Managing Executive Officer (current) Current charge : Health & Crop Sciences Sector ◆ Since joining the Company, he has mainly engaged in research and development in the Health & Crop Sciences Sector and experienced being dispatched to University of California, Davis in the United States. After his appointment as an Executive Officer, he was responsible for the pharmaceutical business and other areas in the Corporate Business Development Dept., working on the development of next-generation businesses. He is currently in charge of the Health & Crop Sciences Sector as Director & Senior Managing Executive Officer.

Corporate Governance

■ Number of shares held (as of March 31, 2022) ■ Number of attendances at Board of Directors meetings for fiscal 2021

Position/Name	Career/ ◆ Reasons for Appointment

Hiroshi Ueda
Director &
Executive Vice President

Birth Date: August 5, 1956
■ 136,500
■ 13/13 times (100%)

1982 Joined Sumitomo Chemical Co., Ltd.
2008 Associate Officer
2009 Executive Officer
2011 Managing Executive Officer
2016 Senior Managing Executive Officer
2016 Representative Director & Senior Managing Executive Officer
2018 Director & Senior Managing Executive Officer
2019 Director & Executive Vice President (current)

Current charge : Research Planning and Coordination, Digital and Data Science Innovation, Process & Production Technology & Safety Planning, Production & Safety Fundamental Technology Center, Engineering, Intellectual Property, Responsible Care, Industrial Technology & Research Laboratory, Environmental Health Science Laboratory, Advanced Materials Development Laboratory, Bioscience Research Laboratory

◆ Since joining the Company, he has mainly engaged in manufacturing and industrial research. In addition to them, he was responsible for business development, business planning, and safety/environment/hygiene-related operations at each plant after his appointment as an Executive Officer. He was in charge of the Energy & Functional Materials Sector as Senior Managing Executive Officer since 2016 and is currently in charge of Research Planning and Coordination, Digital and Data Science Innovation, Process & Production Technology & Safety Planning, Engineering, Responsible Care, and corporate research facilities as a Director & Executive Vice President.

Hiroshi Niinuma
Director &
Executive Vice President

Birth Date: March 5, 1958
■ 102,900
■ 13/13 times (100%)

1981 Joined Sumitomo Chemical Co., Ltd.
2010 Executive Officer
2013 Managing Executive Officer
2018 Senior Managing Executive Officer
2018 Director & Senior Managing Executive Officer
2022 Director & Executive Vice President (current)

Current charge : General Affairs, External Relations, Legal, Human Resources

◆ Since joining the Company, he has mainly engaged in the operations of general affairs and human resources. After his appointment as an Executive Officer, he was also responsible for administrative departments such as Legal, CSR, Internal Control and Audit, Corporate Communication, Procurement, Logistics, etc. and worked on ensuring compliance, developing and improving a corporate governance structure. He is currently in charge of General Affairs, External Relations, Legal, and Human Resources as Director & Executive Vice President.

Hiroshi Tomono
Outside Director

Birth Date: July 13, 1945
■ 0
■ 13/13 times (100%)

1971 Joined Sumitomo Metal Industries, Ltd.
2005 Representative Director & President, Sumitomo Metal Industries, Ltd.
2012 Representative Director & President & COO, Nippon Steel & Sumitomo Metal Corporation
2014 Representative Director & Vice Chairman, Nippon Steel & Sumitomo Metal Corporation
2015 Director & Advisor, Nippon Steel & Sumitomo Metal Corporation
2015 Outside Director, Sumitomo Chemical Co., Ltd. (current)
2015 Advisor, Nippon Steel & Sumitomo Metal Corporation
2016 Outside Director, Japan Nuclear Fuel Limited (current)
2020 Senior Advisor, NIPPON STEEL CORPORATION (current)
2020 Outside Director, The Kansai Electric Power Co., Inc. (current)

◆ He can be expected to make decisions on important management matters at the Board of Directors of the Company, appropriately oversee business execution, provide well-balanced advice based on an extensive view on overall management, make recommendations based on his expertise in research, technology, manufacturing and other areas, and support appropriate risk-taking, by making use of his abundant experience and extensive knowledge as a management executive of a business corporation.

Motoshige Itoh
Outside Director

Birth Date: December 19, 1951
■ 0
■ 13/13 times (100%)

1993 Professor, Faculty of Economics, The University of Tokyo
1996 Professor, Graduate School of Economics, The University of Tokyo
2007 Dean, Graduate School of Economics, Faculty of Economics, The University of Tokyo
2015 Outside Director, East Japan Railway Company (current)
2016 Professor Emeritus, The University of Tokyo (current)
2016 Professor, Faculty of International Social Sciences, Gakushuin University
2018 Outside Director, THE SHIZUOKA BANK, LTD. (current)
2018 Outside Director, Sumitomo Chemical Co., Ltd. (current)
2022 Outside Director, JX Nippon Mining & Metals Corporation (current)
2022 Outside Director, Hagoromo Foods Corporation (current)

◆ He can be expected to make decisions on important management matters at the Board of Directors of the Company, appropriately oversee business execution, and provide advice and recommendations based on his advanced expertise, by making use of his expert knowledge of economics, etc. through his long experience as a university professor and his wealth of experience and extensive knowledge of economic, social and other issues from his track record as a member of various government deliberative committees.

Atsuko Muraki
Outside Director

Birth Date: December 28, 1955
■ 0
■ 13/13 times (100%)

1978 Joined Ministry of Labour
2005 Counsellor for Policy Evaluation, Minister's Secretariat, Ministry of Health Labour and Welfare
2006 Deputy Director-General, Equal Employment, Children and Families Bureau, Ministry of Health Labour and Welfare
2008 Director-General, Equal Employment, Children and Families Bureau, Ministry of Health Labour and Welfare
2010 Director-General for Policies on Cohesive Society, Cabinet Office
2012 Director-General, Social Welfare and War Victims' Relief Bureau, Ministry of Health Labour and Welfare
2013 Vice Minister, Health Labour and Welfare, Ministry of Health Labour and Welfare
2015 Retired from Ministry of Health Labour and Welfare
2016 Outside Director, ITOCHU Corporation (current)
2018 Outside Director, Sumitomo Chemical Co., Ltd. (current)

◆ She can be expected to make decisions on important management matters at the Board of Directors of the Company, appropriately oversee business execution, and provide advice and recommendations based on her advanced expertise, by making use of her wealth of experience and extensive knowledge in legal, social and other issues deriving from her employment over many years at administrative bodies as a civil servant as well as her expertise especially in human resources.

Akira Ichikawa
Outside Director

Birth Date: November 12, 1954
■ 0
■ –/– times (–%)

1978 Joined Sumitomo Forestry Co., Ltd.
2010 Representative Director & President, Sumitomo Forestry Co., Ltd.
2020 Representative Director, Chairman of the Board, Sumitomo Forestry Co., Ltd. (current)
2021 Outside Director, Konica Minolta, Inc. (current)
2022 Outside Director, Sumitomo Chemical Co., Ltd. (current)

◆ He can be expected to make decisions on important management matters at the Board of Directors of the Company, appropriately oversee business execution, provide well-balanced advice based on an extensive view on overall management, make recommendations based on his expertise in global operations, sustainability, and other areas, and support appropriate risk-taking, by making use of his abundant experience and extensive knowledge as a management executive of a business corporation.

Corporate Governance

■ Number of shares held (as of March 31, 2022) ■ Number of attendances at Board of Directors meetings for fiscal 2021 ○ Number of attendances at Corporate Auditors meetings for fiscal 2021

Position/Name	Career/ ◆ Reasons for Appointment

Kunio Nozaki
Standing Corporate Auditor

Birth Date: October 29, 1956
■ 89,700
■ 13/13 times (100%)
○ 14/14 times (100%)

1979 Joined Sumitomo Chemical Co., Ltd.
2007 Executive Officer
2009 Managing Executive Officer
2014 Senior Managing Executive Officer
2014 Representative Director & Senior Managing Executive Officer
2018 Director & Senior Managing Executive Officer
2019 Director
2019 Corporate Auditor (current)

◆ Since joining the Company, he has worked mainly in accounting and finance operations, and has deep knowledge and experience related to these areas. He was also appointed as Director & Senior Managing Executive Officer in 2014, and has worked in the management of the Company. He will make use of this abundant knowledge and experience related to accounting and finance, and his experience and extensive knowledge as a management executive in auditing the Company in future.

Hiroaki Yoshida
Standing Corporate Auditor

Birth Date: March 2, 1956
■ 20,600
■ 13/13 times (100%)
○ 14/14 times (100%)

1980 Joined Sumitomo Chemical Co., Ltd.
2009 General Manager, Internal Audits (Currently Internal Control and Audits)
2010 General Manager, Planning & Coordination Office, Petrochemicals & Plastics Sector (Currently Planning & Coordination Office, Essential Chemicals & Plastics Sector)
2012 General Manager, Planning & Coordination Office, Rabigh Project & General Manager, Planning & Coordination Office, Petrochemicals & Plastics Sector
2015 Corporate Auditor (current)

◆ Since joining the Company, he has experience of operations in planning, legal, and other administrative sectors, and has also worked in an overseas posting in Saudi Arabia, in addition to serving as General Manager of the Internal Audit Dept., and General Manager of the Planning & Coordination Office, Petrochemicals & Plastics Sector. He will make use of his abundant knowledge and experience regarding the Company's business in auditing the Company.

Mitsuhiro Aso
Outside Corporate Auditor

Birth Date: June 26, 1949
■ 0
■ 13/13 times (100%)
○ 14/14 times (100%)

1975 Prosecutor
2010 Superintending Prosecutor, the Fukuoka High Public Prosecutors Office
2012 Retirement as Prosecutor
2012 Registered as Attorneys (current)
2013 Outside Corporate Auditor, Sumitomo Chemical Co., Ltd. (current)
2019 Outside Director, Sumitomo Mitsui Trust Holdings, Inc. (current)

◆ He will make use of his expert knowledge and abundant experience as an attorney and prosecutor over many years for the Company's audits.

Yoshitaka Kato
Outside Corporate Auditor

Birth Date: September 17, 1951
■ 0
■ 12/13 times (92%)
○ 14/14 times (100%)

1978 Registered as a certified public accountant (current)
2008 CEO, ShinNihon LLC (Currently Ernst & Young ShinNihon LLC)
2014 Retired from ShinNihon LLC (Currently Ernst & Young ShinNihon LLC)
2015 Outside Corporate Auditor, Sumitomo Chemical Co., Ltd. (current)
2015 Outside Corporate Auditor, Mitsui Fudosan Co., Ltd. (current)
2016 Outside Corporate Auditor, Sumitomo Corporation (current)

◆ He will make use of his expert knowledge and abundant experience as a certified public accountant over many years in auditing the Company.

Michio Yoneda
Outside Corporate Auditor

Birth Date: June 14, 1949
■ 2,000
■ 13/13 times (100%)
○ 14/14 times (100%)

1973 Joined Bank of Japan
1998 General Manager, Sapporo Branch of Bank of Japan
2000 Retired from Bank of Japan
2000 Executive Director, Osaka Securities Exchange (Currently Japan Exchange Group, Inc.)
2003 President & CEO, Osaka Securities Exchange Co., Ltd.
2013 Director & Representative Executive Officer, Group COO, Japan Exchange Group, Inc. Director, Tokyo Stock Exchange, Inc.
2015 Resigned as Director & Representative Executive Officer, Group COO, Japan Exchange Group, Inc. Resigned as Director, Tokyo Stock Exchange, Inc.
2018 Outside Director, Asahi Broadcasting Group Holdings Corporation (current)
2018 Outside Corporate Auditor, Sumitomo Chemical Co., Ltd. (current)
2020 Outside Director, Toyo Tire Corporation (current)

◆ He will make use of his wealth of experience and extensive knowledge of industry and social and other issues through his long career in financial and securities market management in Japan for the Company's audits.

Corporate Governance

Position/Name	In Charge
 **Takashi Shigemori** Senior Managing Executive Officer	Corporate Planning, IT Innovation
 **Marc Vermeire** Managing Executive Officer	Sumitomo Chemical Agro Europe S.A.S., Sumitomo Chemical Europe S.A./N.V.
 **Keiichi Sakata** Managing Executive Officer	Sumitomo Chemical Asia Pte Ltd
 **Motoyuki Sakai** Managing Executive Officer	Inorganic Materials Div., Specialty Chemicals Div., Advanced Polymers Div., Battery Materials Div.
 **Seiji Takeuchi** Managing Executive Officer	Planning & Coordination Office, Essential Chemicals & Plastics Sector, Responsible Care Dept., Essential Chemicals & Plastics Sector, Basic Materials Div., Industrial Chemicals Div., Essential Chemicals Research Laboratory
 **Naoyuki Inoue** Managing Executive Officer	Procurement, Logistics
 **Keigo Sasaki** Managing Executive Officer	Corporate Communications, Accounting, Finance
 **Kenji Ohno** Managing Executive Officer	Sustainability, Internal Control and Audit, Legal Dept.
 **Shinichiro Nagata** Managing Executive Officer	Ehime Works
 **Yoshizumi Sasaki** Managing Executive Officer	Business Development Office for a Circular System for Plastics, Resin-related Business Development Dept., Polyolefins Div., Automotive Materials Div., MMA Div.
 **Ichiro Kosaka** Managing Executive Officer	Planning & Coordination Office, Energy & Functional Materials Sector, Quality Assurance Office, Energy & Functional Materials Sector
 **Takanari Yamaguchi** Managing Executive Officer	Research Planning & Coordination Dept., Digital and Data Science Innovation Dept., Intellectual Property Dept., Industrial Technology & Research Laboratory, Advanced Materials Development Laboratory
 **Hirokazu Murata** Managing Executive Officer	Oita Works, Misawa Works
 **Koichi Ogino** Managing Executive Officer	Chiba Works
 **Juan Ferreira** Managing Executive Officer	Work related to South American businesses of the Health & Crop Sciences Sector and Valent U.S.A.
 **Shinsuke Shojima** Managing Executive Officer	AgroSolutions Div. – International, Animal Nutrition Div.

Position/Name	In Charge
 **Akira Iwasaki** Executive Officer	Planning & Coordination Office, Energy & Functional Materials Sector, Quality Assurance Office, Energy & Functional Materials Sector
 **Inho Rha** Executive Officer	Dongwoo Fine-Chem Co., Ltd.
 **Akira Nakanishi** Executive Officer	Planning & Coordination Office, IT-related Chemicals Sector, Electronic Materials Div.
 **Masao Shimizu** Executive Officer	Human Resources Dept., Osaka Office Administration Dept.
 **Hiroaki Fujimoto** Executive Officer	AgroSolutions Div. – Japan
 **Kanako Fukuda** Executive Officer	Sumitomo Chemical Europe S.A./N.V.
 **Hiroyoshi Mukai** Executive Officer	Planning & Coordination Office, Health & Crop Sciences Sector, Quality Assurance Office, Health & Crop Sciences Sector
 **Takanori Ito** Executive Officer	Process & Production Technology & Safety Planning Dept., Production & Safety Fundamental Technology Center, Responsible Care Dept.
 **Yoshihiro Ino** Executive Officer	IT Innovation Dept.
 **Tetsuo Takahashi** Executive Officer	Planning & Coordination Office, Essential Chemicals & Plastics Sector
 **Tomoyuki Hirayama** Executive Officer	General Affairs Dept., External Relations Dept.
 **Satoshi Honda** Executive Officer	Planning & Coordination Office, IT-related Chemicals Sector, Quality Assurance Office, IT-related Chemicals Sector
 **Takeo Kitayama** Executive Officer	Corporate Planning Office
 **Noriaki Oku** Executive Officer	Rabigh Refining and Petrochemical Company
 **Junpei Tsuji** Executive Officer	Research Planning Coordination Office
 **Toshihiro Yamauchi** Executive Officer	Accounting Dept.

Corporate Governance

Expertise and Experience of Directors and Corporate Auditors

	Corporate Management	Business Strategy/ Marketing	Technology/ Research	Global	ESG/ Sustainability	Finance/ Accounting	Human Resources and Labor	Legal/ Compliance/ Internal Control	Knowledge of Other Specialized Fields
Board of Directors									
Masakazu Tokura	●	●		●					
Keiichi Iwata	●	●		●					
Noriaki Takeshita		●		●		●			
Masaki Matsui		●				●			
Kingo Akahori		●	●	●					
Nobuaki Mito		●	●						● (Intellectual Property)
Hiroshi Ueda		●	●						● (IT/DX)
Hiroshi Niinuma					●		●	●	
Hiroshi Tomono	●		●		●				
Motoshige Itoh				●					● (International Economics) ● (IT/DX)
Atsuko Muraki					●		●	●	
Akira Ichikawa	●			●	●				
Corporate Auditors									
Kunio Nozaki				●		●			
Hiroaki Yoshida		●		●				●	
Mitsuhiro Aso				●	●			●	
Yoshitaka Kato				●		●		●	
Michio Yoneda	●				●				● (Financial Markets)

Note: In the table above, each person's main areas of expertise and experience, up to a maximum of three areas, are designated with a ●.

Internal Control

Status of the Development of the Internal Control System

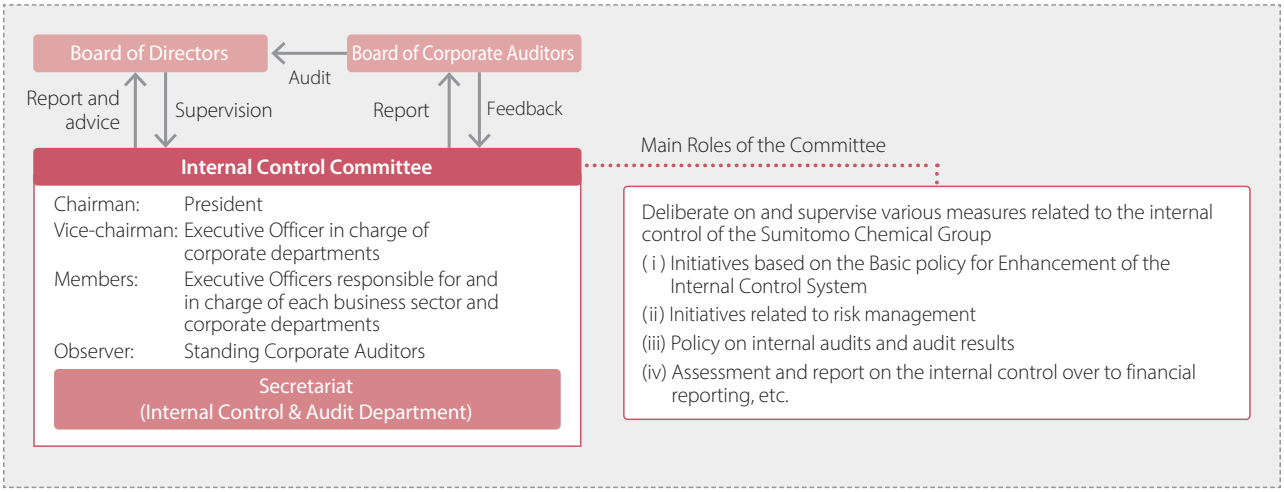
Sumitomo Chemical established its Basic policy for Enhancement of the Internal Control System by a resolution of the Board of Directors, creating a system to ensure the appropriateness of its operations as stipulated in the Companies Act.

As stated in the basic concept of this policy, we recognize that the development of an internal control system is a necessary process for maintaining a sound organization and should be actively utilized to achieve business objectives. To continuously enhance our internal control system, we have formed the Internal Control Committee, which is chaired by the President and consists of Executive Officers responsible for and in charge of each business sector and corporate department. Regular meetings of the committee are held three times a year.

At Sumitomo Chemical, the Internal Control Committee plays a central role in discussing various measures based on the basic policy described above. The committee also operates a PDCA (plan-do-check-act) cycle by monitoring the implementation status of those measures, and constantly inspects and strengthens the Group's internal control system in response to changes in the Group's business and operating environment, so that the Group's internal control system can function effectively.

The Standing Corporate Auditors attend the committee as observers, and the committee's operations are conducted by the Internal Control & Audit Department, independent of other business activities. Summaries of the matters covered in the committee are reported to the Board of Corporate Auditors after each meeting. These summaries are then reported to the Board of Directors for deliberation.

■ Organization of the Internal Control Committee



Basic policy for Enhancement of the Internal Control System

https://www.sumitomo-chem.co.jp/english/company/files/docs/InternalControlSystem_20190329_e.pdf

Internal Control

The Internal Structure regarding Timely Disclosure

The Corporate Communications Department is in charge of working in conjunction with other relevant departments to continually disclose necessary information in a timely manner. In addition to items requiring disclosure under Japan's Financial Instruments and Exchange Act and under stock exchange regulations, we also actively disclose information that may be considered material to the decisions of investors. We endeavor to build stronger relationships of trust with society and capital markets by publishing documentation in accordance with the rules stipulated by the security exchanges in Japan, including reports on the company's corporate governance philosophy and system, and notifications showing that Outside Directors and Corporate Auditors have no existing conflicts of interest with general shareholders. These documents are available on the website of Japan Exchange Group Inc.

Corporate Governance Report

https://www.sumitomo-chem.co.jp/english/company/files/docs/governance_report_e.pdf

Internal Audits

As part of its internal control monitoring activities, Sumitomo Chemical has established a dedicated organization within the company to conduct internal audits, in addition to audits by the Corporate Auditor and Financial Statement auditors. The Internal Control & Audit Department conducts internal audits for all matters related to the execution of operations by the company and its Group companies, and dedicated audit teams for the Responsible Care Department conduct Responsible Care auditing from the perspective of safety, health and environment, and quality throughout the life cycle of chemical products. Internal audits and Responsible Care audits are coordinated with each other as needed.

In case any serious matter relating to internal controls is found, the matter will be promptly reported to the Executive Officer of relevant reporting line and the Board of Corporate Auditors (or in the event of a finding concerning senior management, to the Board of Corporate Auditors and the Executive Director of the Compliance Committee).

① Internal Audits

Department Conducting the Audits	Internal Control & Audit Department
Objective of Internal Audit	Evaluate whether internal controls are in place, operating, and functioning appropriately from various perspectives, including maintaining the effectiveness and efficiency of operations, ensuring the reliability of financial reporting, and complying with relevant laws and statutes in all business activities
Audit Cycle	In principle, once every 2 – 5 years for each separately audited unit
Sharing of Audit Results and Status of Improvements	• Reported to the Internal Audit Liaison Meeting (Held regularly, four times a year, attended by Standing Corporate Auditors and a number of departments, including the Legal Department, the Human Resources Department, the Accounting Department, and the planning & coordination offices of each business sector) • Reported to the Internal Control Committee (Held regularly, three times a year)

② Responsible Care Audits

Department Conducting the Audits	Teams of dedicated auditors from the Responsible Care Department
Objective of Internal Audit	Evaluate whether internal controls relating to securing safety, health and environment, as well as maintaining and improving quality for all chemical products over their lifecycle, are in place, operating, and functioning appropriately.
Audit Cycle	In principle, once every 1 – 3 years for each separately audited unit
Sharing of Audit Results and Status of Improvements	• Reported internally as necessary • Reported to the Responsible Care Committee (Held regularly, once a year)

Risk Management

To achieve sustainable growth, Sumitomo Chemical makes an effort to detect, at an early stage, various risks that may hinder the achievement of its business objectives, and takes proper measures. We focus on building and expanding a system relating to risk management so that we can promptly and properly address risks when they emerge.

Systems for Promoting Risk Management

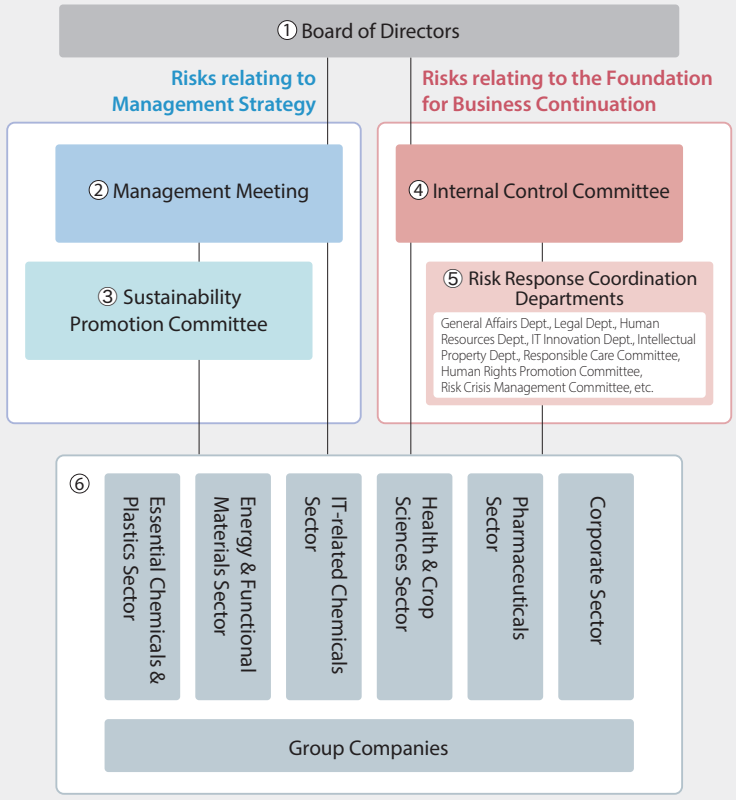
At Sumitomo Chemical, as part of its standard duties, each of the Group's organizations is taking various measures to properly manage risks associated with its business operations. In addition to this, a variety of committees work together to promote the Group's risk management.

The Internal Control Committee sets policies relating to risk management for the Group as a whole and monitors the efforts of each organization in accordance with those policies, collecting risk-related information and evaluating it, among other tasks. This committee creates a risk map for the Group as a whole each year, aiming not only to comprehensively capture the status of risks relating to management strategy and the foundation for business continuation, but also to coordinate with risk response coordination departments, promoting countermeasures for important risks relating to the foundation for business continuation, such as earthquakes, workplace accidents, and product-related accidents, on a Group-wide level.

On the other hand, Management Meetings are held as appropriate to deliberate important topics relating to management (refer to page 28), particularly management strategy for the company and the Group, capital expenditure, and other investments, from the perspectives of both risks and opportunities. Furthermore, the Sustainability Promotion Committee makes necessary recommendations to various organizations in the Group so as to ensure that the various management activities of the Group contribute to achieving sustainability for the company and society (refer to page 31), evaluating medium- to long-term environmental and societal issues from the perspectives of both risks and opportunities.

Summaries of the matters covered in the Internal Control Committee and important matters deliberated in the Management Meetings are reported to the Board of Directors.

■ Diagram of Systems for Promoting Risk Management



① Board of Directors
The Board ensures the effectiveness of risk management by deliberating and supervising the activities of the Internal Control Committee and important matters deliberated in the Management Meetings.

② Management Meeting
Concerning important matters for management, including management strategy and capital spending for each organization of the Group, it deliberates in terms of risks and opportunities.

③ Sustainability Promotion Committee
This committee makes necessary recommendations to various Group organizations in order to achieve sustainability for both the company and society, taking into consideration the perspectives of both risks and opportunities with respect to medium- to long-term environmental and societal issues.

④ Internal Control Committee
This committee deliberates policies relating to risk management for the Group as a whole, and audits the efforts of various organizations based on these policies. It also promotes risk countermeasures relating to the foundation for business continuation.

⑤ Risk Response Coordination Departments
Each organization plans and promotes Group-wide countermeasures for the risks assigned to it, in cooperation with each department and Group company.

⑥ Each Department and Group Company
The main bodies for promoting risk management. The organizations develop and implement countermeasures for the risks affecting their own organization or company.

Risk Management

Promotion of Group-wide Priority Risk Assessment and Countermeasures

Every year, approximately 120 major organizations within both Sumitomo Chemical and Group companies around the world conduct risk evaluations using a list of risks compiled by the Company to assess the probability of occurrence and the potential impact of various risks that could hinder the achievement of business objectives to create risk maps. These maps are then aggregated by the Internal Control & Audit Department to create a Group-wide priority risk map.

The department uses this Group-wide risk map to assess important risks that require Group-wide countermeasures and create risk management policies. As listed under the Systems for Promoting Risk Management (refer to page 80), each meeting body collaborates to promote the Group's risk management.

In addition, each organization within the Group considers risk countermeasures based on their own risk map and with reference to the Group-wide risk map. As necessary, they take countermeasures in collaboration with the Company's sectors and Risk Response Coordination Departments. In this way, they conduct efficient and effective risk management.

Evaluating Risks and Promoting Countermeasures

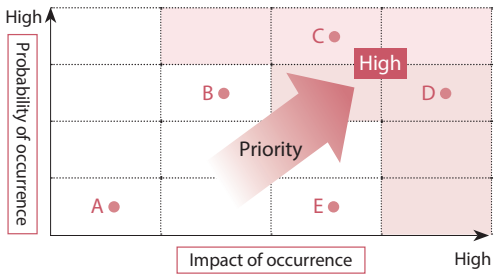
Risk Maps Created by Each Internal Department and Group Company

Each organization identifies risks critical to its own execution of duties and advances countermeasures.

Consolidation

Group-wide Risk Map

The Internal Control Committee identifies priority risks that require Group-wide countermeasures and advances them across the Group.



Identify priority risks (C, D) using risk maps that lay out the results of assessments of the probability of occurrence and degree of impact for various risks.

List of Risk Items

To evaluate Group-wide risks, the Risk Response Coordination Departments have cooperated to create a list of risk items that broadly encompasses the Group's business activities, from management strategies to risks related to the fundamental drive to remain a going concern.

The list of risk items has been divided into seven fields with accompanying case studies and a detailed explanation of the assessment standards to be used when evaluating each risk item. Moreover, in line with changes in the Group's business activities and social conditions, the items will be amended as appropriate, for example by adding risk items or revising case studies.

Field	Example of Risks Included in the List
Business risks	Interruptions in the supply of raw materials, fuel, or products, rapid price fluctuations, industrial reforms, price competition, technological innovations, digital innovations, extreme weather events, changes in standards and rules, rapid fluctuations in demand
Political and social risks	GHG problems, plastic waste problems, country risks, terrorism, changes to legal systems and policies
Accident and disaster risks	Earthquakes, tsunamis, volcanic eruptions, typhoons, tornadoes, floods, fires, explosions, product-related accidents, environmental pollution, ground subsidence, interruptions in or restrictions of the supply of electricity, gas, water, or other utilities
Legal violation and compliance risks	Bribery, collusion, falsification, scandals, criminal behavior, antitrust violations, export control regulation violations, infringement of intellectual property rights, insider trading
Personnel and labor risks	Workplace accidents, human rights problems, mental health, harassment, spread of infectious or contagious diseases
Information security risks	Cyberattacks, system failures, confidential information leaks, personal information leaks
Taxation and financial risks	Tax transparency, volatility of managed assets, interest volatility

Risk Factors

https://www.sumitomo-chem.co.jp/english/ir/policy/risk_factors/

Risk Management

Cross-organizational Risks and Crisis Response

We established the Risk Crisis Management Committee to deliberate risks and crisis response policies that affect multiple business sites, departments, and Group companies, such as large-scale disasters (earthquakes, storms, floods, etc.), pandemics, deterioration of security in Japan or overseas (terrorism, riots, wars, etc.), and other issues.

Initiatives Related to the COVID-19 Pandemic

The Sumitomo Chemical Group has taken various initiatives to prevent the spread of COVID-19.

Going forward, we will continue fulfilling our responsibility to maintain supply to customers after ensuring the safety of employees.

In-house Infection Prevention Measures
- Utilizing a telecommuting system
- Staggered office entries and exits utilizing the flextime program
- Mask wearing when commuting and working
- Encouraging moving meetings online

Support for Preventing Infections in Local Communities
- Offer the Company's facilities as local vaccination sites
- Dispatch internal medical personnel to local vaccination sites
- Conduct workplace vaccinations

Sumitomo Chemical Group's Initiatives against the New Coronavirus (COVID-19)

https://www.sumitomo-chem.co.jp/english/company/covid19_response/

Compliance

Basic Policy

The Sumitomo Chemical Group places compliance at the bedrock of its corporate management. As we engage in business in many parts of the world, all of the companies in the Sumitomo Chemical Group are devoting earnest efforts to stay in strict compliance with not only laws and regulations, but also ethical principles in a business environment. Both the spirit and the letter of ensuring compliance in business activities have consistently been enshrined at Sumitomo Chemical ever since the company was founded. This unwavering resolve towards compliance is embodied succinctly in the "Sumitomo Chemical Charter for Business Conduct," which serves as the guideline of conduct for every employee to abide by and constitutes the backbone of our day-to-day compliance activities. In recent years, in particular, companies are expected to fulfill their societal responsibilities more than ever before. Given the circumstances, all companies in the Sumitomo Chemical Group are making concerted efforts to further compliance activities, under the strong leadership of top management, to further enhance compliance in the Group's business activities on a global basis.

The Sumitomo Chemical Charter for Business Conduct and Code of Ethics Embody the Sumitomo Spirit and Business Philosophy

Sumitomo Chemical has established the Sumitomo Chemical Charter for Business Conduct (refer to page 15) to embody the Sumitomo Spirit, Business Philosophy, and Basic Principles for Promoting Sustainability. In addition, to better define the Charter for Business Conduct and more clearly explain it to employees, we established the Sumitomo Chemical Code of Ethics (hereinafter, "the *Compliance Manual*") as corporate rules and distributed them to employees.

Sumitomo Chemical Charter for Business Conduct

https://www.sumitomo-chem.co.jp/english/company/principles/charter/

Compliance Manual

https://www.sumitomo-chem.co.jp/english/sustainability/governance/compliance/rules_society/

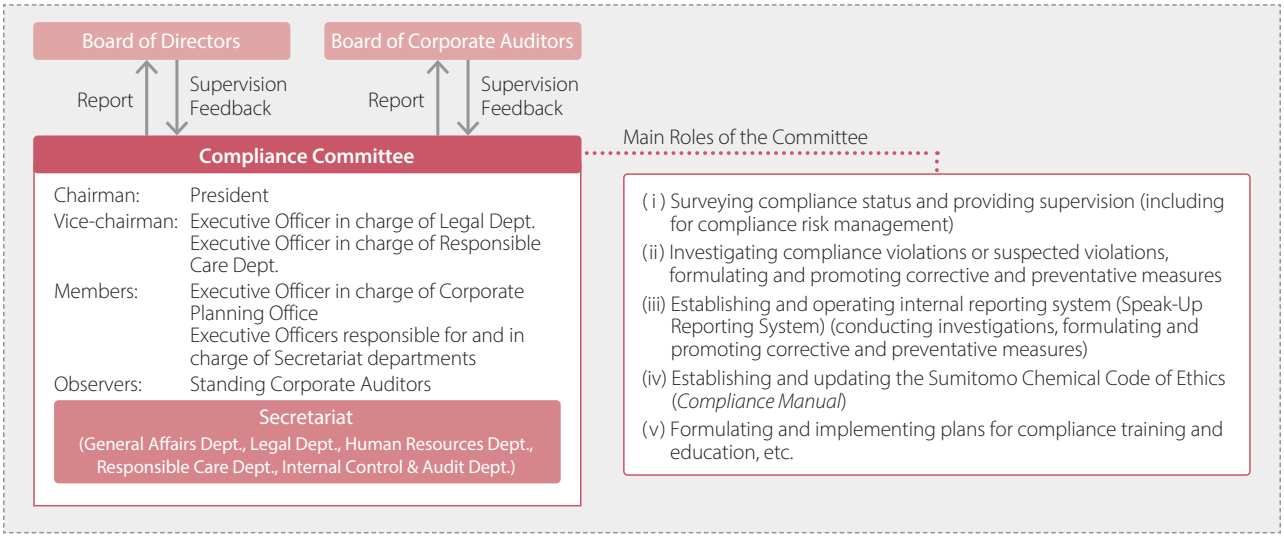
Compliance

Compliance System at the Sumitomo Chemical Group

(1) Compliance Committee

Sumitomo Chemical has established a Compliance Committee chaired by the President and holds a Compliance Committee meeting at least once a year (or more frequently as needed). Details discussed by the committee are reported to Board of Directors and Board of Corporate Auditors, and the committee then receives feedback from them. The committee establishes overarching principles of compliance from a global perspective, and then works with each business sector and Group company, both in Japan and abroad, to build and operate their compliance systems locally in the required manner, according to those global principles.

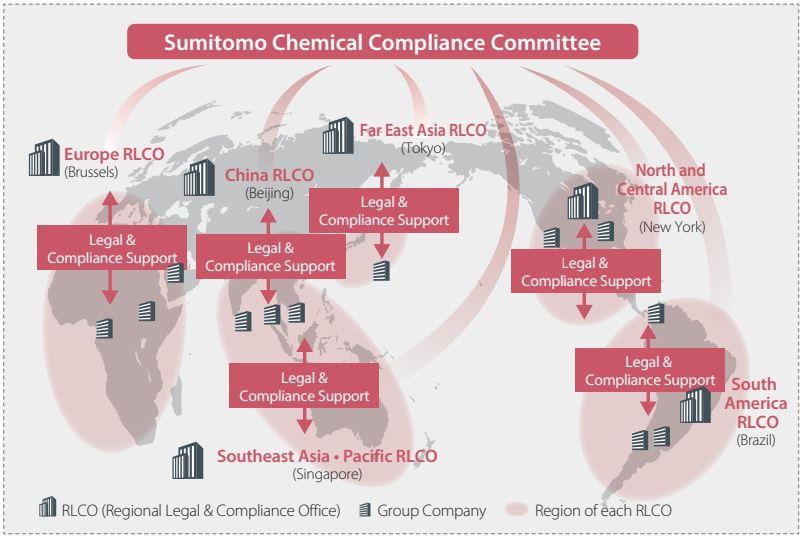
■ Compliance Committee



(2) Group Compliance Structure Focused on Effectiveness "Think globally, Manage regionally, Act locally"

As business globalizes, it becomes more important that the operation of a corporation's compliance system be fine-tuned to situations specific to individual countries or companies. In light of this, we have established Regional Legal & Compliance Offices (RLCOs) in Sumitomo Chemical's major business regions. The RLCOs, grasping the concrete needs and tasks of their respective Group companies, provide hands-on support and guidance to them, such as helping to set and implement necessary internal rules and procedures, building a company's compliance system, and assisting in its operations.

■ Compliance System at Sumitomo Chemical Group



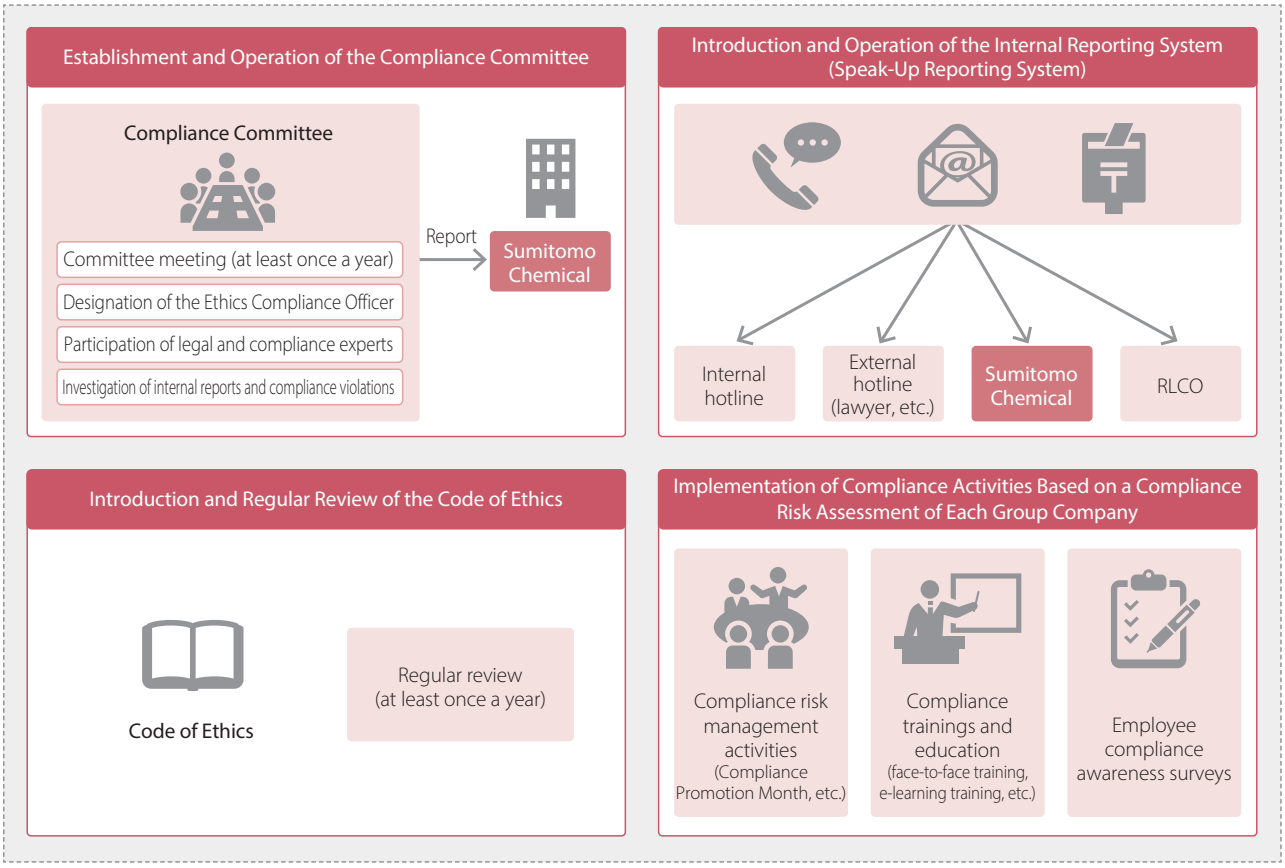
Compliance

(3) Introducing and Operating a Compliance System for the Company and its Group Companies

To ensure thorough compliance throughout the entire Sumitomo Chemical Group, it is important that Sumitomo Chemical and its Group companies establish and operate their own compliance systems. Accordingly, we established the Sumitomo Chemical Group Compliance Standards, which outlines the compliance systems and activities that serve as our standards. In line with these standards, Sumitomo Chemical and its Group companies are engaged in the following main initiatives.

(i) Establishing and operating the Compliance Committee (including responding to internal reports and conducting compliance violation investigations)
(ii) Introducing and regularly reviewing the Code of Ethics
(iii) Introducing and operating the Internal Reporting system (the Speak-Up Reporting System)
(iv) Implementation of compliance activities (education, training, etc.) based on a compliance risk assessment of each Group company

■ Compliance System Operations



Compliance

Internal Reporting System (Speak-Up Reporting System)

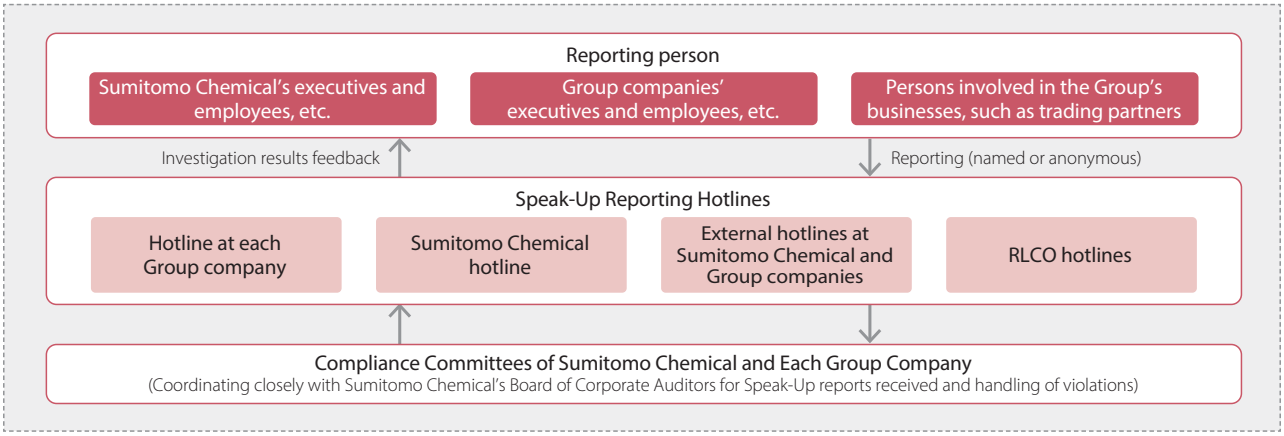
(1) The Internal Reporting System Is the Key to Ensuring Compliance

In order to detect any compliance violations as early as possible or to prevent them from occurring in the future, the Sumitomo Chemical Group has introduced an internal reporting system (the Speak-Up Reporting System) that allows company employees, etc. to report a compliance violation or a suspected violation directly to the Compliance Committee or to external lawyers, either. The Speak-Up Reporting System may be used by Sumitomo Chemical's executives and employees (including contract employees) and their families, Group companies' executives and employees and their families, retirees from the Company or Group companies, and anyone involved in the Group's businesses (including trading partners).

Furthermore, to receive a Speak-Up report without fail, Sumitomo Chemical have set up Speak-Up Reporting Hotlines to receive reports at (i) the Compliance Committees of each Group company, (ii) RLCOs, (iii) the Compliance Committee of Sumitomo Chemical, and (iv) external lawyers designated by these committees. The person reporting can choose the hotline they think most appropriate. In addition, anonymous reports are also accepted and responded to.

Note: Regarding reporting within the European Union, we act in compliance with the various laws and regulations of the European Union or its individual member countries.

■ How a Report is Processed under the Internal Reporting System (Speak-Up Reporting System)



(2) Guidance and Oversight by the Board of Corporate Auditors, Including Outside Corporate Auditors

On the grounds that Speak-Up reports given to the Compliance Committees of Sumitomo Chemical and the Group companies, as well as compliance violation incidents at each company, are also important from a governance perspective, the Board of Corporate Auditors will regularly, or as needed for important issues, receive reports on these reports and violations, and will provide guidance and oversight. Moreover, to further enhance the independence of whistleblower responses related to top management in line with the amended Whistleblower Protection Act, which took effect in June 2022, whistleblower reports regarding top management are submitted only to the Board of Corporate Auditors. The Company takes steps to respond to the report while receiving advice from and being monitored by the Board of Corporate Auditors.

(3) Promoting Use of the Internal Reporting System (Speak-Up Reporting System)

In its *Compliance Manual*, Sumitomo Chemical Group makes clear that the company carries out investigations based on the Speak-Up report with utmost consideration to protecting the privacy of a reporting person and maintaining confidentiality of information provided and that the company doesn't put the truthful reporting person at any disadvantage, such as dismissal, transfer, or discrimination, on the grounds of having made the report. The manual also states that if someone commits a compliance violation but reports it to the company of their own volition and cooperates with the Compliance Committee's investigation, the person is eligible for leniency regarding the disciplinary action that would ordinarily be proscribed. We are raising awareness of these facts among employees. Moreover, to ensure that the Speak-Up Reporting System functions in a truly effective manner, Sumitomo Chemical's Compliance Committee takes every opportunity to explain to employees that Speak-Up reporting will never disadvantage a reporting person. In this regard, the Committee has been working to help employees understand clearly that confidentiality about the reporting is maintained, any disadvantageous treatment to a reporting person is strictly prohibited, and leniency is possible. In addition, the Committee shares with employees information about how far the Speak-Up Reporting System is in use by employees.

Compliance

(4) Latest Results of the Internal Reporting System

As a result of initiatives promoting use of the reporting system, in fiscal 2021, the total number of reports made to the Compliance Committees of Sumitomo Chemical and its Group companies (including listed companies in which the Company holds a stake of 50% or more) was 190, a year-on-year increase of 55 reports. Upon its receipt, each report was worked on, and an investigation was conducted promptly and cautiously into the reported incident. If compliance violations were found or if a situation that might eventually develop into an incident of violation was recognized, corrective measures were taken properly. In addition, information on violation incidents and corrective measures actually taken was shared, as necessary, with other companies of the Group so that they could prevent similar incidents from occurring in their workplace in the future.

■ Number of Reports (Sumitomo Chemical Group*)

	FY2019	FY2020	FY2021
Number of reports	151	135	190

* Includes those listed companies in which the Company holds a stake of 50% or more

(5) Acquired registration under the Whistleblowing Compliance Management System

Sumitomo Chemical renewed its registration under Japan's Whistleblowing Compliance Management System certification ("WCMS Certification") regime, through the regime's "self-declaration of conformity" process, effective as of December 11, 2021.

Through this WCMS Certification and registration, Sumitomo Chemical will continue to strengthen its compliance systems—including its Speak-Up System—to contribute to the sustainable development of the Sumitomo Chemical Group.

Whistleblowing Compliance Management System

Response to Compliance Violations

At Sumitomo Chemical and Group companies, when an executive or employee discovers a compliance violation or suspected violation, the compliance supervisor in the department promptly reports to the relevant department and the Compliance Committee. After submitting a report, an investigation is carried out, and if any compliance violation is discovered, corrective and preventive measures are formulated and rolled out not just to the offending department but to the entire Sumitomo Chemical Group to ensure a recurrence is thoroughly prevented. In addition, the Internal Control & Audit Department and the Responsible Care Department conduct audits from the perspective of compliance. When a compliance violation is discovered through these audits, corrective action is taken directly at that time. In fiscal 2021, there were no major compliance violations related to the Sumitomo Chemical Group's business continuity.

■ FY2021 Number of Compliance Violations (Sumitomo Chemical Group*)

	Number of Compliance Violations
Number of significant compliance violations	0
Significant violations of antitrust and monopoly legislations	0
Significant violations of anti-corruption legislations	0
Significant violations of laws or regulations in the social and economic area besides those mentioned above	0

* Includes those listed companies in which the Company holds a stake of 50% or more

Compliance

Results of Main Compliance Activities in the Sumitomo Chemical Group

(1) Compliance Committee Meetings

Sumitomo Chemical and its Group companies have established Compliance Committees, which convene either regularly (at least once a year) or as appropriate. Sumitomo Chemical's Compliance Committee convened on April 21, 2022, and reported its results to the Board of Directors and Board of Corporate Auditors, from which it received feedback.

(2) Review and Update of the Code of Ethics

Sumitomo Chemical and its Group companies regularly consider revisions to the Code of Ethics (at least once a year). After conducting a review, if there is need for an update, it is made promptly. Sumitomo Chemical conducted a review of the Code of Ethics at relevant departments. In light of these results, we updated the Code of Ethics in April 2022.

Sumitomo Chemical Code of Ethics (*Compliance Manual*)

https://www.sumitomo-chem.co.jp/english/sustainability/governance/compliance/rules_society/

(3) Compliance Promotion Activities

(i) Compliance Risk Management Activities (Compliance Promotion Month, etc.)

Sumitomo Chemical and some of its Group companies have designated October as Compliance Promotion Month. During this month, all employees in each workplace, including manufacturing, research, sales, and various intermediate departments, participate in discussions to examine and identify all conceivable compliance risks, major or minor, that might arise in each workplace. They then go on to select those risks that need to be specifically addressed and formulate concrete measures to prevent the risks from occurring in the future. For those preventive measures that are already in place, they review once again whether or not the measures are sufficiently effective when implemented. Continuous implementation of these measures not only reduces specific compliance risks in the workplace but also helps in raising employees' compliance consciousness.

Regarding the Compliance Promotion Month initiatives of fiscal 2021, it is essential to discuss "possible improper cases in the processes of one's own department". All major compliance risks were examined and identified in each department and concrete preventive measures were then formulated and implemented. Reports on these activities were submitted by each department, and an evaluation team that includes outside legal counsel objectively evaluated them. With the goal of further raising the level of compliance, we shared information on departments with positive evaluations and the details of their initiatives within the Company.

■ List of Essential Topics of Discussion during the Compliance Promotion Month

Fiscal Year	Essential Topics of Discussion
2016	Fraud risks
2017	Collusion and harassment
2018	Information leaks and management of company assets
2019	Compliance with business laws
2020	Environmental changes caused by the COVID-19 pandemic
2021	Possible improper cases in the processes of one's own department

(ii) Compliance Training

In line with its firm belief that strict compliance can only be achieved with each employee having high awareness of compliance, Sumitomo Chemical places importance on carrying out compliance education on a continual basis. This includes training programs geared to management executives at Sumitomo Chemical and Group companies as well as class-based training when someone is promoted. In addition, we conduct face-to-face lecture-style training courses and e-learning training, depending on each company's specific needs and situation. In fiscal 2021, we conducted compliance e-learning training for all Sumitomo Chemical employees (around 7,200 people), and all employees received the training. In addition, Group companies in Japan conduct compliance training.

Compliance

■ FY2021 Compliance Training Status

	Status of Implementation
Sumitomo Chemical	Compliance e-learning training (including on preventing leaks of trade secrets, preventing insider trading, and the Speak-Up Reporting System) Participation rate: 100% (conducted at all worksites and departments) (already conducted training on promoting employees and individual training related to corruption prevention, quality assurance, safety, logistics, information security, etc.)
Sumitomo Chemical Group*	Percentage of employees who received training related to compliance (attendance rate) Attendance rate at Group companies in Japan: 94.1% Attendance rate at Group companies overseas: 72.5%

* Does not include Sumitomo Chemical

(iii) Employee Compliance Awareness Survey

In order to measure the effect of the initiatives listed above, including compliance activities and training, Sumitomo Chemical and Group companies in Japan and overseas regularly conduct employee compliance awareness surveys. In fiscal 2019, Sumitomo Chemical conducted its sixth employee compliance awareness survey. In the fiscal 2019–fiscal 2021 period, 37 Group companies in Japan and overseas conducted similar surveys. Analyses are conducted comparing Sumitomo Chemical with Group companies and Group companies with each other, a process that leads to the discovery of issues and the setting forth of measures aimed at the further improvement of compliance at each Group company.

(4) Initiatives to Respect Human Rights and Prevent Corruption

An area of our recent focus is to strengthen those initiatives which lead to respect human rights (refer to page 165), and initiatives will more effectively serve to maintain sound business practices in companies' entire supply chains, through implementing measures to prevent corruption, such as bribes and collusion with business partners (including bribery and collusion with operators; refer to page 93).

(5) Initiatives to Comply with Competition Laws

To fully ensure compliance with competition laws, Sumitomo Chemical has established the Committee on Antitrust Compliance and Corruption Prevention (chaired by the company's President) to establish and manage competition law compliance systems for the entire Sumitomo Chemical Group under the guidance and supervision of the Board of Directors and Board of Corporate Auditors. In addition, we issued the *Competition Law Compliance Manual* and have introduced it at Group companies in Japan and overseas in addition to actively providing training using it.

Moreover, as a general rule, we prohibit executives and employees of business sectors from interacting with rival operators. We introduced an operator consultation system to permit such interactions only in the event that it is necessary for operations and, in such exceptional cases, that approval has been given in advance. In addition, product sales prices must always be independently set based on our own standards. To ensure this, when revising product sales prices and price formulae, the Company convenes the price deliberation committee, which determines the revisions after thorough deliberation.

■ Status of Implementation for Training Related to Competition Laws (Including Awareness Raising Activities)

	Status of Implementation
Sumitomo Chemical	Already implemented at eligible worksites and business sectors (cumulative total of 26 times since FY2018)
Sumitomo Chemical Group*1	Group companies in Japan*2: 66.7% Group companies overseas*2: 80.0%

*1 Does not include Sumitomo Chemical
*2 Percentage of companies that conducted training

Compliance

(6) Compliance Audit

As it is also important to conduct audits of whether the operations of the compliance structure and various compliance activities are being appropriately carried out in each department of Sumitomo Chemical, and in each Group company, the Internal Control & Audit Department and the Responsible Care Department conduct compliance audits. (For more details on the Responsible Care Department's audits, refer to page 101.) Regarding matters discovered during the compliance audits, appropriate corrective measures are taken.

Sumitomo Chemical Group Compliance Action Policy (FY2022)

Under the Corporate Business Plan, ensuring strict compliance for the entire Sumitomo Chemical Group while maintaining safe and secure operations is a basic policy, Sumitomo Chemical vigilantly monitors and addresses issues in the following areas.

- Appropriately response to Speak-Up and compliance violation investigations
- Compliance training and educational activities
- Compliance audits

We will steadily implement compliance promotion activities across the Group, further enhance Group compliance, fully respond to the amendment of the Whistleblower Protection Act, strengthen cooperation between Group companies and relevant departments, and focus our efforts on responding to new SDG and ESG trends. In this way, Sumitomo Chemical will strengthen and improve the Group's compliance system operations and continue to further enhance its effectiveness.

■ FY2022 Sumitomo Chemical Compliance Action Goals

Items	FY2022 Goals	FY2021 Results	FY2020 Results	FY2019 Results
Internal Reporting (Speak-Up reporting)	Regarding the number of employees per report, maintain 100% compared to the previous fiscal year (226 people per report)	226 people per report	316 people per report	280 people per report
Compliance Training	Conduct compliance training at 95% of Group companies	Sumitomo Chemical*1: 100% Group companies in Japan*2: 91.1% Group companies overseas*2: 82.0%	Sumitomo Chemical*1: 100% Group companies in Japan*2: 95.7% Group companies overseas*2: 93.9%	Sumitomo Chemical*1: 100% Group companies in Japan*2: 97.4% Group companies overseas*2: 83.6%

*1 Attendance rate (percentage of employees)
*2 Percentage of companies that conducted training

Looking Ahead

Being a global enterprise, Sumitomo Chemical's Compliance Committee, RLCOs, and Group companies are deeply committed to fulfilling their corporate citizenship responsibilities as a global corporation by carrying out the Sumitomo Chemical Group Compliance Basic Policy.

Anti-corruption

Basic Policy

As corporations expand activities across national boundaries, promoting fair competition becomes increasingly important in the supply of goods and services in the international marketplace. As is evident from the ever tightening laws and regulations in the world designed to prevent corruption, such as the FCPA in the U.S. and the Bribery Act of 2010 in the U.K., there is a growing awareness globally that corrupt conduct, such as bribery, should be eliminated by any means necessary. Under the circumstances, Sumitomo Chemical has positioned the prevention of corruption in all its forms, including bribery of public officials, excessive business entertainment and gift-giving, collusion, embezzlement, and breaches of trust as one of the most important issues in ensuring thorough compliance. We are striving to ensure a sustainable and sound corporate climate by enhancing our internal organization to appropriately respond to corruption risks to prevent the occurrence of corruption.

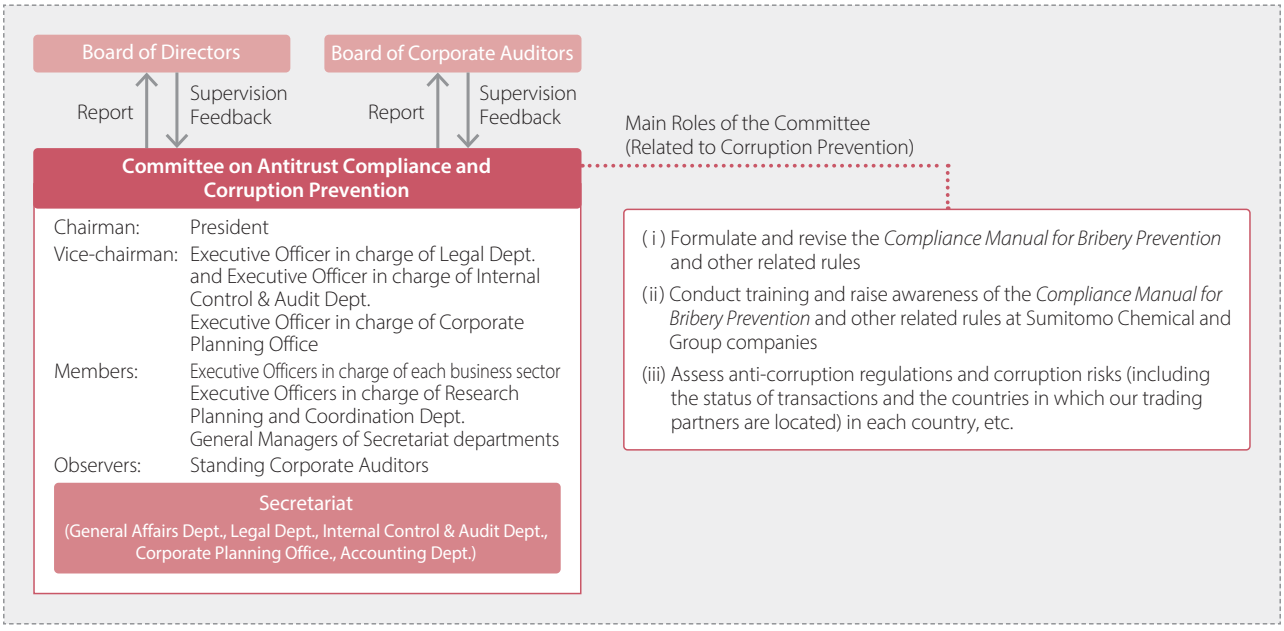
Committee on Antitrust Compliance and Corruption Prevention

Sumitomo Chemical has established the Committee on Antitrust Compliance and Corruption Prevention (chaired by the company's President) to establish and manage anti-corruption systems for the entire Sumitomo Chemical Group under the guidance and supervision of the Board of Directors and Board of Corporate Auditors.

In the President's own messages, the committee states its policy and commitment to prohibit all forms of corruption, including bribery of public officials by management executives or employees, excessive entertainment and gift-giving, collusion, embezzlement, and breaches of trust. In addition, we have formulated a Compliance Manual for Bribery Prevention that contains detailed anti-corruption rules. The manual has been disseminated to all Group companies in Japan and overseas, and has been posted on the company intranet, and periodic training sessions are conducted to ensure thorough compliance among the employees of the company and its Group companies.

Further, we conduct assessments of anti-corruption regulations and corruption risks in each country, such as the status of transactions and the countries in which our trading partners are located. Based on the results of these assessments, we decide on policies to strengthen measures to prevent corruption, and apply them to the company and all Group companies.

■ Committee on Antitrust Compliance and Corruption Prevention



Anti-corruption

Compliance Manual for Bribery Prevention (Outline)

Chapter 1: General Principles

1. Prohibition of Giving Bribes
   It is prohibited to give bribes to a government official or to any other person or entity, including private trading partners.
2. Prohibition of Accepting Bribes
   It is prohibited to accept a bribe. In addition, it is prohibited to request a bribe or gift, entertainment, or other benefit from a third party.
3. Prohibition of Giving or Accepting Excessive Gifts or Entertainment
   It is prohibited to give or accept excessive gifts or entertainment. All forms of gifts or entertainment that may harm the Company's reputation are always impermissible.

Chapter 2: Prohibition of Bribing Government Officials

The provision of any form of improper benefit to a government official may be considered a bribe. Furthermore, various rules are put in place, including those related to the circumstances where any type of gift and entertainment to a governmental official is prohibited, procedures for sponsoring site visits by governmental officials, procedures for giving donations and political contributions, and compliance with local regulations.

Chapter 3: Rules For and During Engagement of Business Partners

It is required to conduct due diligence when the Company engages new business partners or renews engagement of existing business partners, such as agents, distributors and consultants who could interact with government officials in the course of services for the Company. It is also required to fix the appropriate compensation and to take necessary internal procedures when concluding contracts with business partners.

Chapter 4: Proper Keeping of Books and Records

It is required to prepare and maintain appropriate and accurate books and records related to entertainment, gifts, payments to business partners, and other transactions.

Chapter 5: Monitoring Legal Compliance

It is required for each department to ensure thorough compliance, for the Internal Control & Audit Department to conduct audits, and the Committee on Antitrust Compliance and Corruption Prevention to take initiatives. In addition, the Company's executives and employees are obligated to file a report when a violation (or a suspicion of one) is detected.

Chapter 6: Violations

The Company's executives and employees who commit violations of this manual are subject to disciplinary action.

Anti-corruption

Initiatives in the Supply Chain

In order to prevent corruption in the Group's supply chain, we are making our agents, consultants, distributors, and other business partners aware of our anti-corruption policy by holding regular training sessions when initially engaging or renewing a contract, or at business meetings and other occasions. We also ask our partners to pledge to comply with the policy. In addition, as part of our due diligence procedures, we ask business partners to submit written responses detailing their company's profile and any past corruption problems, and assess the risk of corruption based on these responses. Moreover, when we engage a business partner for business with a high risk of corruption, such as in a public tender transaction or in a developing country, a more detailed risk assessment is carried out, including on-site interviews with the business partner conducted by an outside expert. If it is judged that there is a risk of corruption as a result of the assessment, we conduct awareness-raising activities concerning the prevention of corruption for such business partners, asking them to implement corrective measures such as strengthening the internal rules and organization to prevent corruption, and offering our support for such efforts. (The company does not engage business partners if the implementation of remedial measures is refused or if there is a strong concern about corruption detected through the assessment process.)

Other Measures

In addition to the above-mentioned measures, we are striving to prevent corruption through the application of internal rules on business entertainment and gift-giving, and the strict application of approval procedures for business decisions and payment.

We have also established and operate an internal reporting system (the Speak-Up Reporting System, which allows anonymous reporting) that can be used by anyone involved in our business, including business and trading partners, in order to quickly identify corruption or the threat of corruption, to prevent compliance violations from occurring, and to rectify them as soon as possible. We also inform management executives or employees of Group companies, and business and trading partners, about the use of this system.

Management executives and employees whose corrupt conduct has been confirmed are subject to disciplinary action in light of internal rules. Business and trading partners are requested to rectify such actions, and other measures are taken, such as the suspension of transactions.

Looking Ahead

The Sumitomo Chemical Group will continue actively promoting various initiatives across its entire supply chain going forward to prevent bribery and all other forms of corruption.

Tax Transparency

Basic Policy

The Sumitomo Chemical Group considers paying taxes one of the most fundamental and important social responsibilities of a company. We comply with the tax laws applicable to each country and properly pay taxes in accord with that spirit.

The Group understands that using exceedingly beneficial tax systems in regions or countries with no or low taxes (so called tax havens) hinders the collection of proper taxes in each country. By not using tax havens with the purpose of avoiding taxes and by paying appropriate taxes in the countries and regions where it does business, the Group aims to help spur economic development in those countries and regions.

The Sumitomo Chemical Group has established the Sumitomo Chemical Group Tax Policy to ensure tax transparency and enhance tax compliance.

Sumitomo Chemical Group Tax Policy

Sumitomo Chemical Group conducts business in a wide range of countries and regions based on the Sumitomo Spirit which has been passed down through generations for over 400 years, the basic teaching of which is to contribute to society through its business activities. The Sumitomo Chemical Group recognizes that tax payment is one of the most fundamental and important social responsibilities that companies should fulfil. In accordance with the below fundamental policies, the group complies with the respective tax laws in each country in which it operates, ensuring correct tax payment in the spirit of its business philosophy. Through this, the group strives to build relationships of trust with various stakeholders and contribute to the economic development of each country and region.

Legal Compliance

The Sumitomo Chemical Group will comply with all tax laws and regulations applicable to all countries and regions in which business activities are conducted, and will file and pay taxes accordingly.

Tax Planning

The Sumitomo Chemical Group considers and implements tax planning measures in order to improve the cash flow of the business, but such tax planning is done fully in compliance with the laws of each country, ensuring proper consideration of the business circumstances, and does not carry out tax planning for the purposes of tax avoidance.

Tax Havens

The Sumitomo Chemical Group understands that the use of countries or regions with low tax rates or no tax payable (known as “tax havens”) will be to the detriment of appropriate tax payments in each country. Therefore, the Group does not use tax havens for the purposes of avoiding taxes but instead wishes to contribute to each country’s economic development by appropriate payment of taxes.

Transfer Pricing

The Sumitomo Chemical Group sets transaction prices so that cross-border related-party transactions are carried out based on the arm’s length principle, in accordance with the OECD Transfer Pricing Guidelines, in order to ensure the appropriate tax payment in each country and region. The group also ensures regular review of the appropriateness of its profit allocation based on the functions, risks and assets of each group company and the respective contribution each group company makes to the group business. The group also prepares transfer pricing documentation in accordance with the relevant tax laws and regulations.

Uncertain Tax Positions

The Sumitomo Chemical Group conducts business globally, and in addition to conducting various types of transactions, there may be cases where taxation related matters and tax positions may be unclear due to increasingly complex tax systems. For such cases, the group will carefully consider each situation and strive to make decisions that will minimize tax risk, such as by consulting with independent experts and utilizing advance consultation procedures with tax authorities.

Relations with the Tax Authorities

In addition to the group ensuring appropriate filing and payment of tax in each country and region, the Sumitomo Chemical Group will also endeavor to build and maintain good relationships with tax authorities by responding in good faith to their requests.

Tax Transparency

Management System

The Sumitomo Chemical Group Tax Policy was established to diligently implement initiatives aimed at ensuring tax compliance and transparency, and it is shared with Group companies in Japan and overseas. We comply with the tax laws of each country and region where we do business and strictly and appropriately pay taxes.

Furthermore, important tax issues and strategies are reported to regular Management Meetings and Board of Directors meetings.

Risk Management

https://www.sumitomo-chem.co.jp/english/sustainability/governance/risk/

Goals and Results

■ Corporate Income Taxes Paid (Sumitomo Chemical Group)

(Billions of yen)

	FY2017	FY2018	FY2019	FY2020	FY2021
Amount of tax paid	28.7	50.2	48.7	54.4	68.3

Responsible Care

Basic Stance

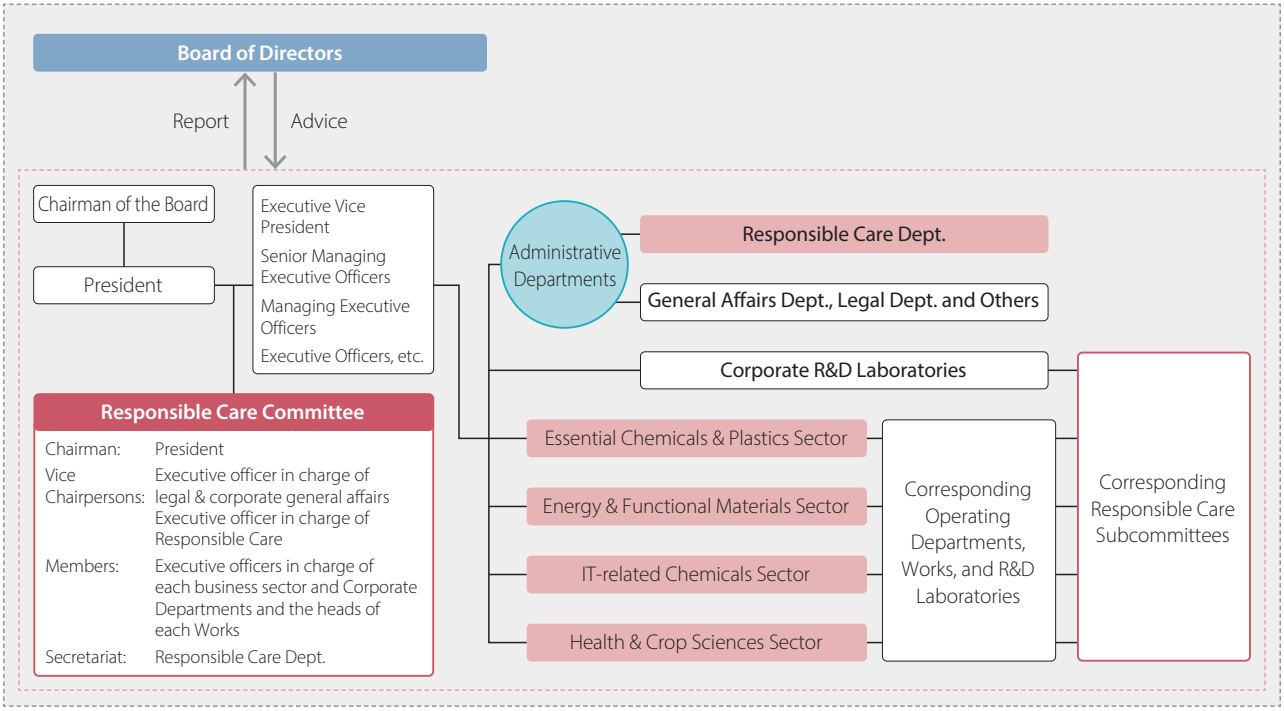
Responsible Care (RC) activities refer to the voluntary initiatives undertaken by business operators in the chemical industry, with the goals of ensuring safety, health and the environment throughout the life cycle of chemical products, from development through to the manufacture, sales, use, and disposal after final consumption, maintaining and improving the quality of those products. These activities also strive to gain the further trust of society through continuous dialogue.

The Sumitomo Chemical Group has positioned Responsible Care activities as one of its most important management pillars. Based on the core principle of "Making safety our first priority," the Group has set goals for each of the following fields: occupational safety and health; industrial safety and disaster prevention; environmental protection; addressing climate change; product stewardship, product safety, and quality assurance; Responsible Care audits; and logistics. The Group is working to achieve the goals it has set.

Management System

As the body for deliberating and approving Sumitomo Chemical's RC activities, the Responsible Care Committee is chaired by the president and comprises executive officers responsible for and in charge of the administrative departments and the four business sectors of the Company, and the General Manager of each Works. The Committee puts in place annual policies on activities, medium-term plans, and specific measures as they relate to Responsible Care. The committee also analyzes and assesses the results of Responsible Care activities. The Committee then reports the content of its meetings to the Board of Directors as appropriate and receives necessary guidance in an effort to enhance its supervisory functions and the execution of its duties.

■ Organization of Responsible Care



Responsible Care

Policies and Goals

Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality)

Sumitomo Chemical has set forth safety, the environment, and product quality as top priorities for all phases of its business activities in its Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality). This policy has been communicated to all employees of Sumitomo Chemical and its Group companies to ensure that each and every employee is fully aware of it.

To ensure that we, in accordance with our Basic Principles for Promoting Sustainability and the Sumitomo Chemical Charter for Business Conduct, contribute to the sustainable development of society and achieve our own sustained growth by gaining society's trust, we declare our commitment to addressing, together with Group companies, the following matters as the highest priority tasks with respect to safety, health, the environment, and product quality:

1. We will maintain safe and stable operations by realizing zero-accident, zero-injury performance and "Making safety our first priority."
2. We will ensure the safety of our employees, neighboring communities, and other stakeholders through risk-based continual improvement of our performance in occupational safety and health, industrial safety and disaster prevention, and other related areas, as well as the security of our facilities, processes and technologies.
3. We will work to ensure environmental and human health and safety throughout the life cycle of our products by promoting continual improvement in chemicals safety and product stewardship across the supply chain, and enhancing our chemicals management system.
4. We will work to protect the environment through continual improvement of our environmental performance throughout the life cycle of our products, from development to disposal, and address climate change and related.
5. We will provide safe and reliable products and services that our customers can use safely and with confidence.
6. We will not only comply with all domestic and international laws, regulations, and ordinances but also work to use best practices through our voluntary initiatives.
7. We will disclose information and engage in dialogue with society to ensure we meet society's expectations, respond to its interests, and remain accountable to the same.
8. We will contribute to sustainable development of society by improving our performance, expanding business opportunities, as well as developing and providing innovative technologies and other solutions to address social challenges.

Established: April 1, 2020

Note: Combined "Corporate Policy on Safety, the Environment and Product Quality (Established: April 1994)" and "Policy on Responsible Care Activities (Established: January 1995)"

Responsible Care

Promoting Responsible Care Activities

Sumitomo Chemical shares policies and targets regarding RC across the entire Group. We are working to maintain stable operations with zero accidents and zero injuries as the foundation of our business, which is one of the basic policies outlined in the Responsible Care medium-term plan. We are also striving to ensure safety, health and the environment throughout the life cycle of products as well as to improve the quality of chemical products the Company manufactures.

	Medium-term Plan (FY2022 – FY2024)
Occupational Safety and Health	• Assess the level of safety culture and safety infrastructure at each workplace and persistently strive for improvement • Promote safety and health activities based on international standards and the utilization of DX to adapt to a new society where people can choose from a variety of flexible working styles and changes in the structure of society cause by the pandemic
Industrial Safety and Disaster Prevention	• Strive to strengthen safety infrastructure by introducing advanced technologies to improve management technologies, training highly skilled process safety personnel, and carefully managing facilities and construction projects • Strengthen our response to intensifying natural disasters and new threats, such as terrorism
Environmental Protection	• Steadfastly comply with environmental laws and regulations and promote reductions of our environmental impact • Actively work to disclose environment-related nonfinancial information to help steadily improve our standing in society while addressing new issues, such as those related to water risks and biodiversity
Addressing Climate Change	• Work to formulate and implement specific measures aimed at achieving our science based targets (SBTs) and then updating to the SBT 1.5°C target • Sumika Sustainable Solutions deepen cooperation between departments as we strive to achieve new 2024 targets
Product Stewardship, Product Safety, and Quality Assurance	• Work to address risks through use of the Company's systems, including the comprehensive chemical management system (SuCCESS), while steadily implementing a bottom-up approach, such as maintaining personnel and introducing qualification systems • Strive to enhance operational quality by fostering a quality-focused culture and promoting DX as well as promote activities to prevent quality-related problems through risk management and reduce losses arising from flaws
RC Audits	• Conduct audits to ensure thorough operation of the Responsible Care management system, steady improvements to its operation, and compliance with related laws and regulations
Logistics	• Work to reduce the number of logistics safety- and quality-related incidents

Note: More details on the key activities and initiative results for each field can be found in the following sections.

At present, we have stationed Responsible Care specialists at regional headquarters in Europe and the Americas as well as China and the wider Asia Pacific region. This has enabled us to develop RC activities rooted in each area. We established the Sumitomo Chemical Group's Safety Ground Rules in 2016 as a measure to further secure safety at all Group locations. We have since been working to promote awareness of the rules among all Group employees while further raising the level of Groupwide safety activities and eliminating work-related accidents. Moreover, we strive to ensure the safety of community residents and protect their environment while promoting mutual understanding by providing residents with information concerning our initiatives and engaging in dialogue.

Also, we continually work to develop human resources that are capable of implementing Responsible Care, for example, through training and practice at each production site and regional headquarters as well as regular meetings attended by the Responsible Care managers of Group companies in Japan and overseas. In addition, we publish a newsletter that covers various topics and information on accidents and disasters that have occurred within the Group in the hope of preventing similar occurrences. We also promote various kinds of RC activities through RC awards for excellent RC activities of Group companies.

Looking Ahead

As global-scale issues pile up, including the response to climate change, the creation of a circular economy, and considerations for biodiversity, we, as people engaged in the chemical industry, duly regard the society's trust in us as the starting point to continue our business. To ensure continued growth together with customers, regional neighbors, and employees, we will continue to promote Responsible Care activities throughout the Group.

Responsible Care

Eco-First Commitments

In November 2008, Sumitomo Chemical was the first diversified chemical company recognized as an Eco-First Company in the Eco-First Program promoted by the Ministry of the Environment.

In November 2021, we updated our Eco-First Commitments for the third time, reflecting new initiatives related to environmental conservation. We made a declaration regarding this to the Minister of the Environment and are promoting initiatives based on these commitments.

ECO FIRST

Eco-First Commitments Updated Version

November 29, 2021

To Tsuyoshi Yamaguchi
Minister of the Environment

President of Sumitomo Chemical Co., Ltd.
Keiichi Iwata

As a leader in the chemical industry, Sumitomo Chemical Co., Ltd. not only observes strict compliance with all relevant laws and regulations, but also works to ensure safety, environmental protection, health and product quality throughout the life cycle of chemical products. The Company also strives to gain the further trust of society through continuous dialogue, and undertakes voluntary initiatives (Responsible Care activities) to contribute to the sustainable development of society.

01 We will promote efforts toward the realization of a carbon-neutral society.

1. As a company that agrees with the Task Force on Climate-related Financial Disclosures and has acquired SBT certification, we will actively promote various measures such as low-carbon fuel conversion and energy saving to prevent global warming, and work to reduce GHG emissions.
2. In addition to 1, we will proceed with the formulation of strategies for achieving carbon neutrality by 2050 through the development of innovative technologies and products.
3. In order to contribute widely to society through the power of chemistry (business), we will actively invest in research and development of products and technologies that contribute to climate change, and carry out in-house certification. In addition, we will quantitatively grasp the GHG reduction effect of these certified products and technologies and publish information.

02 We will work to realize the circulation of plastic resources and solve the problems of plastic waste through our business, such as the provision of technologies, products, and services that can demonstrate the strengths of chemistry.

1. In collaboration with other companies and academic institutions, we will promote technological development and construction of recycling systems, and work toward further social implementation of plastic material recycling and chemical recycling.
2. We will conduct in-house education and enlightenment so that the recycling of plastic resources can be regarded as one's own responsibility and lead to changes in one's own behavior, promote the separate collection of waste in the offices and facilities, and carry out social contribution activities such as cleaning the area around the offices and facilities, including rivers and coasts (aiming to be carried out at least once a year at each office or facility). In addition, through participation in various alliances, we will collaborate with others involved in the plastic value chain and actively work to respond to a wider range of social issues.

03 We will continue to manage chemical substances and risk communication appropriately and positively.

1. We will carry out a re-inspection of the risk assessment for all chemical substances handled by our company that have completed the risk assessment based on the latest knowledge after setting priorities, and will disclose the results to the public.
2. We will collaborate with chemical companies around the world on studies of the impact of chemical substances on human health and the environment (Long-range Research Initiative), in order to continuously improve the safety of chemical substances.
3. All the offices and facilities at Sumitomo Chemical will strive to communicate effectively with and promote information disclosure to local residents and other stakeholders in creative and voluntary ways that suit the needs of the local community, and continue activities to deepen mutual understanding.

The Company will monitor the progress made in
the above initiatives, make the results publicly available,
and report them to the Ministry of the Environment on a regular basis.

SUMITOMO CHEMICAL

Responsible Care

Results ○ Very favorable/ ● Generally favorable

Realizing a Carbon-Neutral Society

○

Formulated a grand design to achieve carbon neutrality by 2050

- In December 2021, we formulated a grand design to achieve carbon neutrality by 2050, setting out a direction for our initiatives and goals for our activities. The Sumitomo Chemical Group*1 commits itself to reducing its greenhouse gas emissions by 50% by 2030 compared to the level of emissions in FY2013, and to achieving carbon neutrality by 2050. Having raised our 2030 emissions reduction target to 50%, we once again received certification from the Science Based Targets (SBTs)*2 initiative for this new target as meeting the standard of "well below 2°C."*3 We will accelerate reductions in greenhouse gas emissions by approaching the issue from the perspectives of both obligations to bring its own greenhouse gas emissions close to zero and contributions through its products and technologies to reducing global greenhouse gas emissions.

Promoting such initiatives as fuel conversion to low-carbon fuels and energy savings

- In the Ehime region, we plan to switch from coal and heavy oil to LNG and, in the Chiba region, from petroleum cokes to LNG. We expect this to yield reductions in annual CO_2 emissions of around 650 and 240 thousand tons, respectively. In addition, we set about a study to take advantage of clean ammonia.

Promoting Sumika Sustainable Solutions

- We are promoting Sumika Sustainable Solutions, which are initiatives to internally designate products and technologies that contribute to global warming countermeasures and environmental impact reduction. A total of 66 products and technologies have been designated, with combined sales of 621.2 billion yen in fiscal 2021 (consolidated). We will continue to stably assess the GHG reduction effects.

Realizing the Recycling of Plastic Resources and Solving Plastic Waste Problems

○

Practical application of plastic material and chemical recycling

- We set a KPI for the amount of recycled plastic resources used in manufacturing processes, targeting 200k tons annually by 2030.
- Regarding material recycling, from June 2021, we began considering a business alliance with Rever Holdings Corporation, which is a diversified recycling company that handles metals, automobiles, home appliances, and more, with the aim of recycling and effectively utilizing good-quality waste plastic resources. Regarding chemical recycling, in February 2022, four themes related to chemical recycling technology that manufactures chemicals using waste plastic and alcohols were selected for Green Innovation Fund Projects,*4 enabling an even greater acceleration of technological development.

Conducting social contribution activities and participating in various alliances

- Since fiscal 2020, we have continued to provide education and raise awareness to enable people to take ownership of various issues related to recycling plastic resources, such as offering original educational videos regarding the basics of recycling plastic resources for all employees and managers in the Sumitomo Chemical Group. In addition, we work daily on separating and collecting waste at each business location. In fiscal 2021, after taking thorough measures to prevent the spread of COVID-19, we carried out a total of 40 social contribution activities, such as cleaning up areas surrounding our business sites and cleaning up neighboring waterways and coasts, at nine of 15 business locations in Japan.
- We participate in the Alliance to End Plastic Waste (AEPW), which is an international alliance working to solve the plastic waste problem, and the Japan Clean Ocean Material Alliance (CLOMA), which is a domestic alliance working to solve the marine plastic waste problem. Our participation in these alliances entails cooperating with others associated with the plastic value chain to address broad social issues that would be difficult to solve alone, such as upgrading the waste collection infrastructure in countries around the world with high emissions of plastic waste.

Management of Chemical Substances and the Promotion of Risk Communication

○

Reviewing Safety Information on Chemicals and Conducting Risk Assessments

- Performed risk assessments for 810 products to date and publicly released safety summaries for 58 substances. (https://www.jcia-bigdr.jp/jcia-bigdr/en/material/icca_material_list)

LRI*5 Initiatives

- Promoted research by actively participating in the LRI program implemented by the Japan Chemical Industry Association as a member of the steering committee and research strategy planning group. Furthermore, we participate in the microplastics task force, which has close ties to the LRI program, and provide feedback.

Enhancing Information Disclosure and Risk Communication

- Published the *Annual Report*, *Sustainability Data Book*, the *Report on the Environment and Safety (at all worksites)*, local PR newsletters, etc., made information publicly available on the official website, made school visits, accepted student interns, and engaged in dialogue with local residents.

*1 Sumitomo Chemical and its consolidated subsidiaries in Japan and overseas
*2 Stringent GHG emission reduction targets set by companies based on scientific principles to achieve the Paris Agreement
*3 Shared long-term global targets laid out in the Paris Agreement. Defined as holding the global temperature rise from pre-industrial levels to below 2°C and mentioning continuing efforts aimed at holding the rise down to 1.5°C
*4 To realize carbon neutrality by 2050, the Ministry of the Economy, Industry and Trade created a 2 trillion yen fund in NEDO. These projects continuously support companies committed to ambitious targets pertaining to everything from research and development to pilot testing and practical application over a 10-year period.
*5 Long-range Research Initiative: Long-term support for research into the effects of chemical substances on human health and the environment

Responsible Care

<Responsible Care (RC) Audits>
Basic Stance

The RC audit is a management system for verifying that RC activities, such as ensuring safety and environmental protection, and maintaining and improving the safety and quality of chemical products, are properly implemented. It also promotes process enhancement if areas for improvement are found in those activities.

To promote the Sumitomo Chemical Group's RC global management, RC audit activities are used to study and evaluate duties executed in the course of business and the status of management and supervision from the perspectives of compliance, effectiveness, efficiency, and credibility of financial reporting. By offering advice and proposals for improvement and rationalization, we can prevent compliance violations, corruption, and errors as well as protect corporate assets and enhance operational efficiency. RC audits fulfill the functions of improving management at the Company and Group companies and aid in building, maintaining, and improving the internal control system (responsible audit rules) through the following four-step approach.

Step 1: Sharing Sumitomo's Business Philosophy
Step 2: Promoting an understanding of and sharing in the Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality); RC management systems; and Group Responsible Care Standards
Step 3: Establishing and developing RC management systems at each Group company
Step 4: Carrying out modifications to the direction and adjusting levels of RC activities by undergoing RC audits

Through face-to-face communication through each of the aforementioned steps, we have successfully provided assistance so that the RC management system is set in place by taking the scale, type of business, and attributes of each Group company into consideration. Relationships built on trust with Group companies that have been nurtured through these RC audits are utilized in various initiatives including individual support and the lively exchange of opinions aimed at resolving a wide range of issues at the Group companies.

Responsible Care

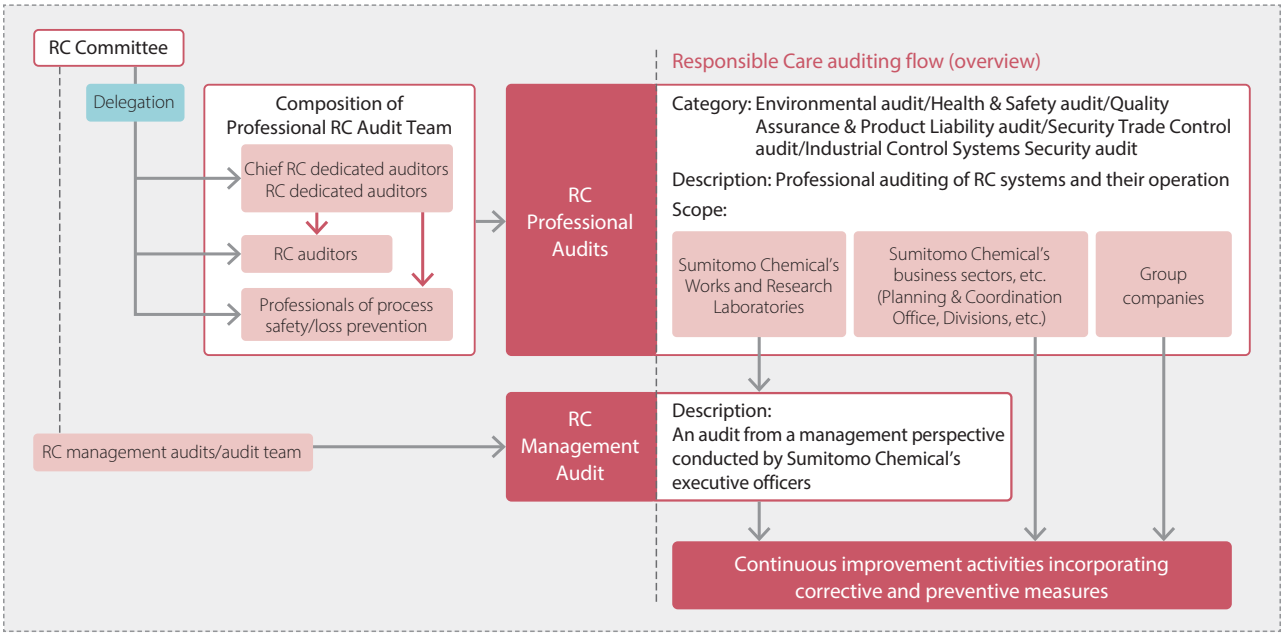
Management System

Sumitomo Chemical has an independent RC audit team. The auditors specially designated by the executive officers in charge of RC have a wealth of knowledge, experience, and technical expertise. Based on the RC audit policies and plans approved by the Responsible Care (RC) Committee every year, these auditors directly visit and conduct audits of internal organizations as well as Group companies in Japan and overseas (consolidated business companies that have been determined to need auditing, Group business companies for which auditing has been requested, and listed Group companies (including their subsidiaries)). However, audits were conducted remotely in fiscal 2020 and 2021 because in-person visits were not possible due to the pandemic. In addition, RC audits of internal Works and research labs are conducted from a management perspective by an audit team comprising Sumitomo Chemical's executive officers in charge of RC. In line with the important direction provided during an RC audit, the Works and labs report their methods for advancing corrective and preventive measures, the status of their Responsible Care activities, and important issues to the audit team for discussion.

The Scope and Cycle

In principle, RC audits are conducted every one or two years at Sumitomo Chemical's Works and business sectors, and every three years at Group companies.

■ Responsible Care Auditing Framework



Responsible Care

Goals and Results

Responsible Care Audit Results (Sumitomo Chemical Group)

Facilities		FY2019	FY2020	FY2021
Professional audits*1	Works and research laboratories	10	9	10
	Independent laboratories	3	0	2
	Logistics centers	0	0	0
	Business sectors	5	4	4
	Group companies in Japan	18	11	16*3
	Group companies overseas	9	2	6*3
Management audits*2	Works, research laboratories, and independent laboratories	7	5	8
Total		52	31	46

Note: Refer to Responsible Care Auditing Framework on page 102 for more details.

*1 Audits of systems and operations by specialists in each field

*2 Audits from a management perspective by Sumitomo Chemical officers

*3 Companies subject to audit comprised 31 domestic companies (54 facilities) and 33 overseas companies (38 facilities). Domestic audits were conducted according to plan, including the provision of remote support. Because in-person visits are crucial for overseas companies, except for 6 remote audits, the audits were postponed.

FY2021 Professional Audits for Facilities and Business Sectors (Sumitomo Chemical)

Area	Facilities (Works, Research Laboratories)	Business Sectors (Head Office Business Sectors)	Total
Good	10	0	10
Needs improvement	49	9	58
Needs to be examined	73	9	82
Total	132	18	150

Looking Ahead

We continually work to prevent compliance violations, corruption, and errors as well as to improve the management of both Sumitomo Chemical and Group companies while building, maintaining, and improving their internal control systems as needed.

Cybersecurity

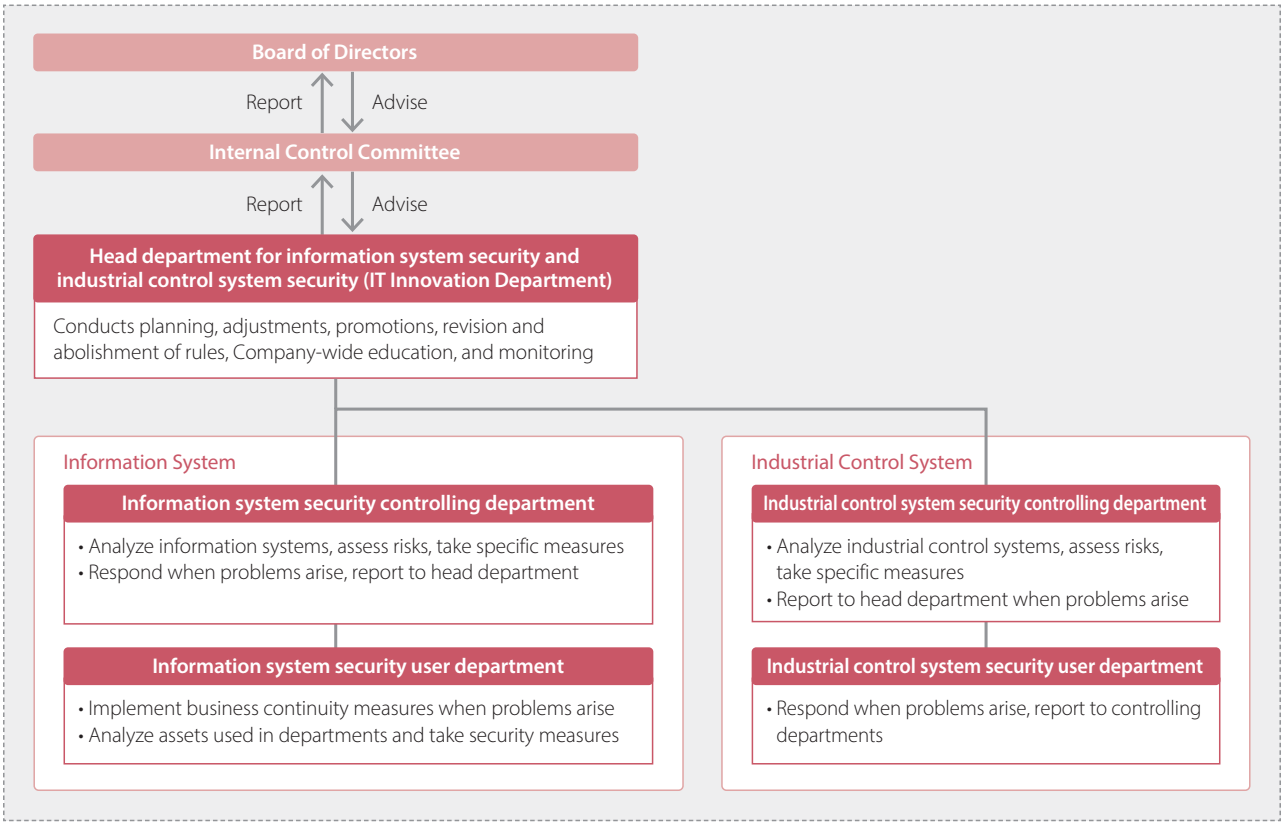
Basic Policy

Through the utilization of IT, the digital innovation, entailing the pursuit of improved productivity, competitive advantages, and the creation of new business models, is accelerating. This has been accompanied by a rise in impacts, such as an increase in remote working opportunities and more sophisticated cyberattacks. The purpose of Cybersecurity is to properly manage information, information systems and information communication networks, prevent leaks and losses, and minimize impact of security incidents. We have therefore taken an approach that is multifaceted from the organizational, systems, personnel, technological, and physical points of view.

Management System

Sumitomo Chemical has constructed the following framework for information system security and industrial control system security, and is implementing the PDCA cycle.

■ Security Framework for Information System and Industrial Control System



Cybersecurity

Goals and Results

We have established a security policy in accordance with the concept of ISMS (Information Security Management System), an international standard for the organization's information security framework.

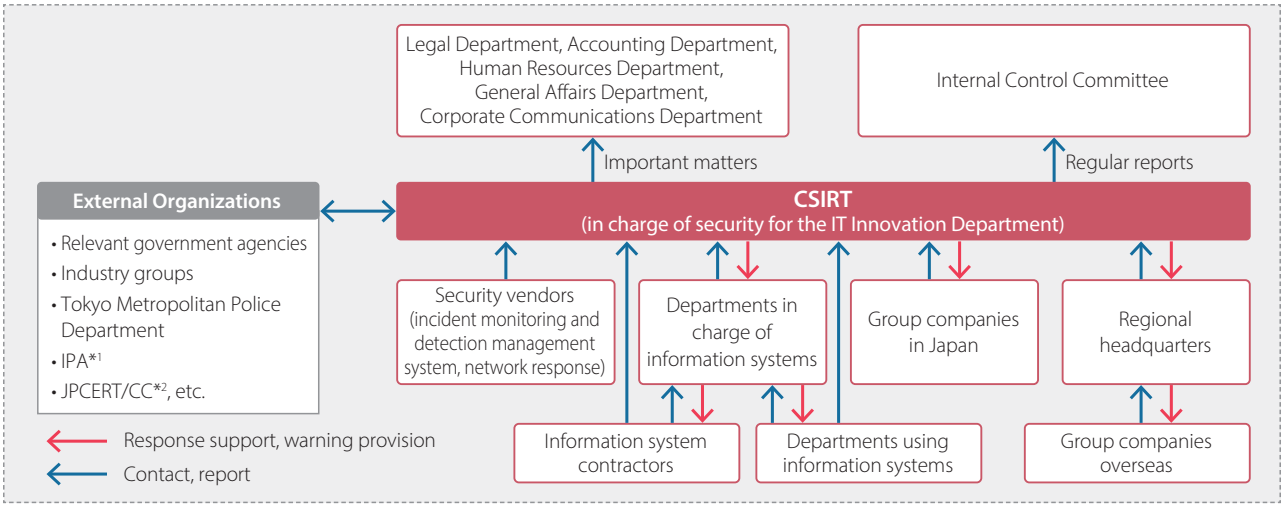
Our basic policy comprises multifaceted security measures (multilayered incident prevention and disaster mitigation), such as those outlined below.

Type of measure	Content of measure
Organizational measures	• Constructed an information system and industrial control system security framework • Constructed an information-sharing framework with inside and outside organizations to ensure preparedness against security incidents
Systematic measures	• Establish general standards and standards related to security, including for Group companies • Periodically conduct security self inspections and conduct IT security internal audits that encompass Group companies
Personnel measures	• Conduct periodic security education using e-learning system, etc. • Conduct alerts and security incident response exercises
Technological measures	Implement a range of measures, including access restriction, malware measures, and vulnerability measures, for individual servers and computers as well as networks
Physical measures	Use cloud servers complete with entry/exit controls and other security features

Examples of Initiatives

We have established a CSIRT (Computer Security Incident Response Team) in information system security head department (IT Innovation Department). The team analyzes security information from external organizations, provides warnings to the Group, gathers information on security incidents that occur within the Group, and comprehensively manages the Group's response.

■ Security Incident Response Framework



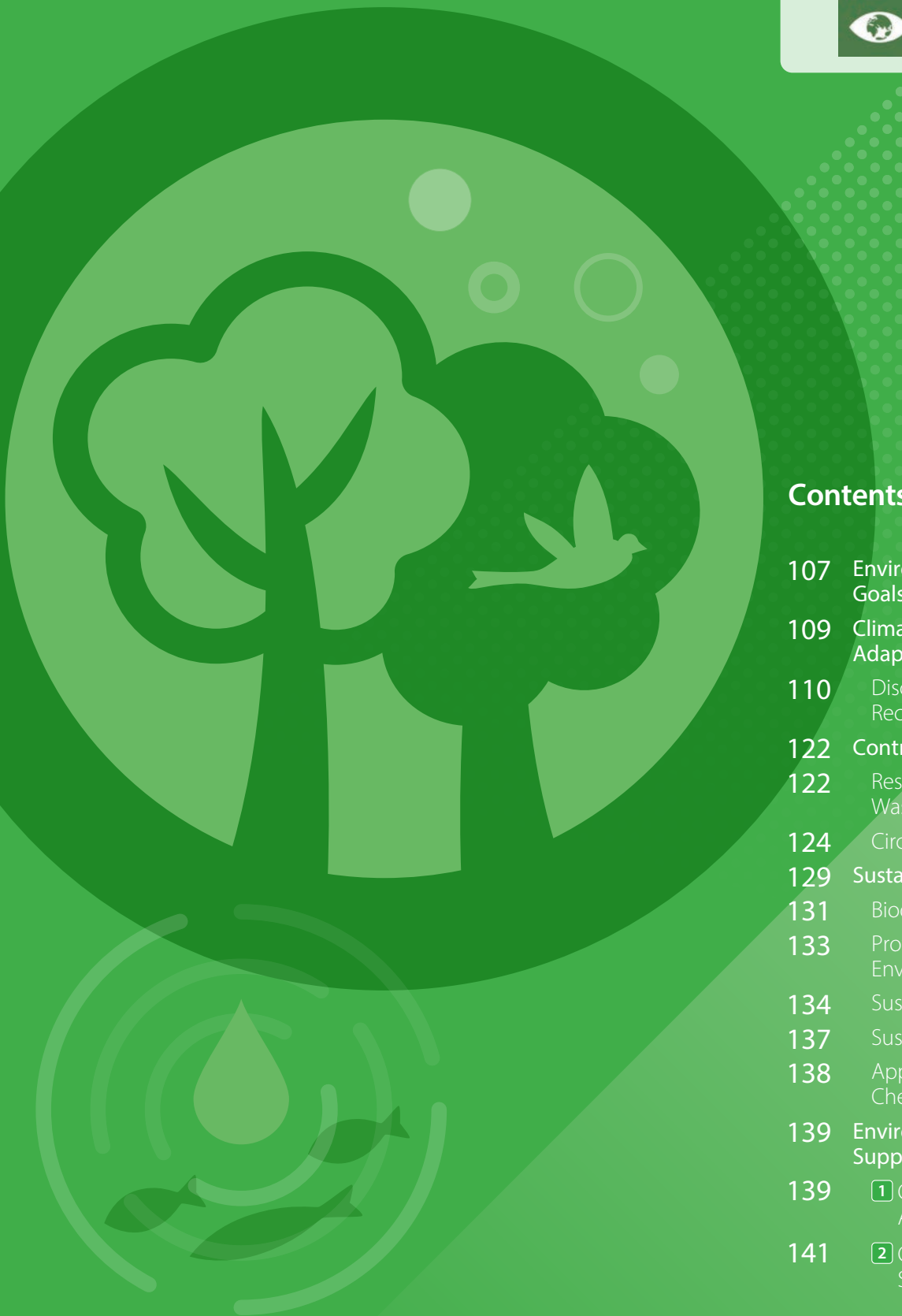
*1 IPA: Information-Technology Promotion Agency, Japan
*2 JPCERT/CC: Japan Computer Emergency Response Team Coordination Center

Looking Ahead

As an critical infrastructure operator, Sumitomo Chemical considers cyber security to be an essential management issue and will continue responding to growing threats. By taking appropriate system security measures, we will continue to create more value with the aim of supporting the global expansion of business, solving issues in the international community, and enhancing quality of life.

Environment

Contributing to the SDGs through Environmental Activities



Contents

Environmental Activity Goals and Results

Goal achieved or steadily progressing: ○ Goal not achieved: △

Items		Boundary	Goals	Fiscal 2021 Results	Evaluation	Page
Climate Change Mitigation and Adaptation	Greenhouse gas emissions Scope 1+2*1	Sumitomo Chemical Group Consolidated	Reduce 36% compared to fiscal 2020 levels by 2030	Increased 3% relative to fiscal 2020	△	Pages 109–121
	Scope 3*2	Sumitomo Chemical Group Consolidated	Reduce 14% relative to fiscal 2020 for categories 1 and 3*3 by fiscal 2030	Maintain emissions at the fiscal 2020	△	
	Unit energy consumption*4	Sumitomo Chemical Group Consolidated	Improve more than 3% over the three years of the Corporate Business Plan (fiscal 2019–2021)	Improved 13% relative to fiscal 2018	○	
	Unit energy consumption in the logistics division	Sumitomo Chemical and Group companies in Japan*5	Improve over 1% per year on average over five years	Improved by an annual average of 0.5% over five years	△	

Note: Further details on goals based on the Act on the Rational Use of Energy and results are provided in the supplementary data (pages 139–140).

*1 Scope 1: Direct greenhouse gas emissions from operators themselves (fuel burning and industrial processes)
Scope 2: Indirect emissions from purchases of power and heat from outside the factory

*2 Scope 3: Emissions from the manufacturing and transportation of purchased raw materials

*3 Category 1: Purchased goods and services
Category 3: Fuel and energy activities not included in Scopes 1 or 2

*4 Energy consumption divided by consolidated net sales

*5 Within the scope of specified shippers according to the definition stipulated under the Act on the Rational Use of Energy

Goal achieved or steadily progressing: ○ Goal not achieved: △

Items		Boundary	Fiscal 2021 Goals	Fiscal 2021 Results	Evaluation	Fiscal 2022 Goals	Page
Contribute to Recycling Resources	Promoting the effective use of plastic resources	Sumitomo Chemical and Group companies in Japan	Improve total amount of valuable resources and effective usage*6 by at least 1% on average per year relative to fiscal 2020	Increased 6.3% relative to fiscal 2020	○	Improve total amount of valuable resources and effective usage by at least 1% on average par year relative to fiscal 2020	Pages 122–128
		Group companies overseas	Improve total amount of valuable resources and effective usage*6 by at least 1% on average per year relative to fiscal 2020	Increased 0.2% relative to fiscal 2020	△	Improve total amount of valuable resources and effective usage by at least 1% on average par year relative to fiscal 2020	
	Reduce the amount of industrial waste sent to landfills	Sumitomo Chemical	Maintain 80% reduction compared to fiscal 2000 levels	Reduced by 92.3% relative to fiscal 2000	○	Maintain 80% reduction compared to fiscal 2000 levels	
		Sumitomo Chemical and Group companies in Japan	Maintain waste volume at below fiscal 2020 levels to fiscal 2021	Increased by 23.7% relative to fiscal 2020	△	Maintain waste volume at below fiscal 2020 levels to fiscal 2022	
	Promoting the effective use of industrial waste	Sumitomo Chemical and Group companies in Japan	Improve effective usage rate*7 by at least 1% on average per year relative to fiscal 2020	Improved 4.5% relative to fiscal 2020	○	Improve effective usage rate by at least 1% on average per year relative to fiscal 2020	
		Group companies overseas	Improve effective usage rate*7 by at least 1% on average per year relative to fiscal 2020	Worsened by 1.7% relative to fiscal 2020	△	Improve effective usage rate by at least 1% on average per year relative to fiscal 2020	
	Properly treated PCB waste	Sumitomo Chemical and Group companies in Japan	• (High concentrations of PCB*8) Work toward appropriate storage and recovery of waste containing high concentrations of PCBs and complete PCB waste treatment at an early stage • (Minute amounts of PCB*9) Work toward appropriate storage and recovery of waste containing minute amounts of PCBs and complete PCB waste treatment by March 2025	• (High concentrations of PCB) Sumitomo Chemical: Completed treatment Group companies in Japan: Completed treatment • (Minute amounts of PCB) Implemented the treatment of waste containing minute amounts of PCBs at certain factories; continuing to promote the storage and recovery of untreated waste	○	• (High concentrations of PCB) Work toward appropriate storage and recovery of waste containing high concentrations of PCBs and complete PCB waste treatment at an early stage • (Minute amounts of PCB) Work toward appropriate storage and recovery of waste containing minute amounts of PCBs and complete PCB waste treatment by March 2025	

Note: Further details are provided in the supplementary data (pages 141–161).

*6 Effective usage amount = (amount of internally recycled and reused + amount of internally recovered heat) + (amount of externally recycled and reused + amount of externally recovered heat)

*7 Effective usage rate = {(amount of internally recycled and reused + amount of internally recovered heat) + (amount of externally recycled and reused + amount of externally recovered heat)}/amount of waste generated × 100

*8 High concentrations of PCB: Polychlorinated biphenyl (PCB) intentionally used as insulation oil in such items as electric appliances

*9 Minute amounts of PCB: PCB unintentionally mixed in as insulation oil in such items as electric appliances (over 0.5 mg/kg)

Environmental Activity Goals and Results

Goal achieved or steadily progressing: ○ Goal not achieved: △

Items		Boundary	Fiscal 2021 Goals	Fiscal 2021 Results	Evaluation	Fiscal 2022 Goals	Page
Sustainable Use of Natural Capital	Severe environmental accidents	Sumitomo Chemical and Group companies in Japan	0	0	○	0	Pages 129–138
	Laws and regulations, etc.	Sumitomo Chemical	Properly respond to more stringent laws and regulations and proactively address trends in new environmental regulations	Studied and responded to amendments to the PRTR Act, the Act on Rational Use and Proper Management of Fluorocarbons, and the Air Pollution Control Act (asbestos). Thoroughly discussed legislation to ease or tighten regulations with the National government.	○	Properly respond to more stringent laws and regulations and proactively address trends in new environmental regulations	
	Environmental protection management methods, etc.	Sumitomo Chemical	Provide individual support to Group companies for responding to environmental regulations	Provided individual support related to the Waste Management and Public Cleansing Law, the Soil Contamination Countermeasures Act, the Act on Rational Use and Proper Management of Fluorocarbons and the PRTR Act.	○	Provide individual support to Group companies for responding to environmental regulations	
	Conservation of Biodiversity	Sumitomo Chemical	Ensure compliance with "Sumitomo Chemical's Commitment to the Conservation of Biodiversity"	Ensured compliance with "Sumitomo Chemical's Commitment to the Conservation of Biodiversity" and promoted detailed initiatives based on ISO 14001	○	Ensure compliance with "Sumitomo Chemical's Commitment to the Conservation of Biodiversity" and strengthening effort	
	Prevention of air and water pollution	Sumitomo Chemical	Meet voluntary management criteria*1	There were no exceeded instance of the legal standard limit and voluntary management criteria.	○	Meet voluntary management criteria	
	Prevention of ozone layer depletion	Sumitomo Chemical and Group companies in Japan	• Eliminate the use of refrigeration units that use CFCs as coolants by fiscal 2025 • Eliminate the use of refrigeration units that use HCFCs as coolants by fiscal 2045	Systematically replaced refrigeration units that use CFCs and HCFCs as coolants	○	• Eliminate the use of refrigeration units that use CFCs as coolants by fiscal 2025 • Eliminate the use of refrigeration units that use HCFCs as coolants by fiscal 2045	
	Response to PRTR	Sumitomo Chemical	Maintain 60% lower total emissions relative to fiscal 2008	Reduced emissions by 90.6% relative to fiscal 2008	○	Maintain 60% lower total emissions relative to fiscal 2008	
		Sumitomo Chemical and Group companies in Japan	Maintain total emissions of air and water pollutants at below fiscal 2020 levels to fiscal 2021	Increased by 0.4% relative to fiscal 2020	△	Maintain total emissions of air and water pollutants at below fiscal 2020 levels to fiscal 2022	
	Reduction of VOC emissions	Sumitomo Chemical	Maintain VOC emissions reductions at 30% relative to fiscal 2000	Reduced emissions by 55.7% relative to fiscal 2000	○	Maintain VOC emissions reductions at 30% relative to fiscal 2000	
	Effective use of water resources	Sumitomo Chemical	Promote effective and efficient use of water resources	Water usage increased by 3.1% relative to fiscal 2020	△	Promote effective and efficient use of water resources	
		Group companies overseas	Improve unit water consumption by at least 1% on average per year	Improved 4.5% relative to fiscal 2020	○	Improve unit water consumption by at least 1% on average per year	
	Prevention of soil and groundwater contamination	Sumitomo Chemical and Group companies in Japan	Keep hazardous materials strictly within Company premises*2	Continued to keep hazardous materials strictly within Company premises	○	Keep hazardous materials strictly within Company premises	

Note: Further details are provided in the supplementary data (pages 141–161).

*1 Voluntary management targets that are stricter than the mandated levels and criteria of relevant laws and regulations, including agreements reached with local authorities.

*2 Keep hazardous materials strictly within Company premises: Controlled on the premises.

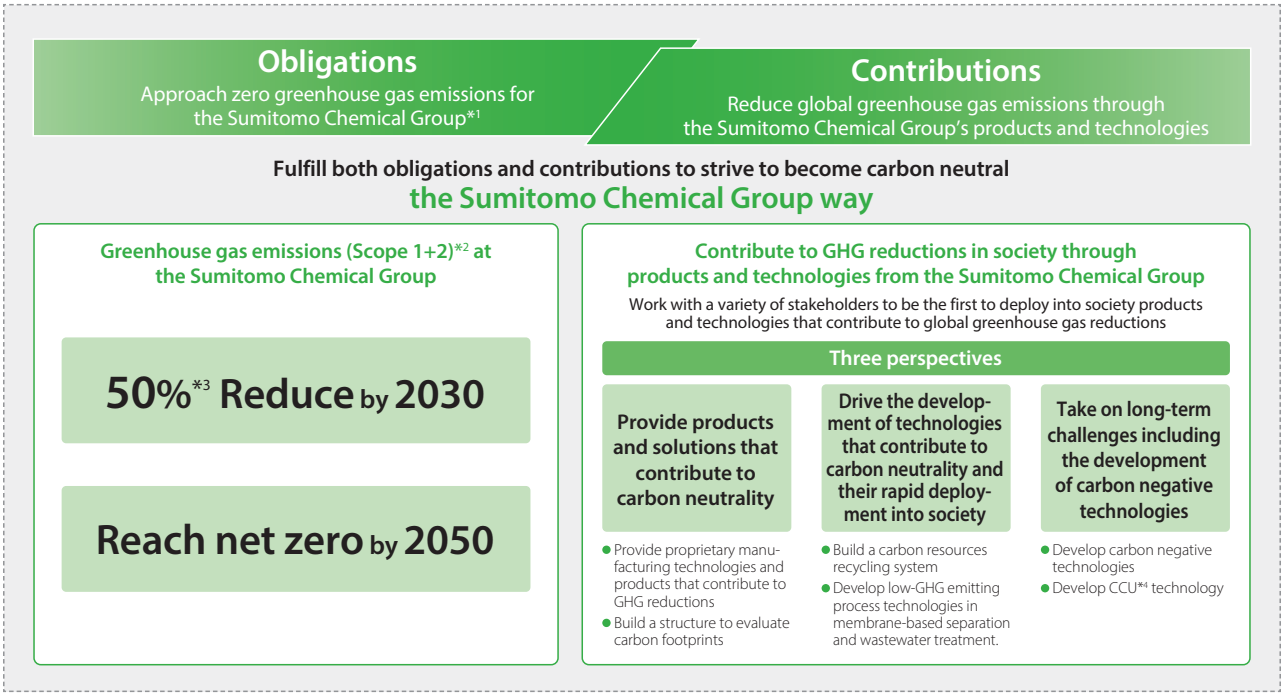
Climate Change Mitigation and Adaptation

Basic Stance

Sumitomo Chemical considers climate change a pressing challenge facing society. To address this problem, we are actively working to respond to risks and to seize opportunities by utilizing the technology we have cultivated as a diversified chemical company. In addition, regarding disclosure related to climate change, we will continue gaining the trust of society by actively raising awareness of our initiatives using the framework of the TCFD recommendations.

Furthermore, with movements aimed at achieving carbon neutrality picking up steam in recent years, the chemical industry is being strongly called upon to create innovation and contribute to the achievement of carbon neutrality for society at large through its businesses. In December 2021, Sumitomo Chemical formulated and publicized its "grand design to achieve carbon neutrality," setting out a direction for its initiatives aimed at realizing carbon neutrality by 2050. In line with this, we will push ahead with initiatives that address both our obligation to bring our own greenhouse gas (GHG) emissions close to zero and the contribution we can make to promoting carbon neutrality for society as a whole through our technologies and products. To fulfill our obligation, we have committed ourselves to reducing our GHG emissions by 50% by 2030 (compared to the level of emissions in FY2013), and to achieving net zero GHG emissions by 2050. We will also contribute to the reduction of GHG emissions throughout society by engaging in external collaboration and otherwise facilitating innovation to develop products and technologies that serve this end, along with pursuing their social implementation, with the aim of helping communities around the world realize carbon neutrality.

■ Grand Design Toward Achieving Carbon Neutrality



*1 Referring to Sumitomo Chemical Co., Ltd. and its consolidated subsidiaries in and outside Japan

*2 Scope 1: Greenhouse gases directly emitted by plants, such as in the use of fuels and in manufacturing products
Scope 2: Greenhouse gases emitted indirectly, such as through the purchase of electric power or steam from outside the company's plants

*3 Compared to FY2013

*4 CCU: Carbon dioxide Capture and Utilization

Climate Change Mitigation and Adaptation

<Disclosure in Line with TCFD Recommendations>

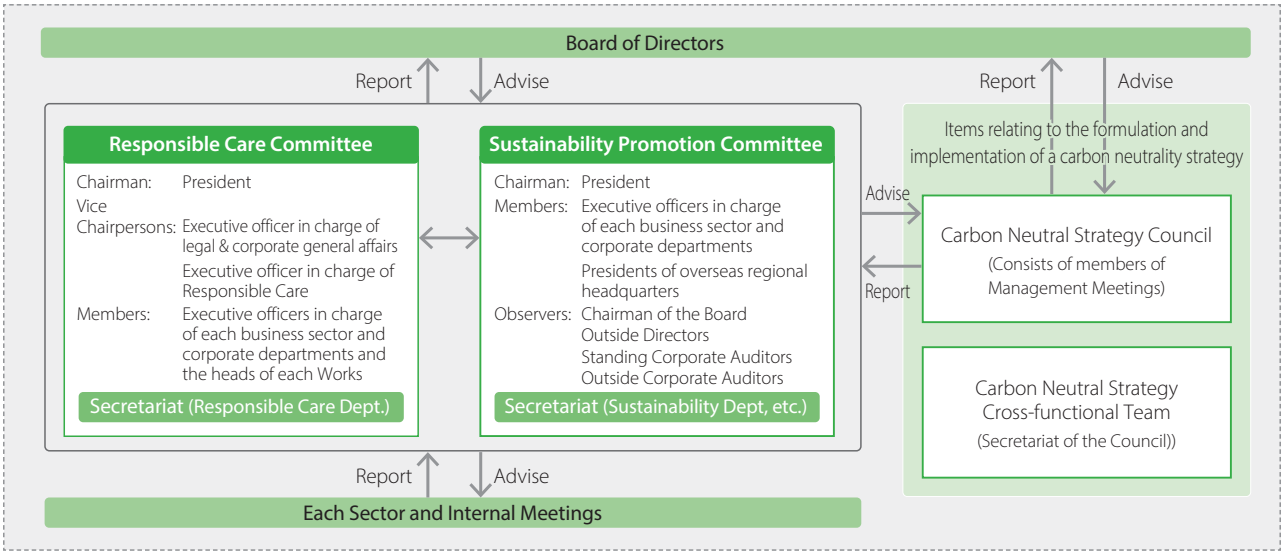
Sumitomo Chemical expressed its support for the TCFD recommendations when they were published in June 2017. In line with the four recommended disclosure items, "Governance," "Risk Management," "Strategy," and "Metrics and Targets," the Group's efforts to address climate change issues are introduced on pages 110-121.

Governance

Sumitomo Chemical has established meetings and committees to deliberate important matters related to the management of the Group from a broad and diverse perspective in order to enhance its business execution and supervisory functions. Through these meetings and committees, the Company reports to the Board of Directors at least once a quarter on issues related to the promotion of sustainability, including climate change.

Management Meetings	Deliberation of important matters such as management strategies and capital investments, including proposals and reports to be submitted to the Board of Directors
Sustainability Promotion Committee	Deliberations on important matters related to sustainability promotion
Responsible Care Committee	Formulation of annual policies, mid-term plans, and specific measures to address climate change, as well as analysis and evaluation of performance
Carbon Neutral Strategy Council	Promotion of specific measures set forth in the grand design for achieving carbon neutrality in 2050

■ Structures for Responding to Climate Change



A wide range of specific issues related to energy and greenhouse gases (GHGs) are taken up for detailed discussion at Company-wide Science Based Targets (SBTs) GM Meetings, SBT Promotion Working Groups, Company-wide Energy Manager Meetings, Department Liaison Meetings on Global Warming, Group Company Information Exchange Meetings, and other gatherings. Through the establishment of these various meetings, we have created a system capable of steadily and swiftly sharing important information in addition to managing energy and GHGs for Works, research laboratories, business sectors, and Group companies.

Meeting	Coordinator	Members	Content
Company-wide SBTs GM Meeting	Executive officer responsible for Responsible Care	General managers in charge of SBTs at individual worksites	Discussing various measures aimed at achieving SBTs
SBT Promotion Working Group	Process & Production Technology & Safety Planning Department general manager	Corporate Planning Office, Research Planning and Coordination Department, Process & Production Technology & Safety Planning Department, Responsible Care Department, and Environmental Burden Reduction Technology Development Group	Proposing various multi-faceted measures to achieve SBTs
Company-wide Energy Manager Meeting	Responsible Care general manager	Section managers in charge of Energy and GHGs at their worksites	Sharing and spreading information on initiatives at each worksite
Department Liaison Meeting on Global Warming	Responsible Care general manager	Section managers in charge of climate change action at the departmental and corporate levels	Sharing Company-wide policies and ESG issues
Group Company Information Exchange Meeting	Executive officer responsible for Responsible Care	Managers in charge of climate change action for Group companies	Sharing Group policies and issues and promoting best practices

Climate Change Mitigation and Adaptation

Risk Management

To achieve sustainable growth, Sumitomo Chemical makes an effort to detect, at an early stage, various risks that may hinder the achievement of its business objectives, and takes proper measures. We focus on building and expanding a system relating to risk management so that we can promptly and properly address risks when they emerge.

Climate change issues are positioned as one of the Group's major medium- to long-term risks through, for example, an assessment from the perspective of the likelihood of their occurrence and impact, and are integrated into the Group's overall risk management process.

Specific Procedures

Each organization, including Group companies in Japan and overseas, conducts risk evaluations from the perspectives of probability of emergence (frequency) and financial impact in the event of emergence. The Internal Control Committee, which is chaired by the President, deliberates and identifies Company-wide material risks that need Group-wide initiatives, which may later be approved. The seriousness of each risk is determined by multiplying the probability of the individual risk by the financial or strategic impact on the Group's businesses.

Based on these processes, we have identified climate change-related risks and opportunities as detailed in the following table.

■ Risks and Opportunities

Risks

Transition risks
- Increases in tax burden due to the introduction and increase of carbon prices
- Increases in manufacturing costs associated with the increase in energy taxes
- Higher logistics costs due to higher energy prices

Physical risks
- Damage to production facilities due to intensified climate disasters caused by temperature rise
- Decline in sales of related businesses due to changes in crop cultivation in various regions worldwide amid abnormal weather

Opportunities
- Increasing demand for products that contribute to reducing green house gas (GHG) emissions
- Increasing demand for products that adapt to the impacts of climate change
- Growing market for low-carbon processes
- Development of new businesses in the area of climate change measures through research and development and digital innovation

Responding to Risk
- Initiatives Aimed at Achieving Carbon Neutrality
  - Adopts the internal carbon price system to enhance energy saving and promote investment in reducing of GHG emissions
  - Switching fuel for power generation (including the establishment of the Niihama LNG Station and the use of renewable energy)
  - Introduction of innovative low-carbon technologies
  - Initiatives for raising awareness and building momentum in the Group
  - Calling on major suppliers to set GHG emission reduction targets
- Strengthening measures against wind and flood damage at production sites

Initiatives for Seizing Opportunities
- Sales expansion for SSS*-designated products
  - Products that contribute to reducing GHG emissions
  - Products, components, and materials used for the creation of new energy sources
  - Products that contribute to adapting to the impacts of climate change
- Expansion of revenue from licensing low-carbon process technologies
- Acquisition of investment capital through information disclosure

* Sumika Sustainable Solutions

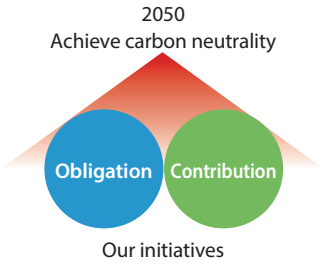
P.80 Risk Management

Climate Change Mitigation and Adaptation

Strategy

In December 2021, Sumitomo Chemical formulated a grand design for achieving carbon neutrality by 2050. We will promote efforts to mitigate climate change from the perspectives of both "Obligation" (to bring the Group's GHG emissions close to zero) and "Contribution" (to reduce global GHG emissions through the Group's products and technologies).

In addition, as part of our efforts to adapt to climate change, we are striving to provide solutions adapted to global environmental changes in agriculture and infectious diseases, and to strengthen new product development.



Investments to Achieve Carbon Neutrality

Starting in FY 2019, in order to contribute to the realization of carbon neutrality for society as a whole, we calculate economic indicators reflecting internal carbon pricing (10,000 yen per ton) when GHG emissions are expected to increase or decrease for individual investment projects, and make investment decisions.

Investment Scale

From FY2013 to FY2021, we have implemented or made decisions to make approximately 80 billion yen of carbon neutral-related investments. We plan to consider investments of approximately 120 billion yen through FY2030, for a total of approximately 200 billion yen.

Scenario Analysis

Scenario analysis, with regard to climate change, is a method in which we consider multiple scenarios, predict the impact of climate change and changes in the business environment due to long-term policy trends, and study the potential impact of these changes on our business and management. Currently, Sumitomo Chemical analyzes both risks and opportunities with respect to both a scenario in which a variety of measures are taken to limit average global temperature increase to 1.5℃ above the pre-industrial revolution levels, and a scenario in which countermeasures are not taken and temperatures increase by 4℃, evaluating both the impacts on our businesses and future actions that need to be taken.

Climate Change Mitigation and Adaptation

Summary of the Scenario Analysis

● In blue: positive impact ● In red: negative impact

Scenario	Risks and Opportunities	Anticipated Situation (Example)	Impact Assessment	Action
Common for All Scenarios*1	Increasing Demands for Disclosure of Information	● Expansion of ESG investment ● Increased demands for disclosure of the results of life cycle assessment ● Legalization of disclosure of climate change-related information, and introduction of new environmental accounting standards	● Increased opportunity to get access to ESG investment capital by enhancing information disclosure ● Improved rating in stakeholder assessments with regard to the disclosure of the amount of GHG emissions reduction calculated by life cycle assessment ● Increased cost of compliance	● Formulate and release our Grand Design for achieving carbon neutrality ● Calculate and disclose the carbon footprint of the Company's products ● Develop a carbon footprint calculation tool (CFP TOMO™) and provide it to other companies for free ● Respond to trends in regulations and movements by related institutions
1.5°C Scenario (Reduced GHG Emissions)	Increased Demand for Products and Technologies Contributing to the Mitigation of Climate Change	● Increasing investment and growing market for products and technologies contributing to the reduction of GHG emissions and for products and technologies related to recycling [Examples] • Growing markets for EVs and fuel cell vehicles (2020 to 2050) • Growing markets for components and materials for high-efficiency communication, due to change in consumer behavior (including expansion of the sharing economy and more efficient logistics with the use of IT) • Shift to low-carbon energy sources • Expansion of CCUS*2 (2030 onward) • Expansion of the circular economy, with the aim of reducing CO_2 derived from fossil fuels (2020 to 2050) • Growing markets for energy-saving homes and building materials	● Increased demand for SSS*3-designated products ● Increasing need for technological development for future SSS-designated products [Examples] • Components and materials for EVs and fuel cell vehicles • Increased sophistication in IT devices, demand for electronic components necessary to reduce energy consumption, demand for related products and technologies necessary for distributed power systems and semiconductor control devices • Technology that contributes to reducing GHG emissions • Products and technologies for CO_2 recovery, on the back of the expansion of CCUS • Carbon negative technologies • Recycling-related products and technologies • Biologically derived products and technologies • Energy-saving construction materials, such as heat-storing materials	● Enhance development and production systems for products such as lightweight materials, battery materials, and materials for optical products and electronic components ● Develop a process for recycling lithium-ion batteries ● Enhance development and production systems for materials for next-generation power devices and high-efficiency communications ● Promote licensing of technologies that contribute to reducing GHG emissions (for example: the hydrogen chloride oxidation process and the propylene oxide-only process) ● Develop technologies relating to CO_2 recovery ● Develop products that contribute to negative carbon emissions (for example: agricultural materials utilizing fungi, resins produced from microbes) ● Develop plastic recycling technology and build a recycling chain in cooperation with waste management companies ● Develop technology for biologically derived products ● Develop technology for and expand sales of heat storage material products
	Increased Regulation on GHG Emissions	● Higher carbon prices (in developed countries, USD 135/ton for 2030, USD 245/ton for 2050)*4	● Increased operational costs due to higher energy taxes including carbon prices (Assuming a volume of GHG emissions in fiscal 2050 is about 7.65 million tons/year (Scope 1+2), the same level as in fiscal 2021, and a carbon price between 18,000–33,000 yen per ton of CO_2, our expense burden will increase by about 140–250 billion yen per year.)	● Consider carbon-neutral petrochemical complexes and ports ● Switch to highly efficient equipment by actively utilizing government subsidies ● Switch to renewable energy ● Switch fuel to LNG ● Rationalization research for manufacturing processes
		● Stronger requirements for GHG emissions reductions and making energy-saving performance mandatory ● Phased abolishment of subsidies for fossil fuels (in India and Southeast Asia, etc.) ● Accelerating transition to a circular society and increased regulation ● Increase in calls to promote use of renewable energy from customers	● Lower utilization of high-energy consumption production facilities ● Increase in utility expenses due to an increased proportion of renewable energy	● Develop technologies to capture, separate, and utilize GHG, and deploy them in society ● Promote the deployment of GHG emission removal equipment ● Collaborate with other companies to secure a stable supply of clean ammonia ● Promote the utilization of CO_2-free hydrogen and ammonia
	Increased Cost of Raw Materials	● More use of resources from circular systems and progress in the transition to lower environmental impact processes ● Increased costs due to more use of recycled materials ● Increase in calls for green procurement	● More difficult to procure raw materials ● Lower profitability of the existing businesses	● Diversify raw material sources ● Evaluate the use of recycled raw materials ● Shift to a local production, local consumption model (for products where raw material procurement costs make up a relatively high proportion of the price)
4°C Scenario (Business as Usual)	Increased Demand for Products and Technologies adaptable to Climate Change	● Growing market for crops resistant to environmental changes such as temperature rise and drought ● Spread of infectious diseases due to the impact of climate change	● Increased demand for SSS-designated products ● Increased need for technological development for future SSS-designated products [Examples] • Biorationals and soil amendments • Agrochemical products adaptable to the change in crop growth • Agents for prevention and treatment of infectious diseases	● Develop products such as biorationals ● Provide solutions that respond to global changes in the environment for agriculture and infectious diseases ● Enhance sales and marketing structures and new product development structures with an eye on changes in demand in targeted markets
	Intensified Climate Disasters due to Temperature Rise	● More impact on plant operations ● Rising sea level, damage from storm surges and floods, and heat waves ● Damage to farmland due to droughts and soil degradation	● Facilities located on seashores and river banks cease operations ● Decreased cost competitiveness of plants due to increased costs for measures to be prepared for disasters ● Decreased demand due to lower agricultural productivity	● Manage and respond to risks from a business continuity planning perspective ● Expand and diversify the regions in which we do business

*1 Common for all scenarios: Situations that can be expected in both 1.5°C scenario (reduced GHG emissions) and 4°C scenario (business as usual)
*2 Carbon dioxide capture, utilization and storage *3 Sumika Sustainable Solutions *4 Assumptions based on the IPCC Special Report on "Global Warming of 1.5°C"

Climate Change Mitigation and Adaptation

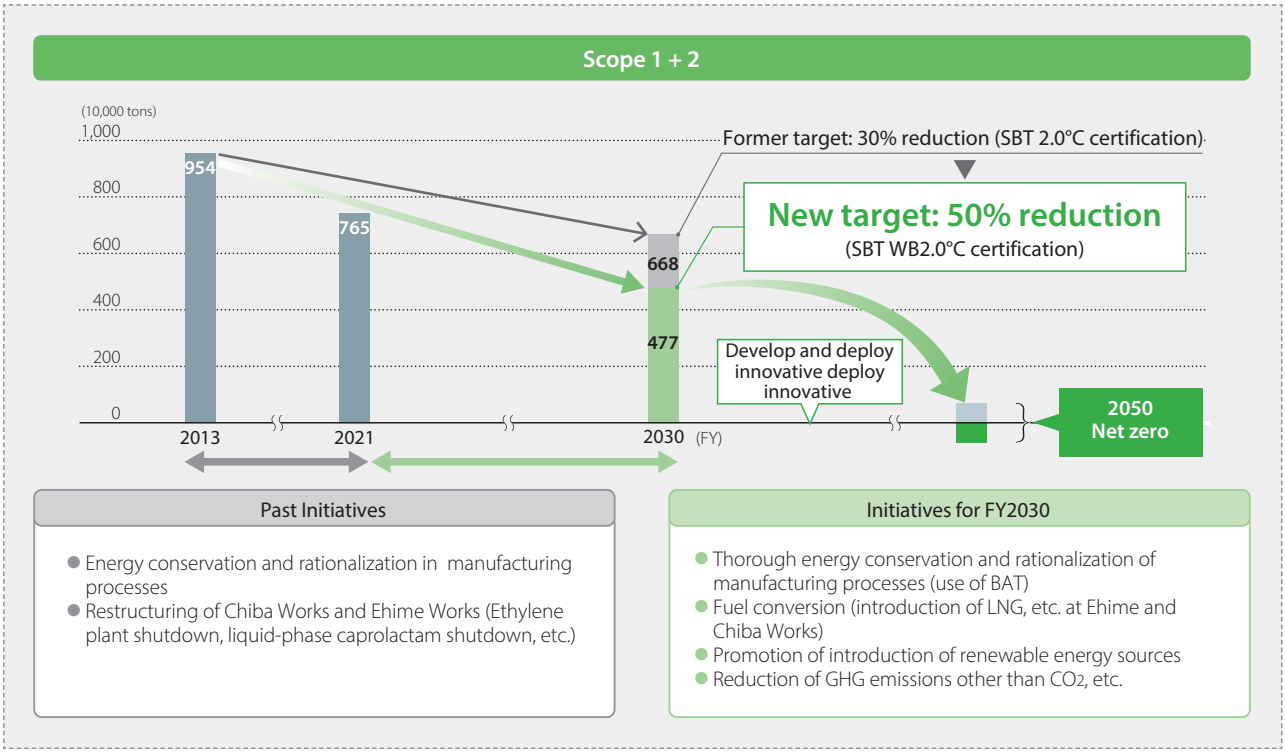
Metrics and Targets (Risk)

As a metric for climate-related risks, we are the first integrated chemical company in the world to utilize GHG emission reduction targets approved as Science Based Targets (SBT). In 2021, our group*1 revised its 2030 GHG emissions (Scope 1+2) reduction target significantly upward from 30% to 50%*2. With regard to this new reduction target, we obtained certification of SBT's Well Below 2°C standard in December of the same year. In addition, we established a target of reducing GHG emissions (Scope 3 (categories 1 and 3)) of major Group companies by 14% relative to fiscal 2020 by fiscal 2030. Until 2030, we aim to achieve this target through thorough energy conservation and fuel conversion in the manufacturing processes of existing plants and the use of the best available technologies (BAT) at this point in time.

On the other hand, to reach net-zero emissions by 2050, it will be difficult to respond only with existing technologies, and innovative technologies such as carbon-negative emissions and CCUS will be necessary. We will continue to study the development of these and their early implementation.

*1 Sumitomo Chemical + domestic and overseas consolidated subsidiaries
*2 Compared to FY2013

■ GHG Emission Reduction Targets Approved under the Science Based Targets initiative (Scope 1+2)



Note: New target is reduce by 36% by 2030, with 2020 as the base year, and applied for a new SBT certification.

P.20 KPIs for material issues for social value creation: Amount of Group's GHG emissions (Scope 1+2)

Climate Change Mitigation and Adaptation

★: Assured by an independent assurance provider

FY2021 Energy Consumption and Greenhouse Gas Emissions

The Group's greenhouse gas emissions for fiscal 2017 onward are calculated in accordance with the GHG Protocol (refer to page 249 "Calculation Standards for Environmental and Social Data Indicators"). The boundary of calculation has been expanded to include principal consolidated Group companies, which account for up to 99.8% of consolidated net sales.

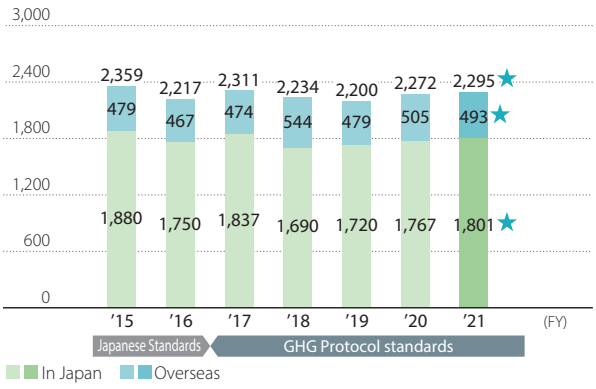
Greenhouse Gas Emissions ★

(Thousand tons of CO_2e)

	Sumitomo Chemical and Group Companies in Japan	Overseas Group Companies	Total
Scope 1	5,996	596	6,592
Scope 2	245	811	1,056
Total	6,241	1,407	7,648

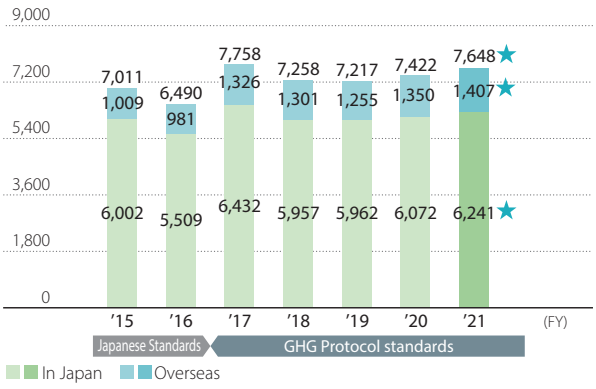
Note: Biomass-derived emissions were 50 thousand tons of CO_2e

Energy Consumption



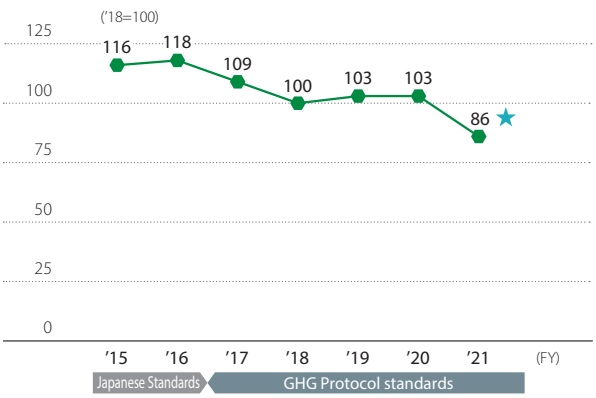
Notes: • Japanese Standards: Calculated based on the Act on the Rational Use of Energy.
• Having adopted the GHG Protocol standards for our GHG emission disclosures, we now include the following data previously excluded from calculations: amount of energy consumed in the production of power and steam sold to external parties by Sumitomo Chemical Group (the portion attributable to energy provider subsidiaries was included in years prior to fiscal 2016). The amount of energy consumed by Sumitomo Chemical's non-production sites and the Group's non-production sites is included from fiscal 2017 and fiscal 2018, respectively.

Greenhouse Gas Emissions



Notes: • Japanese Standards: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.
• Having adopted the GHG Protocol standards for our GHG emission disclosures, we now include the following data that was not included in previous calculations: CO_2 emissions from energy sold to external parties by the Group (the portion attributable to energy provider subsidiaries was included prior to fiscal 2016); CO_2 emissions from energy use attributable to Sumitomo Chemical's non-production sites; CO_2 emissions from non-energy sources not included in the scope of the Act on Promotion of Global Warming Countermeasures. CO_2 emissions from energy use attributable to Sumitomo Chemical's non-production sites and the Group's non-production sites is included from fiscal 2017 and fiscal 2018, respectively.

Unit Energy Consumption Index



Notes: • The figures are indexed to energy consumption (GJ) per sales
• The figures are indexed to fiscal 2018 at 100 because we aim to improve at least 3% over the three years of our Corporate Business Plan (FY2019–2021)

Climate Change Mitigation and Adaptation

★: Assured by an independent assurance provider

GHG Emission Reduction Targets Approved under the Science Based Targets initiative (Scope 3)

Scope 3

Reduce GHG emissions (Scope 3 (Categories 1 and 3)) of major Group companies **by 14% from FY2020** by FY2030

Supplier Engagement Initiatives

As part of our efforts to encourage our major suppliers to reduce GHG emissions, we hold an annual supplier information exchange meeting. In 2022, we held a hybrid face-to-face and web-based meeting with 22 major suppliers in Japan to explain our efforts to reduce Scope 3 emissions and to request their cooperation in reducing GHG emissions and sharing information on reductions. In recognition of these efforts, we have been selected as a Supplier Engagement Leader by CDP for two consecutive years.

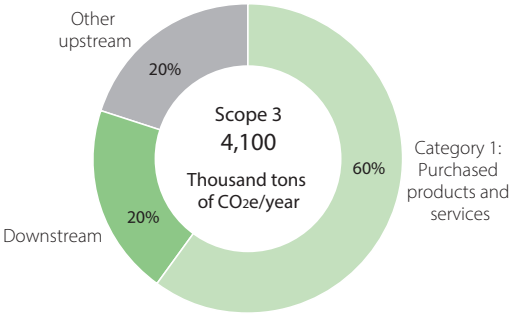
CDP SUPPLIER ENGAGEMENT LEADER 2021

Status of Scope 3 GHG Emissions

(Thousand tons of CO_2e/year)

Category	Emissions			
	FY2018	FY2019	FY2020	FY2021
1. Purchased goods and services	2,132	2,276	2,346	2,441★
2. Capital goods	394	151	164	141
3. Fuel- and energy-related activities not included in Scopes 1 and 2	298	581	585	559★
4. Upstream transportation and distribution	61	60	53	55★
5. Waste generated in operations	30	35	41	58★
6. Business travel	7	10	2	3
7. Employee commuting	9	11	11	9
8. Upstream leased assets	<1	<1	<1	<1
9. Downstream transportation and distribution	<1	<1	<1	<1
10. Processing of sold products	—	—	—	—
11. Use of sold products	44	40	42	45★
12. End-of-life treatment of sold products	780	879	806	788
13. Downstream leased assets	—	—	—	—
14. Franchises	—	—	—	—
15. Investments	—	—	—	—

Notes:
- For Scope 3 data, indirect greenhouse gas emissions from business activities throughout the supply chain are calculated separately by category and then added together.
- Calculated for Sumitomo Chemical and Group companies listed on stock indices in Japan (Sumitomo Pharma Co., Ltd.; Koei Chemical Co., Ltd.; Taoka Chemical Co., Ltd.; and Tanaka Chemical Corporation).
- Category 4 does not include Taoka Chemical Co., Ltd., but includes Nippon A&L Inc.
- Category 11 figures are N_2O converted into CO_2



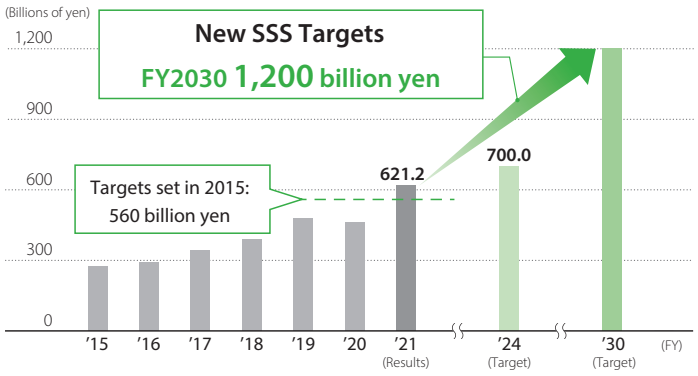
Climate Change Mitigation and Adaptation

Metrics and Targets (Opportunities)

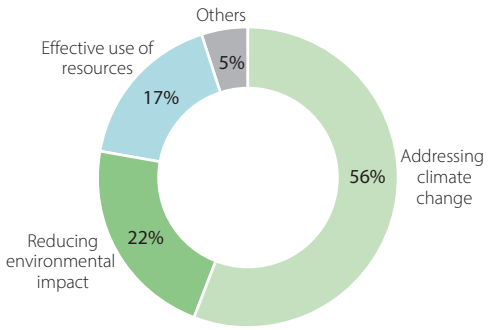
Sumika Sustainable Solutions (SSS) is used as a metric for climate-related opportunities. SSS is an initiative in which we designate those of our Group's products and technologies that contribute to the fields of addressing climate change, reducing environmental impact, and effective use of resources in order to promote their development and spread.

We have achieved our goal of 560 billion yen in sales revenue from designated products by FY2021. We have now set a new target of 1.2 trillion yen in FY2030, more than double the FY2021 level.

Sumika Sustainable Solutions' New Sales Revenue Targets



Environmental Contribution of Products and Technologies in Each Designated Field (FY2021)



	Results for FY2021
Sales of our group	2,765.3 billion yen
Sales revenue of SSS-designated products	621.2 billion yen
Number of SSS-designated products and technologies (total)	66

Sumika Sustainable Solutions

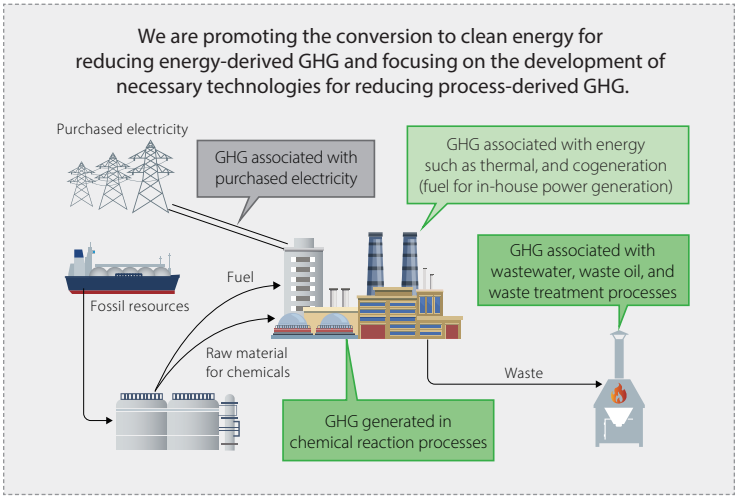
https://www.sumitomo-chem.co.jp/english/sustainability/management/promotion/sss/

Climate Change Mitigation and Adaptation

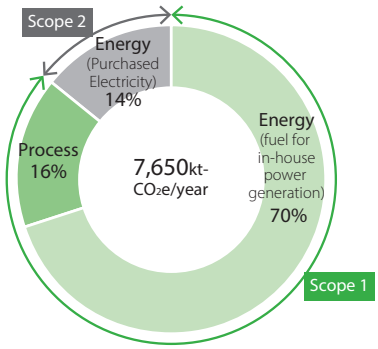
Specific Initiatives for "Obligation"

Major Sources of GHG Emissions from Chemical Plants

The chemical industry is an industry in which raw materials are converted into products through chemical reactions that are driven by electricity, heat from steam, and other forms of energy. Of our GHG emissions in FY2021, 70% come from energy sources such as in-house power generation, 16% came from processes resulting from chemical reactions and waste treatment, and 14% come from energy sources associated with purchased electricity. We aim to reduce GHG emissions by focusing on the conversion to clean energy for energy-derived GHG and on the development of necessary technologies for process-derived GHG.



■ GHG Emissions in FY2021



● Reduction of GHG from Energy (fuel for in-house power generation): Fuel Conversion

Sumitomo Chemical is working to reduce GHG emissions as an SBT-certified company. At plants in Japan, we are introducing highly efficient gas turbine generators and decommissioning a number of existing boilers. Aiming to reduce carbon emissions, we are switching from using conventional high CO_2-emission fuels like coal, petroleum coke, and heavy oil to using low CO_2 emission intensity fuels like liquefied natural gas (LNG).

In March 2022, at Ehime Works, Niihama LNG Co., Ltd.* operates the Niihama LNG Station, which supplies LNG instead of the conventional coal or heavy oil. In addition, Sumitomo Joint Electric Power Co., Ltd. plans to start operations in 2022 of the Niihama North Gas-Fired Power Plant, a facility currently under construction that will use LNG. The switchover to this power source is expected to result in a 650,000-ton annual reduction in CO_2 emissions in the near future. In addition, we plan to construct highly efficient gas turbine power generation equipment at Chiba Works that uses LNG instead of the existing petroleum coke, looking to complete construction in autumn 2023. With the construction of this equipment, we expect to reduce annual CO_2 emissions by over 240,000 tons (equivalent to around 20% of the CO_2 emitted by Chiba Works). It will also enable the supply of power to neighboring Group companies as we work hard to reduce GHG emissions across the entire Group.

* Funded by Tokyo Gas Engineering Solutions Corporation, Shikoku Electric Power Co., Inc., Shikoku Gas Co., Ltd., Sumitomo Joint Electric Power Co., Ltd., and Sumitomo Chemical

	Ehime region	Chiba region
Fuel	Coals and heavy oil ▶ LNG	Petroleum coke ▶ LNG
Amount of CO_2 reduction	650,000 tons/year	240,000 tons/year

March 2022: Completion of one of the largest LNG tanks in Japan on the Ehime Works site and start of supply

● Reduction of process-derived GHG: Innovations in Wastewater Treatment Technology

We have developed wastewater treatment technology utilizing biotechnology and realized reductions in the GHGs emitted by and fuel used in water treatment.

P.129 Sustainable Use of Natural Capital

Climate Change Mitigation and Adaptation

★: Assured by an independent assurance provider

● Reduction of GHG from energy (purchased electricity): Use of renewable energy

From November 2021, as part of its efforts to reduce GHG emissions, Sumitomo Chemical switched from externally purchased electric power at Oita Works to 100% renewable energy-derived power. Through this effort, we will reduce CO_2 emitted from the Works by around 20% relative to fiscal 2013. In addition, at the same Works, we switched the fuel used on site from heavy oil to the low CO_2 emission intensity city gas. We are working to optimize the plant operation conditions to maximize the effect and will achieve a total reduction in GHG emissions of around 30% year on year.

Initiatives Aimed at Reducing GHG Emissions at Each Worksite

Each Sumitomo Chemical worksite helps reduce GHG emissions, including in the following ways: installing the latest highly efficient equipment; introducing rationalization and energy-saving measures in production processes; switching to lower-carbon fuels and other forms of energy; installing LED lighting; and soliciting employee suggestions on how to further improve our energy-saving efforts. Furthermore, regarding cleanrooms and other facilities that are highly specialized and difficult to manage, we have launched initiatives in cooperation with experts. Information on the state of these activities is exchanged at Company-wide Energy Manager Meetings, at which representatives from each worksite gather in one location to work on reducing the GHG emissions of the Company as a whole.

State of Installing LED Lighting

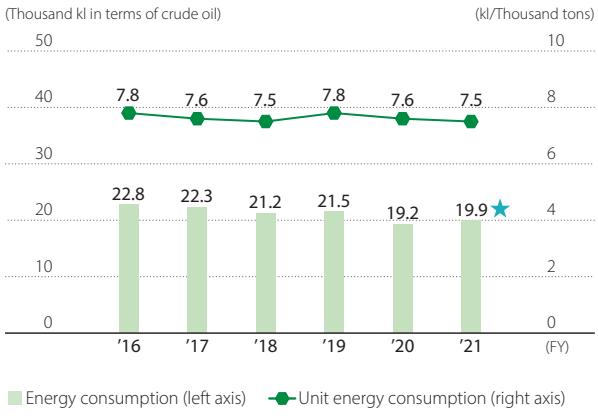
Over 50% of the lighting at all Sumitomo Chemical worksites has already been converted to LEDs, and we achieved the Japan Lighting Manufacturers Association's target of an SSL rate of 50% in 2020. Going forward, we will continue installing LEDs with the aim of achieving a 100% SSL rate in 2030 as a Company-wide initiative.

Logistics Initiatives

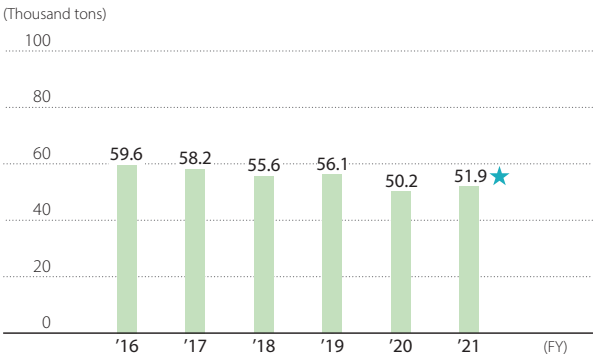
Sumitomo Chemical continues to promote modal shift, or transportation by more efficient and environmentally friendly modes, such as rail and ship instead of trucks. In fiscal 2021, energy consumption (crude oil equivalent) and carbon dioxide emissions increased compared with fiscal 2020 due to a recovery in the volume of cargo transported after falling in the previous year. Unit energy consumption fell 1.5% overall, for an average 0.5% improvement over the past five years, because of an increase in the amount of cargo loaded in intercoastal transport and a switchover to chartered vessels with better fuel performance. We will continue aiming to improve unit energy consumption by our target of 1% or more.

■ Reduction of Environmental Impact in Logistics Operations (Sumitomo Chemical and Group companies in Japan)

Energy Consumption and Unit Energy Consumption



CO_2 Emissions



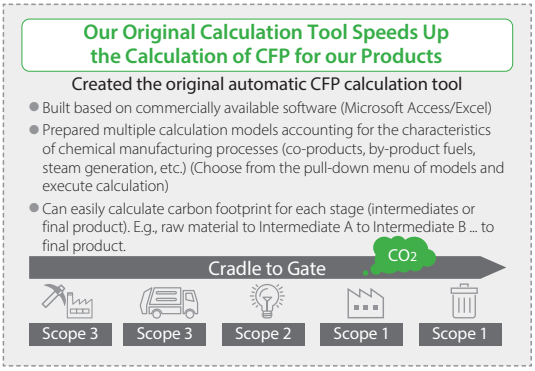
Note: Calculated for Sumitomo Chemical and a Group company in Japan (specified consigner: Nippon A&L Inc.)

Climate Change Mitigation and Adaptation

Specific Initiatives for "Contribution"

Development of Tools to Calculate the Carbon Footprint of Products (CFP)

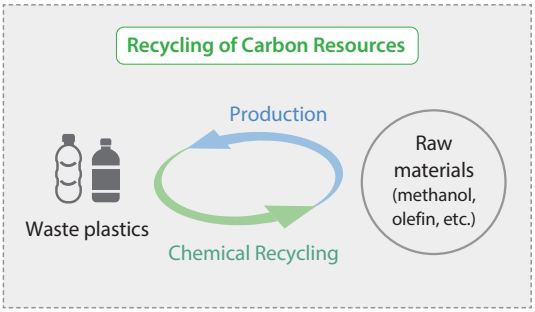
The evaluation of product CFP is essential to reduce GHG emissions in society. However, it is not easy to calculate the CFP of chemical products due to the complexity of their manufacturing processes. In response, we developed our own automatic calculation tool and completed the CFP evaluation of all of our products (approximately 20,000 items) by the end of 2021. In addition to aiming to complete CFP evaluations of Group companies' products by the end of FY2022, we have begun providing this tool to other companies free of charge.



Establishment of Carbon Resource Recycling System

We are developing chemical recycling technologies to convert garbage and waste plastics into basic raw materials for chemicals, such as methanol, ethanol, and olefins, and to use them as raw materials for new plastics.

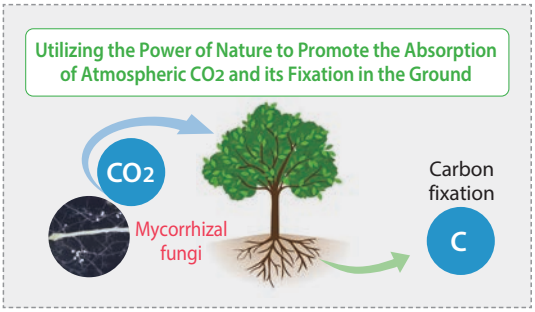
P.122 Contribute to Recycling Resources



Challenges to Carbon Negative Emissions

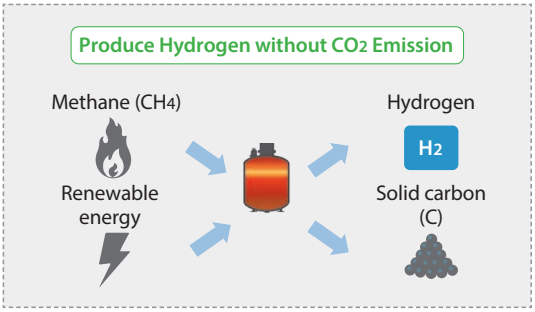
We are developing a technology whereby attaching useful micro-organisms existing in soil to the roots of plants and allowing them to coexist, we not only promote the absorption of CO_2 by plants through photosynthesis, we also fix CO_2 in the ground in the form of carbon compounds. This will enable ordinary fields, forests, and other natural spaces to absorb and fix even greater amounts of CO2, contributing a net negative amount of carbon to the atmosphere.

P.129 Sustainable Use of Natural Capital



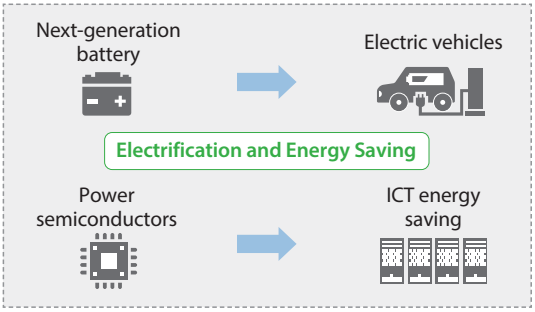
Response to Methane Gas

The future shift to clean energy will require the availability of CO_2-free hydrogen. To address this issue, we are developing a technology to produce hydrogen from methane without CO_2 emissions. This technology will help reduce methane, a GHG, and contribute to the realization of a carbon neutrality.



Highly Efficient Energy Infrastructure

One issue in the Society 5.0 concept is the increase in CO_2 emissions from the electricity necessary for transmitting massive volumes of data. In light of this, our company is contributing to creating energy-saving power supplies by providing compound semiconductor materials for next-generation power semiconductors. In addition, in response to the spread of electric vehicles, which is expected to accelerate going forward, we are working to develop next-generation storage batteries, such as solid-state batteries.

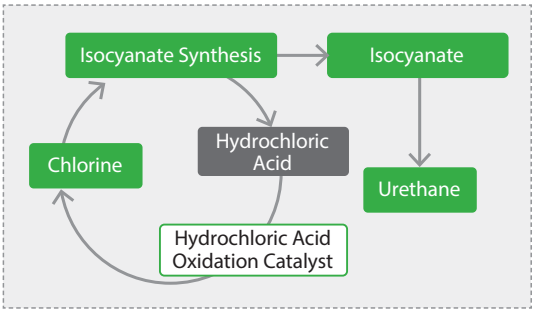


Climate Change Mitigation and Adaptation

Development of Hydrochloric Acid Oxidation Process Technology

Sumitomo Chemical has achieved a major reduction in environmental impact by recycling hydrochloric acid—a manufacturing byproduct—into a raw material through the development of technology that efficiently produces chlorine from hydrogen chloride. This technology allowed us to switch from energy-hungry conventional chlorine manufacturing to a process that uses less than one-fifteenth the energy and, over the next few years, will reduce our GHG emissions by two million tons per year (compared with electrolysis and other processes). We received the Grand Prize at the 54th JCIA Technology Awards (May 2022) for this technology from the Japan Chemical Industry Association (JCIA) for enabling the development and commercialization of a low-environmental impact process for manufacturing chlorine using hydrogen chloride (HCl).

■ Hydrochloric Acid Oxidation Process



JCIA Responsible Care Award

The Japan Chemical Industry Association awarded the Sumitomo Chemical Group the Excellence Award at the 14th JCIA Responsible Care Awards (Japanese only) for the Group's initiatives to promote sustainability, with the Misawa Works RC activities used as a case study (May 2020), and the Excellence Award at the 15th JCIA Responsible Care Awards (Japanese only) for Sumika Agro Manufacturing Co., Ltd.'s initiatives to reduce environmental impact (July 2021).

Maintained ISO 50001 Certification

In February 2020, Sumitomo Chemical acquired third-party ISO 50001 certification for energy management systems, the first diversified chemical manufacturer in Japan to do so, for its Responsible Care Department and the Ehime Works' methionine and electrolysis plants. In February 2021, the first surveillance audit* conducted since the third-party certification found no nonconformity or problem points and we were approved for maintaining certification.

* Conducted online due to the COVID-19 pandemic

Looking Ahead

In line with the Grand Design aimed at achieving carbon neutrality by 2050, which was released in December 2021, Sumitomo Chemical will leverage the technological capabilities and insights it has cultivated as a diversified chemical company to continue promoting initiatives to "fulfill its obligation" to realize zero Group GHG emissions by leveraging the technological capabilities and insights it has cultivated as a diversified chemical company and to "contribute" to the promotion of carbon neutrality throughout society via Group products and technologies.

Going forward, under Sumitomo Chemical's Business Philosophy of "working to contribute to society through our business activities," we will continue actively working to solve climate change problems and achieve carbon neutrality.

Contribute to Recycling Resources

<Resource Saving and Waste Reduction>

Basic Stance

Our lives are based on limited resources. Massive consumption of resources and disposal of waste lead not only to resource depletion, but also to the destruction of ecosystems. For sustainable use of resources, we need to reduce the consumption of natural resources while at the same time circulating the resources we have. Sumitomo Chemical is working on waste management and effective use of resources at our offices and works.

Management System

The president serves as the chief coordinator and the executive officer in charge of Responsible Care serves as the coordinator of the Environment and Climate Change Action Group of the Responsible Care Department. This group is responsible for matters related to environmental protection for the Company as a whole and supports the environmental protection activities of Group companies.

Our worksites (head offices, Works, research laboratories, etc.) have established sections in charge of environmental protection operations, appointed coordinators and managers, and execute specific duties. Regarding the execution of duties, the corporate department (Responsible Care Department) formulates Company-wide annual policies and Company-wide medium-term (three-year) policies. Then each worksite, in light of these policies and in consideration of its own characteristics and regional situation, formulates an action policy and undertakes specific activities from the new fiscal year.

Regarding amendments to laws and regulations, the Responsible Care Department vigilantly pays attention to trends related to the enactment and amendment of environmental laws and, as appropriate, provides feedback through national specialized committees and other organizations. All people addressing the problems also establish targets (details of the amendments, possible impacts, visualization of countermeasures, etc.) and commit the Company to addressing the issue being targeted.

Furthermore, with regard to amendments that have a large impact on business, we access the necessary information in advance and notify worksites to prepare for meeting compliance requirements.

P.96 Organization of Responsible Care

Examples of Initiatives

We are systematically working to reduce the amount of exhaustible raw materials used, quickly and properly dispose of PCB waste, and reduce the amount of industrial waste sent to landfills. Furthermore, we are setting targets related to recycling industrial and plastic waste and are promoting resource recycling initiatives.

Promoting Resource Saving

We are striving to enhance the economic benefits gained from resource saving activities, such as improving the throughput yield of exhaustible raw materials and product yield.

■ Exhaustible Raw Material Use (Sumitomo Chemical and Group Companies in Japan)

(Thousand tons)

	FY2019		FY2020		FY2021	
	Sumitomo Chemical and Group Companies in Japan	Sumitomo Chemical	Sumitomo Chemical and Group Companies in Japan	Sumitomo Chemical	Sumitomo Chemical and Group Companies in Japan	Sumitomo Chemical
Hydrocarbon compounds	1,829	1,545	1,704	1,449	1,713	1,429
Metals (excluding minor metals)	109	105	90.2	86.3	115	111
Minor metals	11.20	0.02	12.5	0.1	17.4	0.03

Note: Economic effects are detailed in the supplementary data (page 145)

Contribute to Recycling Resources

Thoroughly Managing Waste and Promoting Increased Recycling Internally and Externally

We have achieved a major reduction in industrial landfill waste by reducing the amount of industrial waste generated and promoting recycling. In addition, as a specified resource industry identified by the Act on Promotion of Effective Use of Resources, we are also working to reduce the generation of industrial byproducts (sludge). Furthermore, we are setting new targets related to recycling industrial and plastic waste from fiscal 2021 and are promoting resource recycling initiatives at each of our worksite and our Group company.

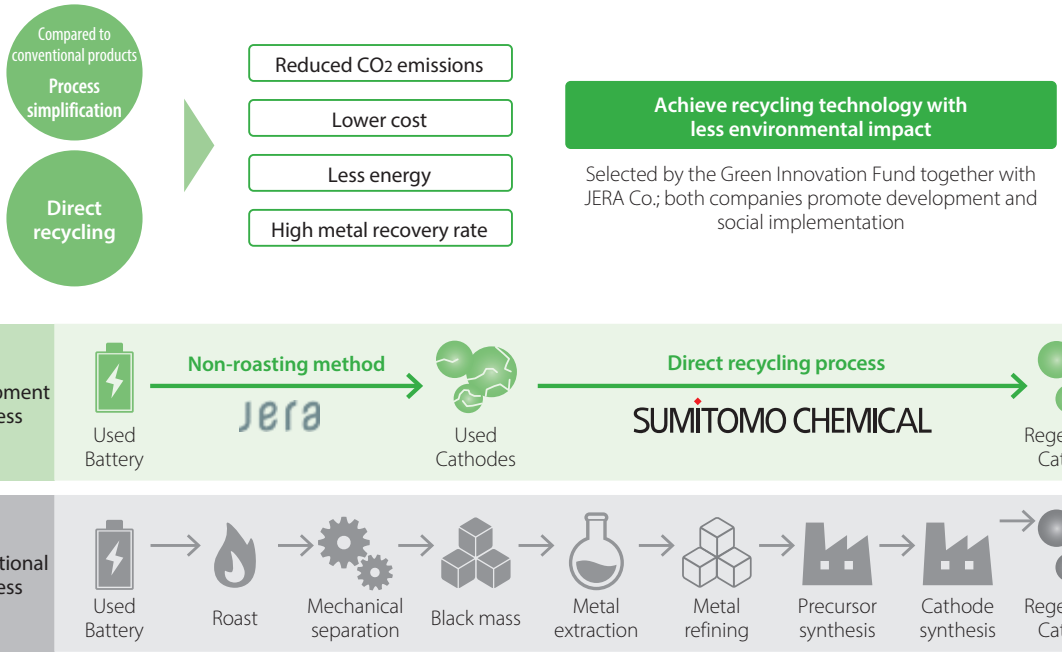
Moving up the Schedule for the Treatment of Waste with Minute Amounts of PCBs before Legal Disposal Deadline Set by the PCB Special Measures Law

We winnowed the external operators jointly contracted to dispose of waste by Group companies in Japan down to just one. Regarding the waste with minute amounts of PCBs (transformers, condensers, etc.) being stored or used by each company, we formulated and are carrying out a plan to treat the waste over multiple years. We plan to treat all applicable equipment by March 2025.

Initiatives to Realize Circular System for Rare Metals

Cathodes direct recycling

Recycling technology that regenerates cathodes collected from used lithium-ion secondary batteries without returning it to metal. JERA Co. and we were selected for NEDO's "Green Innovation Fund Project: Development of Next-Generation Storage Batteries and Next-Generation Motors". Both companies will promote development of the recycling technology and social implementation.



Contribute to Recycling Resources

<Circular System for Plastics>

Basic Stance

In order to further promote the development of recycling technologies and their implementation in society, Sumitomo Chemical have set KPI and target related to our contribution to recycling resources.

We will continue to utilize waste plastics as raw materials and promote actively the recycling in order to realize a society in which waste plastics are recycled as resources instead of being discharged into the environment.

Sumitomo Chemical Group Basic Policy Towards a Circular System for Plastics

Recognizing that plastic is a useful material supporting a sustainable society, the Sumitomo Chemical Group is committed to work towards building a circular system for plastics and resolving plastic waste problems in accordance with its Basic Principles for Promoting Sustainability and the following policy:

1. The Group contributes to resolving plastic waste problems through its business, particularly by providing technologies, products and services that leverage the power of chemistry.
2. The Group focuses on innovation regarding 3Rs—reduction, reuse and recycling—of plastics and works to accelerate the adoption of new solutions by society, while also considering an impact on actions against climate change issues.
3. The Group takes on challenges difficult to resolve alone, such as marine plastic problems, by working with various stakeholders through alliances and open innovation partnerships.
4. The Group provides its employees with education and awareness-raising programs based on sound science, while also engaging in social actions, such as initiatives for promoting waste sorting and collection and riverside and beach cleaning campaigns, to ensure that every one of its employees has a sense of ownership and can change their actions as needed to address plastic waste problems.
5. The Group constantly reviews progress and works to enhance and improve its efforts by the Plan-Do-Check-Act (PDCA) cycle method.

(Formulated June 2020)

Management System

To promote R&D related to chemical recycling, in 2020 we established research groups that deal with technologies to reduce environmental impact at the Petrochemicals Research Laboratory (currently the Essential Chemicals Research Laboratory).

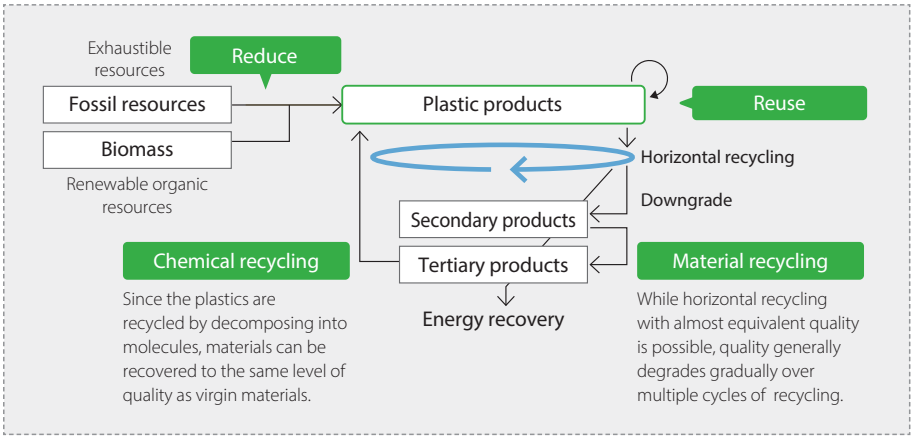
In pursuit of more practical, socially beneficial applications of this research, we are working to cultivate the market for plastic products made possible by securing and recycling plastic waste, especially through the Business Development Office for a Circular System for Plastics, which was established in 2021.

Contribute to Recycling Resources

Examples of Initiatives

Toward a circular system for plastics, it is important to make an effort to reduce, reuse, and recycle (material recycling and chemical recycling) at each stage of the plastic value chain. These efforts contribute to the reduction of fossil resource extraction and reduce greenhouse gas (GHG) emissions from manufacturing processes and disposal by reducing plastic use and waste.

Overall Picture of Circular System for Plastics



Efforts for 3Rs (reduce, reuse and recycle)

Method		Example of our initiatives	
Reduce	Reduce the amount of plastic used and the amount of waste plastic generated	<Refill Pouch> Compared with a bottle, this refill pouch is lighter, and therefore offers higher transportation efficiency, while also being stronger.	
Reuse	Reuse the same products	<Returnable Box> Compared with a cardboard box, this returnable box made of foamed polypropylene sheets can be used repeatedly, and therefore offers higher environmental friendliness, while also being superior in water resistance, load capacity and cleanliness.	
Material recycling	Reuse waste plastics as raw materials for new products	P.126 Material Recycling	
Chemical recycling	Chemically decompose municipal solid wastes and waste plastics and use them as new raw materials for plastics	P.127 Chemical Recycling	

Contribute to Recycling Resources

Material Recycling

We are promoting the development of various technologies to realize material recycling of plastic products.

● Recycled polypropylene (PP) for automotive applications

We have advanced technology to produce recycled PP using plastics from waste materials and End-of Life parts as a resource. Since June 2021, we have been studying a business alliance with REVER CORPORATION to establish a business alliance of recycling systems from resource recovery to sorting, reprocessing, and sales.

https://www.sumitomo-chem.co.jp/english/news/detail/20210609e.html

● A polyethylene product for packages and containers that contributes to achieving horizontal recycling

We have advanced technology to produce recycled PP using plastics from waste materials and Plastic packages and containers for food and daily necessities are composed of several layers, each of which is made of a different type of resin with a different characteristic, depending on the application, making them difficult to separate and sort for recycling. Sumicle® is a highly rigid PE product developed by our company for packages and containers, to the outer base layer where nylon or PET was traditionally used, all the raw materials of packages and containers can be unified to PE, making it possible to achive horizontal recycling of plastic product. We have already started providing samples and aim to commercialize the product as early as FY2022.

https://www.sumitomo-chem.co.jp/english/news/detail/20220331e.html

● Recycling technology for decolorizing printed layers of plastic packages and containers

Most plastic packages and containers have printing on their surface, so even if processed for material recycling, the ink colors remain, making it difficult to apply them for horizontal recycling.

In cooperation with PILOT CORPORATION, we are jointly developing a technology for decolorizing printed layers of plastic packages and containers through a recycling process.

https://www.sumitomo-chem.co.jp/english/news/detail/20220412e.html

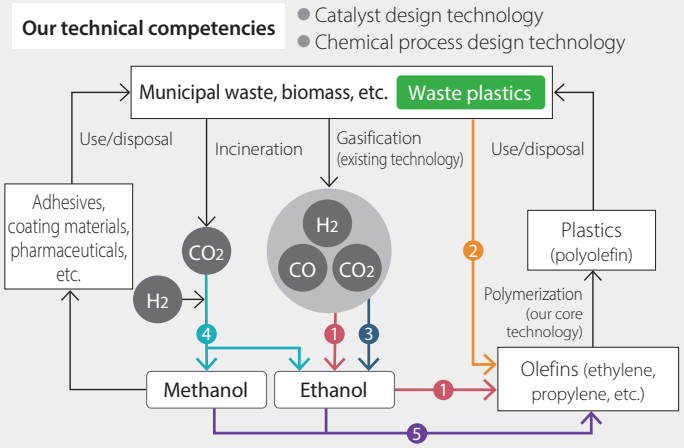
Contribute to Recycling Resources

Chemical Recycling

We are developing chemical recycling technology by leveraging our catalyst design and chemical processing design technologies, while also collaborating with partners. With chemical recycling technology, we will help to reduce the use of fossil resources, the amount of waste plastics, and GHG emissions from the incineration of waste plastics, and thereby contribute to building a sustainable society. In February 2022, in recognition of our ambitious efforts, two projects comprising four themes of chemical recycling technologies we are working on in collaboration with other companies and academia were selected by NEDO* for their Green Innovation Fund projects. We will continue to promote efforts to realize chemical recycling.

* New Energy and Industrial Technology Development Organization (NEDO)

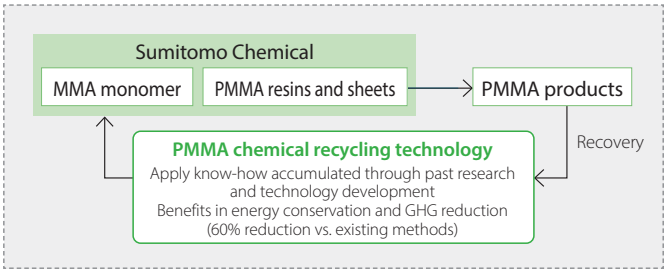
Develop Technology for Chemical Recycling Overview of Initiatives



Number on a chart	Technology	Cooperating Partners	Reference
1	Polyolefin production from waste derived ethanol	SEKISUI CHEMICAL CO., LTD.	Completion of test production facility (See TOPICS below)
2	Olefin production through direct cracking of waste plastics	Maruzen Petrochemical Co., Ltd. Muroran Institute of Technology	Adopted by NEDO (Project scale: approx. 25.30 billion yen)
3	Ethanol production using synthesis gas derived from waste plastics	National Institute of Advanced Industrial Science and Technology (AIST)	
4	Highly efficient alcohols production from CO_2	AIST Shimane University	Adopted by NEDO (Project scale: approx. 24.08 billion yen)
5	Olefin production from alcohols	AIST	

In addition to these efforts, we have established its own chemical recycling technology to pyrolyze acrylic resin (PMMA, polymethyl methacrylate) and regenerate it as raw material MMA monomer in collaboration with The Japan Steel Works, Ltd. We plan to construct a pilot facility at our Ehime Works and begin pilot tests in the fall of 2022, with sample provision starting in 2023.

PMMA Chemical Recycling Image of Initiatives



Sumitomo Chemical Completes Construction of Pilot Facility to Produce Renewable Ethanol-Based Ethylene for Environmentally-Sustainable Polyolefin
A New Initiative toward Achieving a Circular Economy

https://www.sumitomo-chem.co.jp/english/news/detail/20220411e.html

Sumitomo Chemical and Maruzen Petrochemical's Chemical Recycling Technology Project Selected as a NEDO Green Innovation Fund Project

https://www.sumitomo-chem.co.jp/english/news/detail/20220218e_2.html

Sumitomo Chemical's Projects to Develop Chemical Recycling Technologies Selected for NEDO's Green Innovation Fund Project

https://www.sumitomo-chem.co.jp/english/news/detail/20220218e_1.html

PMMA Chemical Recycling *a new Initiative to achieve carbon recycling* (Japanese Only)

https://www.sumitomo-chem.co.jp/automotive/new-products/03.html

Contribute to Recycling Resources

Completed construction of pilot facility to produce renewable ethanol-based ethylene for environmentally sustainable polyolefin

In April 2022, we established a new pilot ethylene production facility at our Chiba Works (Ichihara City, Chiba Prefecture) that uses environmentally friendly ethanol derived from waste and biomass as a raw material. This will enable us to manufacture polyolefin product with both reduced environmental impact and high quality equivalent to conventional products. Currently, we are cultivating the market by providing samples, aiming for commercialization in FY2025.

https://www.sumitomo-chem.co.jp/english/news/detail/20220411e.html

Recycled Plastic Brand

In September 2021, we launched Meguri®, a new brand for recycled plastic products. In the future, we will expand the Meguri® product lineup and increase production and sales of these products, thereby playing a role in realizing a circular economy.

Meguri
CIRCULARITY FOR ALL

https://www.sumitomo-chem.co.jp/english/news/detail/20210908e.html

https://www.sumitomo-chem.co.jp/circular-plastics/en/

Looking Ahead

Sumitomo Chemical identified contributing to resource recycling as a material issue to be undertaken by management. Going forward, to achieve greater progress, we will continue to further promote initiatives aimed at developing resource recycling technology and promoting practical, socially beneficial applications by leveraging the technological capabilities and insights we have cultivated as a diversified chemical company.

Sustainable Use of Natural Capital

Basic Stance

Now that the goal of halting the decline of natural capital and putting it on a recovery track by 2030 is widely supported by the international community, we have once again recognized ecosystem conservation and sustainable use of natural capital as important issues and are promoting relevant initiatives across the entire Group. Specifically, we have set targets in each field, including biodiversity conservation, air conservation, sustainable water and soil usage, and appropriate chemical substance management, and strive to enhance initiatives aimed at achieving these targets at each worksite and Group company.

We are focusing on the following specific measures.

1. Appropriate Response to Laws and Regulations
   (1) By maintaining careful control of the execution and management of construction plans, we ensure appropriate response to notifications when changing the soil type of specified facilities that use hazardous substances and an expansion of opportunities for soil contamination surveys. (Soil Contamination Countermeasures Act)
   (2) We have enhanced the evaluation and management of environmental risks related to specified chemical substances expected to be selected under the PRTR Act. (PRTR Act)
   (3) Regarding refrigeration units using CFCs and HCFCs, we are systematically upgrading to equipment that uses lowGWP HFCs or non-fluorocarbon refrigerants (Ozone Layer Protection Law). We are also steadily disposing of the fluorocarbons from refrigeration and air conditioning equipment to be thrown away. (Act for Rationalized Use and Proper Management of Fluorocarbons)
   (4) We will remove all electronic equipment that uses PCBs (in storage or in operation) ahead of the deadline of March 2025. (Act on Special Measures against PCB Waste)
2. Reducing Environmental Impact
   Going forward, we will keep working to achieve our medium- to long-term voluntary management targets in the fields of air, water, soil, and waste, focusing our response on production bases.
3. Responding to Biodiversity Preservation
   We will promote initiatives unique to each worksite in line with the particular characteristics of their location.

Management System

Regarding the management system for the sustainable use of natural capital, please refer to Management System for Resource Saving and Waste Reduction (p.122).

P.122 **Contribute to Recycling Resources:** Management System

Sustainable Use of Natural Capital

★: Assured by an independent assurance provider

Goals and Results

The Sumitomo Chemical Group has established key environmental protection items as common goals. By following up on the results of each Group company, we are working to reduce our environmental impact in a systematic way.

P.108 Sustainable Use of Natural Capital

Environmental Performance

Sumitomo Chemical collects and totals environmental data for the Company and Group companies in Japan, including data on energy and resource consumption, production quantities, and environmental impact (e.g., release of pollutants into the air and water).

PP.141–143 FY2019–2021 Environmental Performance

■ FY2021 Primary Environmental Performance (Sumitomo Chemical and Group companies in Japan)

Figures in black: Sumitomo Chemical and Group companies in Japan
Figures in green: Sumitomo Chemical

INPUT Energy and Resources

Water ★

(Million tons)

Industrial water	70.5	67.1
Drinking water, etc.	0.9	0.5
Seawater	862	176
Groundwater	25.5	22.7
Other water	2.7	2.7

Energy ★
Calculated as kl of crude oil

(Thousand kl)

Fuel, heat, and electricity*1	1,801	1,008

Exhaustible Resources

(Thousand tons)

Hydrocarbon compounds	1,713	1,429
Metals (excluding minor metals)*2	115	111
Minor metals*3	17.4	0.03

PCB/CFCs under Secure Storage

No. of electrical devices containing high concentrations of PCBs*4	0 units	0 units
PCB volume*4	0 kl	0 kl
No. of refrigeration units using specified CFCs as a coolant	27 units	11 units
No. of refrigeration units using HCFCs as a coolant	233 units	98 units

OUTPUT Product Manufacturing and Environmental Impact

Products ★

(Thousand tons)

(Calculated on the basis of ethylene production)*5	2,613	1,401

Water Pollutant Emissions ★

(Tons)

COD	Coastal waters/waterways	960	895
	Sewer systems	207	87.4
Phosphorus	Coastal waters/waterways	36.1	33.8
	Sewer systems	5.9	5.3
Nitrogen	Coastal waters/waterways	1,303	1,226
	Sewer systems	68.6	28.4
Substances subject to the PRTR Act		11.1	6.5

Waste Materials ★

(Thousand tons)

Waste emissions*6	276	65.5
Landfill*6	30.7	1.9
(Breakdown)		
On-site landfill	0	0
External landfill	30.7	1.9

Atmospheric Emissions ★

(Thousand tons of CO_2e)

Greenhouse gases (seven gases)*1	6,241	3,372
CO_2 emissions from energy use	5,435	2,736
CO_2 emissions from other than energy use	655	612
CH_4	6	1
N_2O	143	22
HFC, PFC SF_6, NF_3	2	2

(Tons)

Others		
NOx	3,901	1,743
SOx	3,896	943
Soot and dust	173	98.5
Substances subject to the PRTR Act	420	222

*1 The energy (calculated as kl of crude oil) and greenhouse gas (all seven gases) indices were calculated in accordance with the GHG Protocol (refer to page 249 "Calculation Standards for Environmental and Social Data Indicators") for principal consolidated Group companies in Japan, which account for up to 99.8% of consolidated net sales.
• Having adopted the GHG Protocol standards for our GHG emission disclosures, we now include the following data that was not included in previous calculations: amount of energy used to produce electricity and steam sold to external parties by the Group and the resultant CO_2 emissions; amount of energy used by Sumitomo Chemical and Group companies in Japan non-production sites and the resultant CO_2 emissions; CO_2 emissions from non-energy sources not included in the scope of the Act on Promotion of Global Warming Countermeasures.

*2 Calculations include the following 12 metals: iron, gold, silver, copper, zinc, aluminum, lead, platinum, titanium, palladium, gallium, and lithium.

*3 Calculations include the following seven minor metals: nickel, chromium, tungsten, cobalt, molybdenum, manganese, and vanadium. The supply structure for each of these minor metals is extremely fragile. These minor metals are subject to national stockpiling.

*4 Fluorescent lamps and mercury lamp ballast as well as contaminated substances (wastepaper, etc.), including PCB waste, are not included in unit and volume data.

*5 Certain assumptions were made in calculations due to the difficulty of obtaining weight-based figures for some products.

*6 The amount of coal ash generated at Sumitomo Joint Electric Power, which is included in "Waste emissions" and "Landfill" (Sumitomo Chemical and Group companies in Japan) is calculated on a dry-weight basis.

Sustainable Use of Natural Capital

Examples of Initiatives

<Biodiversity Preservation Initiatives>

Working to preserve biodiversity is one of Sumitomo Chemical's most important pillars as it strives toward building a sustainable society. Since formulating Sumitomo Chemical's Commitment to the Conservation of Biodiversity, Sumitomo Chemical has strengthened its initiatives, including setting ISO 14001 activity goals for biodiversity preservation aligned with the Commitment at All worksites. The Company has been actively participating in a private-sector biodiversity partnership and promoting initiatives through business while giving considerable thought to what we should be mindful of as a chemical company.

生物多様性民間参画パートナーシップ

(Japanese only)

Sumitomo Chemical's Commitment to the Conservation of Biodiversity

1. We position the conservation of biodiversity as one of our most important management issues and strive to help protect the global environment.
2. We work to continuously reduce environmental impact in our production operations and our development and supply of products and services and in cooperation with third parties in the supply chain and thereby contribute to the conservation of biodiversity.
3. By regularly implementing education programs, we ensure that employees fully recognize and understand the importance of biodiversity and promote our commitment to its conservation.
4. We continuously engage in corporate social responsibility activities that contribute to environmental protection and lead to greater trust and confidence from society.
5. We disclose the results of these efforts and maintain effective communication with the general public.

Sumitomo Chemical's Biodiversity Preservation Initiatives

1. Reducing our environmental burden	2. Encouragement of conservation of environments where organisms live	3. Mainstreaming initiatives and alliances with stakeholders	4. Preventing climate change and effectively using resources
Considering the environment in business activities • Surveying benthic river organisms • Monitoring emitted water and gas, installing autonomous measuring equipment, and combatting odors through activated sludge treatment and activated carbon absorption • Undertaking environmental impact assessments at the planning stage for new plant construction and implementing countermeasures • Promoting the 3Rs and managing waste • Undertaking proper management of chemical substances • Complying with internal safety management regulations pertaining to the use of genetically modified organisms	**Improving the scenery and upgrading of environments where organisms live** • Conserving reservoirs and using them to promote biodiversity • Promoting the greening of each worksite's premises and neighboring areas • Taking countermeasures for white smoke (To render invisible the gas emitted after incineration to reduce, recycle, and detoxify waste and wastewater onsite (white smoke), we have installed cooling equipment to condense the vapor.)	**Alliances with stakeholders** • Participating in private partnerships for biodiversity • Incorporating marine plastic waste collection initiatives into management programs based on ISO 14001 • Supporting green curtain businesses • Supporting the Osaka plastic zero declaration • Participating in volunteer cleanup activities	**Saving energy, saving resources, and reducing greenhouse gases** • Conducting energy-saving activities based on ISO 50001 • Reducing CO_2 emissions (switching fuels, installing gas cogeneration systems, etc.)
Promoting "Sumika Sustainable Solutions" • Developing and promoting products with low environmental burden			
Relevant SDG targets: 7. a, 13.3	Relevant SDG targets: 6.3, 6.6, 14.1, 15.1, 9.4, 12.2, 12.4, 12.5, 11.6	Relevant SDG targets: 13.3, 15.1, 15.2	Relevant SDG targets: 11.6, 14.1, 14.2, 15.1, 15.2

Sustainable Use of Natural Capital

Biodiversity Preservation Initiatives

Promoting 30 by 30

30 by 30 is a worldwide goal to effectively conserve 30% of Earth's land and sea areas as healthy ecosystems by 2030 with the aim of stopping the loss of biodiversity and reversing the trend. Sumitomo Chemical participates as an initial member in the 30 by 30 Alliance for Biodiversity, which comprises volunteer companies, municipalities, and organizations. We aim to register the green spaces we manage as nature coexistence areas that contribute to the 30 by 30 goal and will continue further promoting the conservation of biodiversity.

Preserving the Environment of Sakuragaike (Misawa Works)

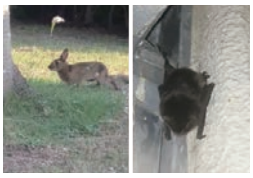
To prevent damage from heavy rains at Misawa Works, we created a retention pond that can store 50,000 tons of water. The pond (*ike*) was named Sakuragaike because of the cherry trees (*sakura*) planted in the surrounding area. Platanus, Sakhalin fir, double cherry, Sargent's cherry and other trees have been planted along its banks. Many different wild animals live around the pond, such as foxes, tanukis, and serows as well as a wide variety of birds, including ducks and cormorants.

To maintain Sakuragaike, we do not use synthetic chemical insecticides or germicides and instead regularly prune the trees of withered and diseased branches every three years.


Sakuragaike


Double cherry

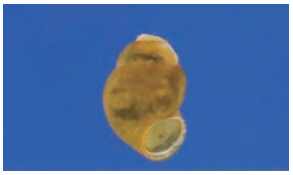

Left: Grey heron Right: Cormorants


Left: Rabbit Right: Bat

Water Area Surveys Conducted around Works (Misawa Works)

To confirm the impact of business activities on water areas, we conduct aquatic wildlife surveys of the Sabishiro River, into which process water from the Works flows.

In the Sabishiro River, we confirmed 10 species of precious aquatic benthic organisms, such as a vulnerable species of Stenothyra and the endangered species Cottus reinii. We determined that we were maintaining ecosystems with extremely good water quality.


Stenothyra


Cottus reinii


Dugesia japonica


A subspecies of *Tubifex tubifex*

Initiatives at Works in Japan (Oita Works, Gifu Plant)

At the Oita Works, as part of greening efforts, we planted Asiatic jasmine along about 250 meters of the wall north of the front gate. At the Gifu Plant, so as not to infringe upon the scenery of the surrounding areas, we are promoting the greening and beautification of the plant's premises and borders.


Oita Works' green belt


The area surrounding the Gifu Plant's fish pond

Sustainable Use of Natural Capital

<Protecting the Atmospheric Environment>

By strengthening our measures for fixed emission sources, we are working on reducing our various environmental impacts, including emissions of soot and dust mainly from boilers and gas turbines, leaks of fluorocarbons from refrigeration equipment, emissions of mercury from industrial waste incinerators, emissions of chemicals and VOCs from manufacturing plants, and air-borne asbestos from the demolition of buildings.

Reining in PM2.5* Emissions

We conduct detailed surveys of boilers, gas turbines, heating furnaces, dry furnaces, cracking furnaces, waste incinerators, and other such equipment, testing for emissions of VOCs and other gaseous atmospheric pollutants, soot, SOx, NOx, and hydrogen chloride, which are also the source of secondary particles and PM2.5. We strive to further reduce emissions for each source by taking measures to switch to alternative fuels.

* Particulate matter of up to 2.5 μm in diameter

P.146 Environmental Activities: Supplementary Data

Managing Fluorocarbon Refrigeration Equipment

In line with the main points of Act on Rational Use and Proper Management of Fluorocarbons, we are strengthening the management of equipment and upgrading to equipment with low global warming potential (GWP) as a way to preserve the ozone layer and prevent global warming.

As part of efforts to protect the ozone layer and combat global warming, we are systematically upgrading fluorocarbon refrigeration equipment (units that use CFCs, HCFCs, HFCs) employed in production processes to equipment that uses HFCs with a low GWP or non-fluorocarbon refrigerants. Our goal is to complete these upgrades within the upgrade deadlines for the equipment.

Fluorocarbon refrigeration equipment

● Upgrade Deadlines for Each Type of Equipment

- CFC equipment: Eliminate use of these units by fiscal 2025 (currently a total of 27 units held by the Group)
- HCFC equipment: Eliminate use of these units by fiscal 2045 (currently a total of 233 units held by the Group)

■ Calculated Leakage for Fluorocarbons

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Calculated leakage (tons-CO_2)	17,888	9,135	4,782	7,675	9,354	4,362	5,100

In addition, we regularly examine the fluorocarbons used in industrial refrigeration and air conditioning equipment and devise ways of minimizing leaks identified in equipment designated as needing attention based on leakage history categorized by equipment type.

Furthermore, as a response to the revised Act on Rational Use and Proper Management of Fluorocarbons, we thoroughly conduct management to steadily dispose of residual fluorocarbons inside waste equipment, including the use of check sheets when disposing of equipment.

Emissions of Mercury into the Atmosphere from Waste Incinerators

We measured concentrations of mercury (both gas and particles) emitted into the atmosphere by our waste incinerators, which we own, and completed a study of the impact of these emissions. The results have confirmed that mercury is being effectively removed by emission gas removal equipment, including bag filters and scrapers installed at incinerators, and that the concentration of mercury released into the atmosphere from all of the incinerators we own is within the emission guideline value set under the Air Pollution Control Act.

Sustainable Use of Natural Capital

<Sustainable Use of Water>

To maintain production at worksites and conserve nearby aquatic environments, we strive to appropriately manage wastewater, achieve more sophisticated activated sludge treatment, and promote effective water use based on water risk evaluations at each production base.

Protecting the Aquatic Environment

In addition to our initiatives aimed at reducing overall water use, we have realized thorough purification of wastewater from worksites by operating stable and sophisticated wastewater treatment facilities.

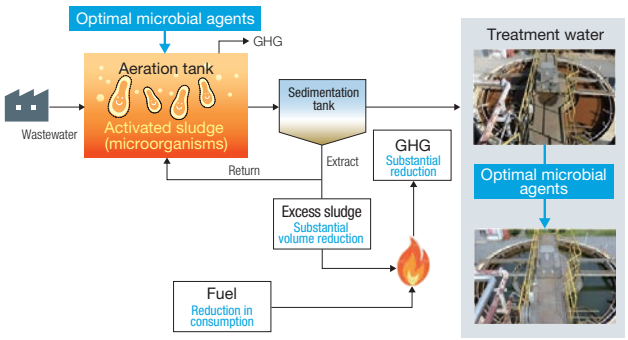
● Responding to Increasing Sophistication of Activated Sludge Treatment

At all Works, we are striving to develop management technologies for water treatment that will further reduce our environmental impact and apply these technologies to realize safe and secure wastewater treatment.

At Works, for process wastewater that is difficult to break down, which was conventionally incinerated for treatment, we have developed an activated sludge treatment utilizing microbial immobilization technology to stabilize the process water and reduce treatment costs. We are still considering applying this treatment to a wider scope of water.

Innovations in Wastewater Treatment Technology

Sumitomo Chemical is promoting biotechnological wastewater treatment. Wastewater treatment is an essential initiative to prevent water pollution and promote the recycling and reuse of water resources, but it requires a lot of energy for treatment and generates GHG when excess sludge is incinerated. To address this issue, we have improved wastewater treatment capacity while reducing the amount of sludge generated, GHG emissions associated with wastewater treatment, and fuel consumption through the use of optimal microbial agents. We will continue to contribute to the sustainable use of water resources through the widespread use of our wastewater treatment technology.



● Responding to Water Quality Standards

We are strengthening our voluntary management to continually reduce the COD, nitrogen, and phosphorus in wastewater emitted into the ocean and waterways from wastewater treatment facilities. In addition, we have realized stable treated water quality by enhancing the management technologies used in water treatment facilities. We are continually working to reduce the impact of water emissions from our plants on Tokyo Bay and other closed coastal waters where systems have been implemented to regulate the total water emissions of COD, nitrogen, and phosphorus.

● Promoting the Effective Use of Water

We investigate water risks related to intake, effluence and physical risk at each worksite and Group companies in Japan and overseas. We uncover various issues related to the use of fresh water on the worksite level and assess and manage the associated risks. In addition, we strive to reduce the amount of water we use by examining more effective ways to use water by application, while continuing to maintain and improve the quality of water released from our business sites into public water resources such as the ocean and waterways.

Sustainable Use of Natural Capital

★: Assured by an independent assurance provider

Water Usage (Sumitomo Chemical Group)

(Million tons)

	FY2019	FY2020	FY2021
Sumitomo Chemical Group	1,030	992	970
(Breakdown 1)			
Sumitomo Chemical	280	261	269★
Group companies in Japan	743	723	693★
Overseas Group companies	7.40	7.99	8.27
(Breakdown 2)			
Seawater	924	884	862
Fresh water	106	109	108

Notes: • Water usage volume includes seawater
• At Sumitomo Chemical Works, we determined that industrial water and seawater intake is not partially included, and we revised the figures for Sumitomo Chemical and the Sumitomo Chemical Group in fiscal 2019 and 2020.

Wastewater Detoxification Initiatives (Misawa Works)

Wastewater from the Misawa Works goes through general activated sludge treatment, then, after finishing tertiary treatment of activated carbon absorption and the removal of floating substances through coagulation and sedimentation, analysis equipment does quality checks and the water is released into public waterways.

Activated sludge treatment facility

Evaluating Water-Related Problems

Regarding maintaining production at production bases in the Sumitomo Chemical Group, we conduct water risk evaluations at each production base from the dual perspectives of physical water risks and water quality susceptibility risks of intake and effluence.

● Evaluating Physical Water Risks

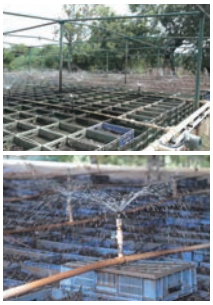
The Group evaluates the baseline water stress in communities where production bases are located as well as underground water stress, the severity of droughts caused by seasonal changes in the water supply, the water storage capacity of the drainage basin, projected changes in water stress, and the percentage of water resources in the drainage basin that are protected.

As a result of the evaluation results, we are taking specific actions to reduce risks going forward for plants evaluated to have high water-related risks.

Measures to Continue Production in High Water-Related Risk Areas (Sumitomo Chemical India)

According to the Aqueduct Water Risk Atlas,India is one of the countries as having a high baseline with regard to water stress (physical risk) .

In the surrounding area where Sumitomo Chemical India's Bhavnagar plant is located, population growth, increased demand for water for agricultural use, and decreased precipitation have made the decrease in water resources a challenge. To address this issue, the plant decided to purchase wastewater from households for partial reuse and to treat it within the plant for use in production. In addition to laying 2km of piping to transport the household wastewater to the plant, the plant uses earthworm farming technology to treat the wastewater, rather than the more common activated sludge method, to suit the characteristics of household wastewater, which contains a relatively high amount of nutrients. This approach has made it possible to secure a stable amount of water needed for production activities while reducing the amount of river water previously purchased from the local government by more than 70%. It has also achieved the economic effect of reducing water purchase costs by about half.



Wastewater being purified through earthworm farming

● Evaluating Water Quality Susceptibility Risks of Intake and Effluence

The Group evaluates susceptibility in terms of access to drinking water, water pollution, protected downstream areas, and the presence of endangered species in bodies of fresh water identified by the International Union for Conservation of Nature (IUCN).

Sustainable Use of Natural Capital

Effective Use and Management of Yoshioka Springs (Ehime Works)

The name of Yoshioka Springs comes from the Yoshioka family's residence and pond. To provide water to the Kawahigashi district, which had been struggling with water shortages, the springs were created in 1917 by the local residents, and a canal was completed in 1921. After passing through the ownership of several companies, Sumitomo Chemical currently manages the springs.

The supply of water from Yoshioka Springs uses height difference and does not require an outside force, and it is not only an important source of water for the Company, it is used in districts throughout the city for irrigation. To preserve the aquatic environment, we remove weeds from and clean the springs and grounds at Ehime Works around three times a week.

Present-day Yoshioka Springs

CDP Water Security A List 2021

Sumitomo Chemical was selected by CDP to receive the highest rating in its Water Security A List 2021 for the second consecutive year as a company taking especially excellent actions for water security. Among the roughly 3,400 companies worldwide that disclosed water security data, such as water-related risks and biodiversity action, the ones that were selected for the A List totaled 119 worldwide and only 37 in Japan.

Sumitomo Chemical Receives CDP's Highest Rating in Corporate Climate Action and Water Security Action

https://www.sumitomo-chem.co.jp/english/news/detail/20211208e.html

Sustainable Use of Natural Capital

<Sustainable Use of Soil>

We recognize that the conservation and restoration of soil is an important initiative to ensure the sustainable use of natural capital. We strive to assess the soil environments of worksites and prevent soil pollution while working to conserve and restore the soil in various regions, utilizing our know-how related to agrochemicals and biotechnology.

Protecting the Soil Environment

We quantify the soil environments of worksites, strictly prevent the diffusion of pollutants, and actively work to prevent contamination.

● Regularly Monitoring Groundwater

We analyze the groundwater at the boundaries of our worksites to confirm that levels of hazardous materials are below those stipulated by standards.

● Preventing Soil Contamination

We have established rules regarding the construction standards and the content of regular inspections for various equipment, including the gutters, floors, plumbing, and bund walls of facilities handling chemical substances. We are working to prevent soil contamination from leaks by thoroughly complying with these rules and to prevent the dispersal of hazardous substances outside of plant premises.

Utilization of Know-how Related to Agrochemicals and Biotechnology

Efforts to conserve and restore the soil environment are important to achieve the promotion of sustainable agriculture. We will contribute to the sustainable use of soil through our business by utilizing our accumulated expertise in agrochemicals and biotechnology.

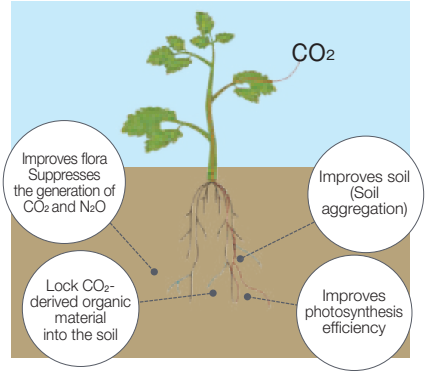
● Contributed to the spread of no-till farming

No-till farming is a method of agriculture in which tillage is not done before sowing the crop. No-till farming has attracted increasing attention worldwide in recent years because of its ability to protect soil from wind and water erosion, conserve soil organic matter, and eliminate mechanical tillage to save fuel and reduce GHG emissions. With herbicides such as Rapidicil® and flumioxazin, we hope to contribute to the realization.

● Soil fertility by mycorrhizal fungi

Mycorrhizal fungi, a type of soil-dwelling microorganism that lives in symbiosis with plant roots, stimulates plant growth by accepting carbon compounds produced by plants through photosynthesis. This property increases the amount of carbon compounds in the soil and promotes carbon fixation, thereby reducing atmospheric CO_2 and contributing to soil fertility. We are working on the development of technology utilizing mycorrhizal fungi to achieve carbon neutrality and solve food problems.

■ Benefits of Mycorrhizal Fungi
(Including Some Hypotheses Undergoing Validation)



Sustainable Use of Natural Capital

<Appropriate Management of Chemical Substances>

Regarding Class I designated chemical substances (PRTR Act) and VOCs, we conduct environmental risk analyses regardless of the amount emitted into the environment. We are also taking measures to reduce use and emissions.

Meeting Voluntary Environmental Targets

At the boundaries of plant premises and at final drainage exits, we have set voluntary environmental targets for the concentration of pollutants in air and water and work to meet those targets. Utilizing METI-LIS provided by the Ministry of the Economy, Trade and Industry, we simulate the atmospheric dispersion concentration of Class I designated chemical substances (PRTR Act) of plant premises and identify fixed emission sources that would effectively reduce concentrations.

Reducing Atmospheric Emissions (FY2021 results: atmospheric emissions accounted for around 97% of total emissions (air and water))

We are, of course, taking measures to reduce emissions mainly by sealing facilities and improving operation methods. But we are also working to intently and systematically reduce atmospheric emissions primarily by additionally taking such disposal measures as recovering emissions through absorption, purification, and stronger cooling; incinerating emissions; and suppressing emissions through internal floating roofs for tanks.

Operating Company-wide PRTR Calculation Systems

Using the Company's proprietary calculation system, Sumitomo Chemical is striving to increase the accuracy and level of detail of the data on emission amounts and transfer amounts for each substance.

Looking Ahead

The focus of Sumitomo Chemical Group's basic policy on protecting the environment has shifted since the early 2000s from responding to laws and regulations toward strengthening voluntary management. As pressure increases to protect the environment on a global scale and to improve the efficacy of the measures taken at each worksite, we think it is necessary to understand trends (such as international environmental protection and resource recycling, biodiversity preservation, action on water risks) better than ever and take forward-looking action.

From the perspective of continued risk management, we are focusing our efforts on issues that are assessed as being high risk over the medium to long term and take appropriate action that enhances voluntary management while continuing to contribute to the sustainable use of natural capital.

Environmental Activities: Supplementary Data

1 Climate Change Mitigation and Adaptation

Reducing Greenhouse Gas Emissions

■ Greenhouse Gas Emissions (All Seven Gases) (Sumitomo Chemical (All worksites))

(Thousand tons of CO_2e)

		FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
CO_2	Energy sources	3,347	2,559	2,405	2,454	2,543	2,722	2,645	2,549
	From other than energy use	65	55	50	93	155	142	157	146
Methane (CH_4)		—	—	—	—	—	—	—	—
Nitrous oxide (N_2O)		76	65	45	35	23	15	20	22
Hydrofluorocarbon (HFC)		—	—	—	—	—	4	4	—
Perfluorocarbon (PFC)		—	—	—	—	—	—	—	—
Sulfur hexafluoride (SF_6)		—	—	—	—	—	—	—	—
Nitrogen trifluoride (NF_3)		—	—	—	—	—	—	—	—

Note: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.

Environmental Activities: Supplementary Data

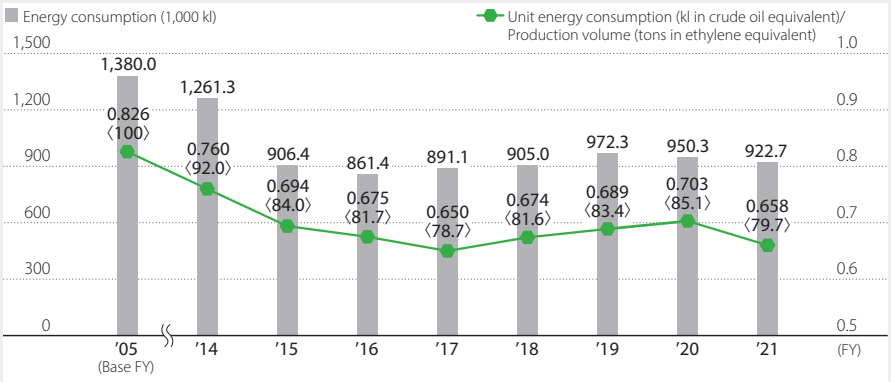
Energy Saving

FY2021 Breakdown of Unit Energy Consumption (Sumitomo Chemical)

	Energy consumption (1,000 kl in crude oil equivalent) (a)	Production (1,000 tons in ethylene equivalent) (b)	Unit energy consumption (a/b)
Ehime Works	468.6	755.3	0.620
Chiba Works	320.8	377.0	0.851
Osaka Works	23.7	18.3	1.298
Oita Works*	64.7	72.0	0.899
Misawa Works	11.4	11.0	1.030
Ohe Works	33.6	168.3	0.200
Total	922.7	1,401.9	0.658 <79.7% compared with FY2005>

Note: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.
* Data for the Oita Works includes data for the Gifu and Okayama plants.

Energy Consumption and Unit Energy Consumption (Sumitomo Chemical)



Note: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.

FY2021 Results

Energy consumption totaled 922.7 thousand kl in crude oil equivalent in fiscal 2021.
In fiscal 2021, unit energy consumption improved 6.3% compared with fiscal 2020 and improved 20.3% compared with fiscal 2005.

FY2021 Energy Consumption and CO_2 Emissions (Sumitomo Chemical and Group Companies in Japan (All worksites))

	Energy consumption (1,000 kl in crude oil equivalent)	CO_2 emissions from energy use (1,000 tons)
Sumitomo Chemical	936	2,549
Works	923	2,524
Non-manufacturing sites including the Head Offices and Research Laboratories	13	25
Sumitomo Chemical and Group companies in Japan	1,806	5,327
Works	1,774	5,271
Non-manufacturing sites including the Head Offices and Research Laboratories	32	56

Notes: • Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.
• The boundary of calculation covers the same participating companies listed on page 3.

Environmental Activities: Supplementary Data

★: Assured by an independent assurance provider

2 Contribute to Recycling Resources, Sustainable Use of Natural Capital

Environmental Performance

Sumitomo Chemical collates and totals environmental data for the Company and Group companies in Japan and overseas, including data on energy and resource consumption, production quantities, and environmental impact (e.g., release of pollutants into the air and water).

■ FY2019–2021 Environmental Performance (Sumitomo Chemical and Group Companies in Japan)

INPUT Energy and Resources

Water

(Million tons)

	FY2019	FY2020	FY2021★
Industrial water	70.5	70.2	70.5
Drinking water	0.8	0.8	0.9
Seawater	924	884	862
Groundwater	25.3	26.8	25.5
Other water	2.2	2.6	2.7
Total*1	1,023	984	962

Energy
Calculated as kl of crude oil

(Thousand kl)

	FY2019	FY2020	FY2021★
Fuel, heat, and electricity*2	1,720	1,767	1,801

Exhaustible Resources

(Thousand tons)

	FY2019	FY2020	FY2021
Hydrocarbon compounds	1,829	1,704	1,713
Metals (excluding minor metals)*3	109	90.2	115
Minor metals*4	11.2	12.5	17.4

PCB/CFCs under Secure Storage

	FY2019	FY2020	FY2021
No. of electrical devices containing high concentrations of PCBs*5	13	11	0
PCB volume (pure equivalent) (kl)*5	0.1	0.1	0
No. of refrigeration units using specified CFCs as a coolant	32	37	27
No. of refrigeration units using HCFCs as a coolant	260	255	233

Note: The number of companies included in the boundary of calculation for the environmental performance data on page 141 is as follows for each year.
FY2019: Sumitomo Chemical and Group companies in Japan: 21 companies
FY2020: Sumitomo Chemical and Group companies in Japan: 22 companies
FY2021: Sumitomo Chemical and Group companies in Japan: 23 companies

*1 At Sumitomo Chemical Works, we determined that industrial water and seawater intake is not partially included, and we revised the figures for Sumitomo Chemical and the Sumitomo Chemical Group in fiscal 2019 and 2020.
*2 From fiscal 2017, the energy (calculated as kl of crude oil) indices were calculated in accordance with the GHG Protocol (refer to page 249 "Calculation Standards for Environmental and Social Data Indicators").
- Having adopted the GHG Protocol standards for our GHG emission disclosures, we now include the following data previously excluded from calculations: amount of energy used to produce power and steam sold to external parties by Sumitomo Chemical and Group companies in Japan (the portion attributable to energy provider subsidiaries was included in years prior to fiscal 2016). In addition, the amount of energy used by Sumitomo Chemical's non-production sites is included from fiscal 2017, and the amount of energy used by the Group companies in Japan non-production sites is included from fiscal 2018. From fiscal 2018, the boundary of calculation has been expanded to include principal consolidated Group companies in Japan, which account for up to 99.8% of consolidated net sales.

*3 Calculations include the following 12 metals: iron, gold, silver, copper, zinc, aluminum, lead, platinum, titanium, palladium, gallium, and lithium.
*4 Calculations include the following seven minor metals: nickel, chromium, tungsten, cobalt, molybdenum, manganese, and vanadium. The supply structure for each of these minor metals is extremely fragile. These minor metals are subject to national stockpiling.
*5 Fluorescent lamps and mercury lamp ballast as well as contaminated substances (wastepaper, etc.), including PCB waste, are not included in unit and volume data.

Environmental Activities: Supplementary Data

★: Assured by an independent assurance provider

OUTPUT Product Manufacturing and Environmental Impact

Products

(Thousand tons)

	FY2019	FY2020	FY2021★
(Calculated on the basis of ethylene production)*1	2,521	2,526	2,613

Water Pollutant Emissions

(Tons)

		FY2019	FY2020	FY2021★
COD	Coastal waters/waterways	887	874	960
	Sewer systems	197	168	207
Phosphorus	Coastal waters/waterways	30.5	34.7	36.1
	Sewer systems	4.7	4.9	5.9
Nitrogen	Coastal waters/waterways	1,457	1,281	1,303
	Sewer systems	53.3	48.1	68.6
Substances subject to the PRTR Act		8.0	11.7	11.1

Water Discharge

(Million tons)

	FY2019	FY2020	FY2021
Total amount of water discharge	980	947	920

Note: Includes seawater emissions of Sumitomo Joint Electric Power Co., Ltd.

Waste Materials

(Thousand tons)

	FY2019	FY2020	FY2021★
Waste emissions*2	232	248	276
Landfill*2	22	25.1	30.7
(Breakdown)			
On-site landfill	0	0	0
External landfill	22	25.1	30.7

Note: The number of companies included in the boundary of calculation for the environmental performance data on page 142 is as follows for each year.
FY2019: Sumitomo Chemical and Group companies in Japan: 21 companies
FY2020: Sumitomo Chemical and Group companies in Japan: 22 companies
FY2021: Sumitomo Chemical and Group companies in Japan: 23 companies

*1 Certain assumptions were made in calculations due to the difficulty of obtaining weight-based figures for some products.
*2 The amount of coal ash generated at Sumitomo Joint Electric Power, which is included in "Waste emissions" and "Landfill" (Sumitomo Chemical and Group companies in Japan) is calculated on a dry-weight basis.

Environmental Activities: Supplementary Data

★: Assured by an independent assurance provider

Atmospheric Emissions

(Thousand tons of CO_2e)

	FY2019	FY2020	FY2021★
Greenhouse gases (seven gases)*1	5,962	6,072	6,241
Emissions from energy use (CO_2)	5,209	5,312	5,435
CO_2 emissions from other than energy use	659	661	655
CH_4	—	—	6
N_2O	89	94	143
HFC	4	4	2
PFC	—	—	—
SF_6	—	—	—
NF_3	—	—	—

(Tons)

	FY2019	FY2020	FY2021★
Others			
NOx	4,208	4,359	3,901
SOx	4,621	4,584	3,896
Soot and dust	192	211	173
Substances subject to the PRTR Act*2	438	419	420

Note: The number of companies included in the boundary of calculation for the environmental performance data on page 143 is as follows for each year.
FY2019: Sumitomo Chemical and Group companies in Japan: 21 companies
FY2020: Sumitomo Chemical and Group companies in Japan: 22 companies
FY2021: Sumitomo Chemical and Group companies in Japan: 23 companies

*1 From fiscal 2017, the greenhouse gas (all seven gases) indices were calculated using the GHG Protocol for greenhouse gas emissions (refer to page 249 "Calculation Standards for Environmental and Social Data Indicators") for principal consolidated Group companies in Japan, which account for up to 99.8% of consolidated net sales.
- Having adopted the GHG Protocol standards for our GHG emission disclosures, we now include the following data that was previously excluded from calculations: CO_2 emissions from energy sold to external parties by Sumitomo Chemical and Group companies in Japan (the portion attributable to energy provider subsidiaries was included in years prior to fiscal 2016); CO_2 emissions from energy use attributable to Sumitomo Chemical's non-production sites; and CO_2 emissions from non-energy sources not included in the scope of the Act on Promotion of Global Warming Countermeasures. In addition, from fiscal 2018, we include energy use attributable to the Group companies in Japan non-production sites.

*2 Calculated based on the amount released into water/the air of each substance subject to the PRTR Act.

Compliance with Environmental Laws and Regulations

(Yen)

	FY2019	FY2020	FY2021
Total fines	0	0	0

Note: **Sumitomo Chemical and Group companies in Japan are included in the boundary of calculation.**
[The production sites of the 23 Group companies in the boundary are listed below]
Sumika-Kakoushi Co., Ltd.; Sumika Color Co., Ltd.; Sumika Plastech Co., Ltd.; Nippon A&L Inc.; Asahi Chemical Co., Ltd.; Ceratec Co., Ltd.; Sumika Assembly Techno Co., Ltd.; SanTerra Co., Ltd.; Sumika Agro Manufacturing Co., Ltd.; SC Environmental Science Co., Ltd.; Sumika Agrotech Co., Ltd.; Sumika Polycarbonate Ltd.; Nihon Medi-Physics Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.; Koei Chemical Co., Ltd.; Taoka Chemical Co., Ltd.; Tanaka Chemical Corporation; SCIOCS COMPANY LIMITED; Sumitomo Pharma Co., Ltd.; SN Kasei Co., Ltd.; Sanritz Corporation; and Sumika High-Purity Gas Co., Ltd.; Sumika Kowa Tech Co., Ltd.

Environmental Activities: Supplementary Data

Evaluation of Environmental Protection Costs and Economic Effects through Environmental Accounting

Sumitomo Chemical continuously gathers and evaluates data on environmental protection-related expenses, investments, and economic results in line with the Company's environmental accounting system introduced in fiscal 2000.

◆ Items Pertaining to Environmental Accounting

(1) Period: April 1, 2021 to March 31, 2022
(2) Boundary: Sumitomo Chemical and 21 major consolidated subsidiaries (16 in Japan and 5 overseas)*
(3) Composition (Classification): Based on Ministry of the Environment (Japan) guidelines
(4) Outline of the results (investment and expenses): Consolidated investment decreased year on year by 0.8 billion yen, and consolidated expenses increased by 1.6 billion yen.

* Sumitomo Pharma Co., Ltd.; Koei Chemical Co., Ltd.; Taoka Chemical Co., Ltd.; Asahi Chemical Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.; Sumika Color Co., Ltd.; Nihon Medi-Physics Co., Ltd.; Nippon A&L Inc.; SanTerra Co., Ltd.; Sumika-Kakoushi Co., Ltd.; Sumika Agrotech Co, Ltd.; Ceratec Co., Ltd.; SC Environmental Science Co., Ltd.; SN Kasei Co., Ltd.; Sumika Agro Manufacturing Co., Ltd.; Sumika Plastech Co., Ltd.; Dongwoo Fine-Chem Co., Ltd.; Sumitomo Chemical Asia Pte Ltd.; The Polyolefin Company (Singapore) Pte. Ltd.; Sumika Technology Co., Ltd.; and Sumika Electronic Materials (Wuxi) Co., Ltd.

■ Environmental Protection Cost

(Billion yen)

Classification		Details of Major Initiatives	FY2020				FY2021			
			Non-Consolidated		Consolidated		Non-Consolidated		Consolidated	
			Investment	Expenses	Investment	Expenses	Investment	Expenses	Investment	Expenses
Facility Area Costs			1.0	19.2	3.2	31.2	1.0	20.1	2.5	32.7
Breakdown	Pollution Prevention Costs	Prevention of air pollution, water pollution, soil contamination, noise pollution, odors, ground subsidence, etc. (pages 146–147)	(0.6)	(13.8)	(2.3)	(18.1)	(0.7)	(14.4)	(1.7)	(19.3)
Breakdown	Global Environmental Protection Costs	Energy saving, prevention of global warming, ozone layer depletion, and other measures (pages 140, 149)	(0)	(0.2)	(0.4)	(4.1)	(0)	(0.1)	(0.3)	(3.9)
Breakdown	Resource Recycling Costs	Resource saving, water saving and rainwater usage, waste reduction/disposal treatment, recycling, etc. (pages 122, 153)	(0.4)	(5.2)	(0.5)	(9.0)	(0.3)	(5.6)	(0.5)	(9.5)
Upstream/ Downstream Costs		Green purchasing, recycling, recovery, remanufacturing and appropriate treatment of products, recycling costs associated with containers and packaging, environmentally friendly products and services, etc.	0	0	0	0.4	0	0	0	0.5
Administrative Costs		Costs associated with environmental education, environmental management systems, the monitoring and measuring of the environmental impact of business activities and products, environmental organization operations, etc. (page 159)	0	0.8	0	1.5	0	0.8	0	1.5
R&D Costs		Development of products with attention to environmental safety, research into energy-saving processes, etc. (pages 32–37)	0.1	8.1	0.1	8.2	0	8.0	0	8.2
Social Activities Costs		Protection of the natural environment and enhancement of its scenic beauty and greenery, support for community initiatives aimed at environmental protection, support for environmental preservation groups, environment-related paid contributions and surcharges, etc.	0	0.6	0	0.8	0	0.5	0	0.8
Environmental Remediation Costs		Environmental rehabilitation of contaminated environments and other environmental damage, reserve funds to cover environmental recovery, etc.	0	0	0	0	0	0	0	0
Total			1.1	28.7	3.3	42.1	1.0	29.4	2.5	43.7

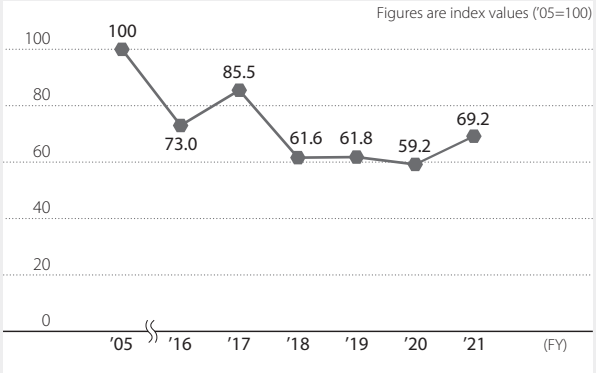
Environmental Activities: Supplementary Data

Economic Effects

(Billion yen)

Results	FY2020		FY2021	
	Non-Consolidated	Consolidated	Non-Consolidated	Consolidated
Reduced costs through energy saving	0.2	0.3	0.4	0.5
Reduced costs through resource saving	0.4	0.6	0.7	0.9
Reduced costs through recycling activities	2.4	2.6	4.1	4.5
Total	3.0	3.5	5.2	5.9

Cost Efficiency of Environmental Protection Measures (Sumitomo Chemical (All Worksites))



In fiscal 2005, we began implementing measures to improve the cost efficiency of our environmental protection measures by making sure that all activities were as cost effective as possible. We will implement more effective measures by analyzing and studying the breakdown of our environmental protection costs and reviewing each item to determine its importance. We calculate the cost efficiency of our environmental protection as the ratio of annual total production value to total environmental protection costs, in order to better reflect actual production activities in the calculation.

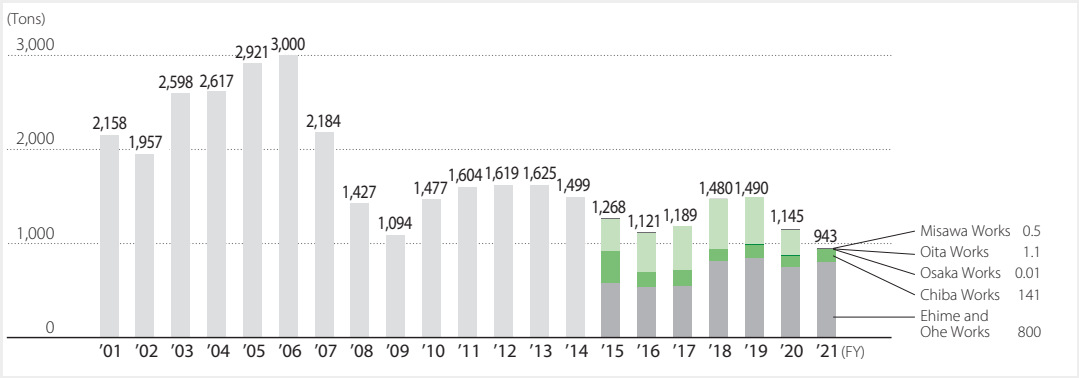
Environmental Activities: Supplementary Data

Preventing Pollution: Atmospheric Emissions of SOx, NOx, Soot, and Dust

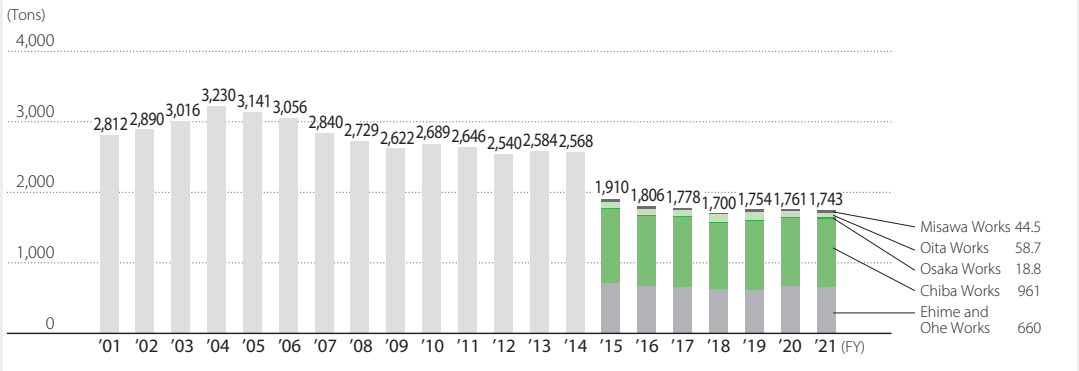
In 1970, Sumitomo Chemical achieved a marked reduction in the release of SOx, NOx, soot, and dust into the atmosphere, and continued to maintain low levels of emissions from 1980 to the present. Furthermore, the Company has concluded cooperative agreements with local municipal governments at each of its Works, establishing voluntary control levels that are stricter than the standards given under applicable laws and regulations.

Note: Data for the Gifu Plant and Okayama Plant from fiscal 2004 to fiscal 2012 is included in Osaka Works.
Data for the Gifu Plant and Okayama Plant from fiscal 2013 is included in Oita Works.

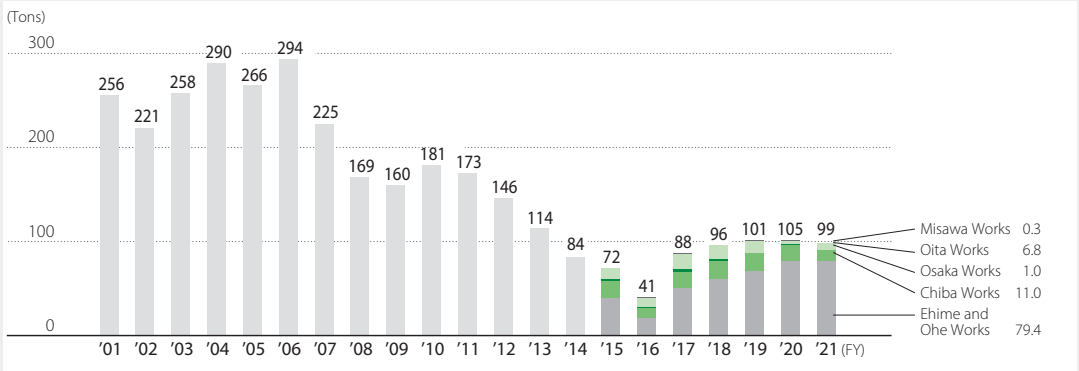
SOx Emissions (Sumitomo Chemical)



NOx Emissions (Sumitomo Chemical)



Soot and Dust Emissions (Sumitomo Chemical)



Target	Continue to sustain levels below voluntary control standard values.

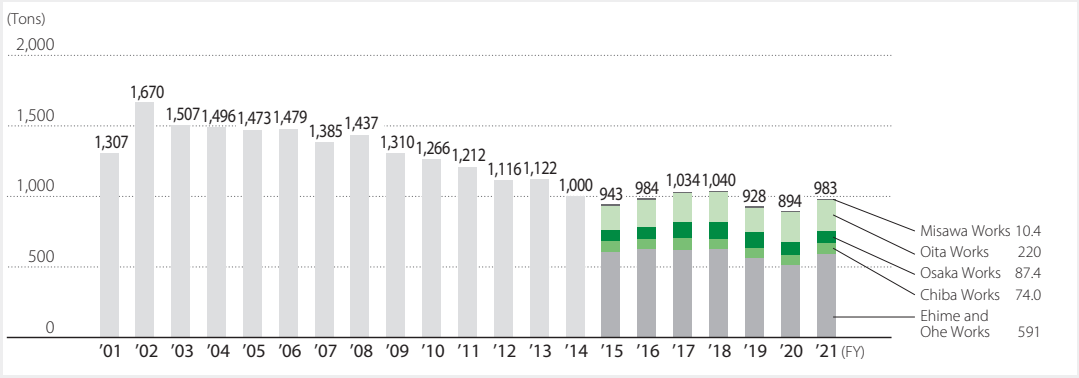
Environmental Activities: Supplementary Data

Water Emissions of COD, Nitrogen, and Phosphorus

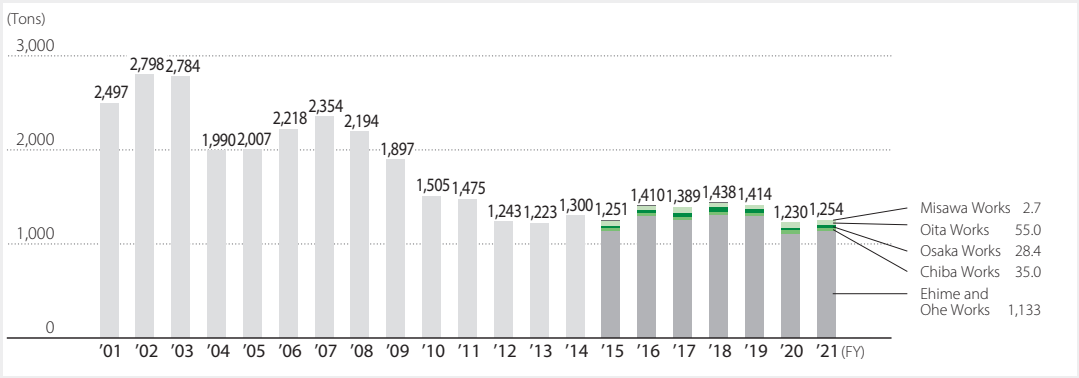
A number of measures have been implemented to cut emissions, in line with fifth-generation Water Quality Standards, and emissions of COD, nitrogen, and phosphorus into waterways have been significantly reduced since fiscal 2004. Sumitomo Chemical has also concluded cooperative agreements with local municipal governments to establish voluntary control levels for COD, nitrogen, and phosphorus released into waterways at each Works. These standards are also stricter than those established under applicable laws and regulations.

Note: Data for the Gifu Plant and Okayama Plant from fiscal 2004 to fiscal 2012 is included in Osaka Works.
Data for the Gifu Plant and Okayama Plant from fiscal 2013 is included in Oita Works.

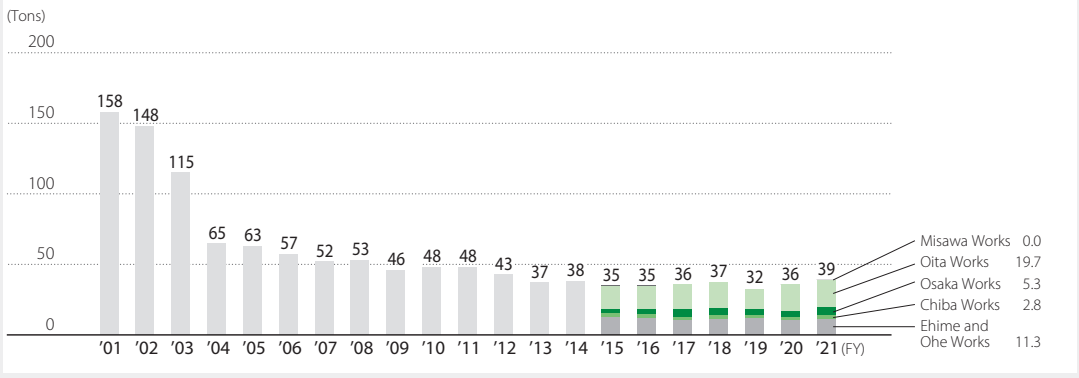
COD Emissions (water emissions include water discharge to sewage systems) (Sumitomo Chemical)



Nitrogen Emissions (Sumitomo Chemical)



Phosphorus Emissions (Sumitomo Chemical)



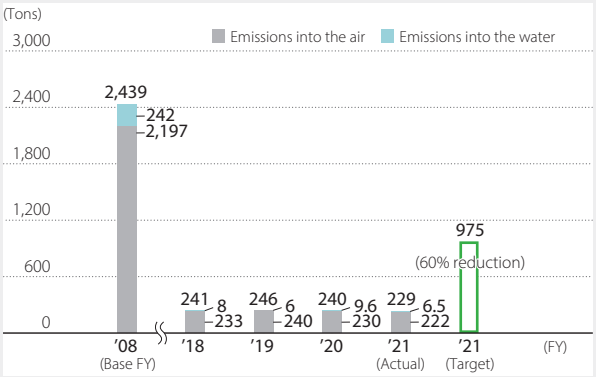
Target	Continue to sustain levels below voluntary control standard values.

Environmental Activities: Supplementary Data

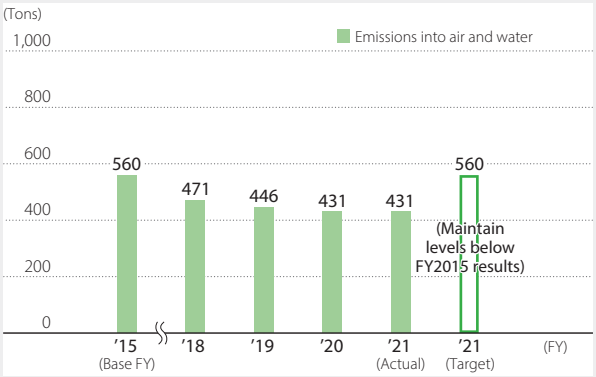
Addressing PRTR and VOCs

Trends in Emissions of Substances Subject to the PRTR Act

Sumitomo Chemical



Sumitomo Chemical and Group Companies in Japan

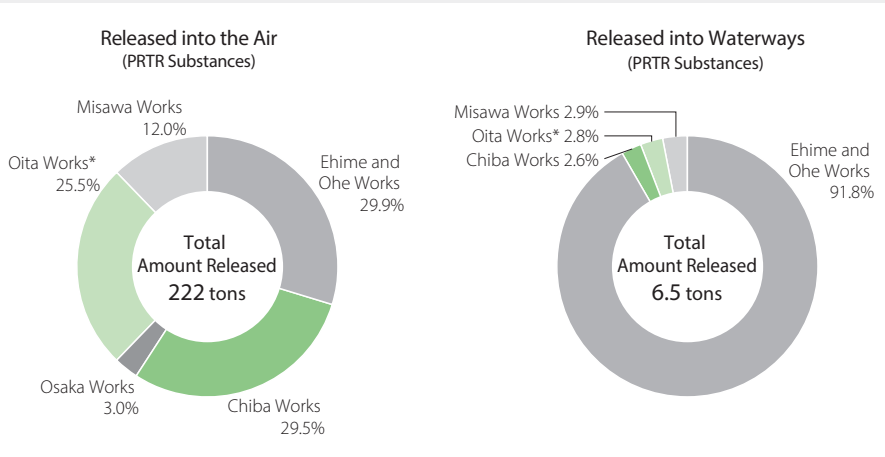


FY2021 Release and Transfer of PRTR Substances (Sumitomo Chemical and Group Companies in Japan)

(Tons)

	Released			Transferred		
	Air	Water	Subtotal	Sewage	Waste	Subtotal
PRTR substances						
Sumitomo Chemical (130 substances)	222	6.5	229	4.4	5,128	5,132
Sumitomo Chemical and Group companies in Japan	420	11.1	431	8.2	7,753	7,761

FY2021 PRTR Substances Released by Works (Sumitomo Chemical)

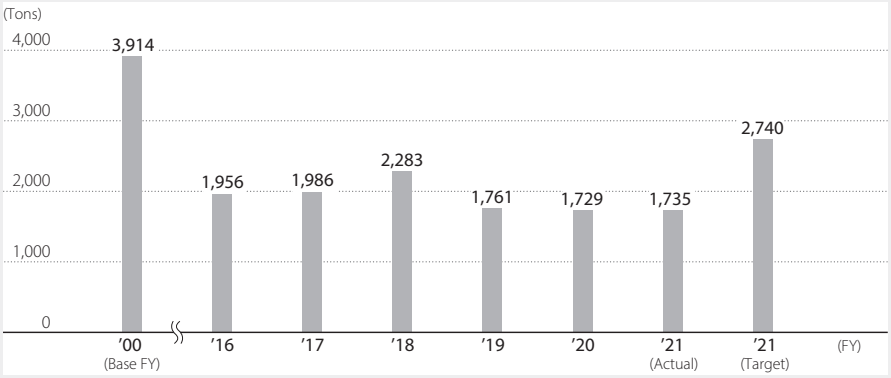


* Data for the Oita Works includes data for the Gifu and Okayama plants.

Target	Reduce the total release of PRTR substances by 60% compared with fiscal 2008 by fiscal 2021
Results	Reduced the total release of PRTR substances to 229 tons, by 90.6%, compared with fiscal 2008 by fiscal 2021, achieving the target.

Environmental Activities: Supplementary Data

Initiatives to Reduce Emissions of Volatile Organic Compounds (VOCs) (Sumitomo Chemical)



Target	Maintain a 30% reduction in VOC emissions compared with fiscal 2000.
Results	Reduced emissions by 1,735 tons, or 55.7%, compared with fiscal 2000 by fiscal 2021, achieving the target.

Prevention of Ozone Layer Depletion

Number of Refrigeration Units That Use Specified CFCs and HCFCs as Coolants (Sumitomo Chemical and Group Companies in Japan) as of the End of Fiscal 2021

(Number of units)

	Sumitomo Chemical	Sumitomo Chemical and Group Companies in Japan
CFC11	6	6
CFC12	3	18
CFC13	0	1
CFC115	2	2
HCFC22	72	200
HCFC123	26	33

Target	• Eliminate the use of refrigeration units that use specified CFCs as coolants by fiscal 2025. • Eliminate the use of refrigeration units that use HCFCs as coolants by fiscal 2045.

Environmental Activities: Supplementary Data

Response to the Pollutant Release and Transfer Register Ordinance(Issued on November 21, 2008)

(Tons, Dioxins: mg-TEQ)

No.	Name of Chemical Compound	Amount Released					Amount Transferred		
		Air	Water	Soil	Landfill	Total	Sewage	Waste	Total
1	Zinc compounds (water-soluble)	0.0	3.3	0.0	0.0	3.3	<0.1	126.5	126.5
2	Ethyl acrylate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Acrylic acid and its water-soluble salts	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
4	Methyl acrylate	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
5	Acrylonitrile	5.1	0.0	0.0	0.0	5.1	0.0	18.8	18.8
6	Acrolein	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
7	Sodium azide	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
8	Acetaldehyde	<0.1	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
9	Acetonitrile	2.2	0.0	0.0	0.0	2.2	0.0	32.7	32.7
10	Aniline	0.7	0.0	0.0	0.0	0.7	0.0	28.8	28.8
11	2-Aminoethanol	<0.1	0.1	0.0	0.0	0.1	0.0	32.4	32.4
12	5-amino-1-[2,6-dichloro-4-(trifluoromethyl) phenyl]-3-cyano -4-[(trifluoromethyl) sulfinyl]pyrazole (also known as fipronil)	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
13	m-Aminophenol	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
14	Allyl alcohol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
15	Antimony and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
16	Isobutyraldehyde	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0
17	Ethanethiol	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	O-ethylO-6-nitro-meta-tolyl-sec-butylphosphoramidothioate (also known as Butamifos)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	O-ethylO-4-nitrophenyl phenylphosphonothioate (also known as EPN)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	2-Ethylhexanoic acid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	Ethylbenzene	6.3	<0.1	0.0	0.0	6.4	<0.1	24.8	24.8
22	Epichlorohydrin	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0
23	1,2-Epoxypropane (also known as propylene oxide)	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
24	Cadmium and its compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
25	ε -Caprolactam	0.2	1.2	0.0	0.0	1.4	0.0	0.0	0.0
26	Xylene	4.8	<0.1	0.0	0.0	4.9	<0.1	28.2	28.3
27	Quinoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	Cumene	23.7	<0.1	0.0	0.0	23.7	0.0	0.0	0.0
29	Cresol	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
30	Chromium and chromium(III) compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	Chromium(VI) compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
32	Chloroacetic acid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	Chlorodifluoromethane (also known as HCFC-22)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	2-chloro-4,6-bis (ethylamino)-1,3,5-triazine (also known as simazine or CAT)	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
35	3-Chloropropene (also known as allyl chloride)	1.7	0.0	0.0	0.0	1.7	0.0	17.8	17.8
36	Chlorobenzene	3.2	<0.1	0.0	0.0	3.2	0.0	187.8	187.8
37	Chloroform	0.5	0.0	0.0	0.0	0.5	0.0	318.7	318.7
38	Cobalt and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
39	Vinyl acetate	22.3	<0.1	0.0	0.0	22.3	0.0	0.0	0.0
40	Salicyl aldehyde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	(RS)-α-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate (also known as fenpropathrin)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	Inorganic cyanide compounds (excluding complex salts and cyanates)	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
43	S-4-chlorobenzyl N,N-diethylthiocarbamate (also known as thiobencarb or benthiocarb)	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1

Environmental Activities: Supplementary Data

(Tons, Dioxins: mg-TEQ)

No.	Name of Chemical Compound	Amount Released					Amount Transferred		
		Air	Water	Soil	Landfill	Total	Sewage	Waste	Total
44	Tetrachloromethane	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
45	1,4-Dioxane	<0.1	0.0	0.0	0.0	<0.1	<0.1	148.2	148.3
46	cyclohexa-1-en-1,2-dicarboxyimidemethyl (1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl) cyclopropanecarboxylate (also known as Tetramethrin)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	Cyclohexylamine	0.0	<0.1	0.0	0.0	<0.1	0.0	3.4	3.4
48	1,2-dichloroethane	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
49	1,1-Dichloroethylene (also known as vinylidene chloride)	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
50	Cis-1,2-dichloroethylene	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
51	Dichlorodifluoromethane (also known as CFC-12)	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
52	2,2-Dichloro-1,1,1- trifluoroethane (also known as HCFC-123)	1.4	0.0	0.0	0.0	1.4	0.0	0.0	0.0
53	1,2-Dichloropropane	0.0	0.0	0.0	0.0	0.0	0.0	426.0	426.0
54	1,3-Dichloropropene (also known as D-D)	0.5	0.0	0.0	0.0	0.5	<0.1	71.0	71.0
55	Dichlorobenzene	<0.1	0.0	0.0	0.0	<0.1	0.0	129.1	129.1
56	Dichloromethane (also known as methylene chloride)	3.2	0.0	0.0	0.0	3.2	0.0	12.8	12.8
57	Dicyclopentadiene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	O,O-dimethyl S-(N-methylcarbamoyl)methyl phosphorothioate (also known as dimethoate)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	2,4-Dinitrophenol	0.0	0.0	0.0	0.0	0.0	0.0	43.4	43.4
60	1,3-Diphenylguanidine	0.0	0.4	0.0	0.0	0.4	0.0	17.2	17.2
61	2,6-Di-tert-butyl-4-cresol (also known as BHT)	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
62	2,4-Di-tert-butylphenol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
63	N,N-Dimethylacetamide	<0.1	<0.1	0.0	0.0	<0.1	0.0	7.4	7.4
64	2,4-dimethylaniline	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65	N,N-Dimethylaniline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	Dimethylamine	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0
67	N,N-Dimethylformamide	0.2	0.0	0.0	0.0	0.2	0.0	253.7	253.7
68	Mercury and its compounds	<0.1	0.0	0.0	0.0	<0.1	<0.1	0.0	<0.1
69	Styrene	2.3	0.0	0.0	0.0	2.3	0.0	0.1	0.1
70	Selenium and its compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
71	Dioxins	1.3	5.7	0.0	0.0	7.0	0.5	0.5	1.0
72	Thiourea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	O,O-dimethyl O-3-methyl-4-nitrophenyl phosphorothioate (also known as fenitrothion or MEP)	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
74	Decyl alcohol (also known as Decanol)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
76	Tetramethylthiuram disulfide (also known as thiuram or thiram)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	Terephthalic acid	0.0	0.0	0.0	0.0	0.0	0.0	397.5	397.5
78	Water-soluble copper salts (excluding complex salts)	0.0	<0.1	0.0	0.0	<0.1	<0.1	0.0	<0.1
79	Sodium dodecyl sulfate	0.0	0.2	0.0	0.0	0.2	0.0	1.3	1.3
80	Triethylamine	0.7	0.3	0.0	0.0	1.0	0.6	115.2	115.8
81	1,1,1-trichloroethane	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
82	1,1,2-trichloroethane	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
83	Trichloroethylene	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
84	2,4,6-Trichloro-1,3,5-triazine	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0
85	1,2,3-Trichloropropane	<0.1	0.0	0.0	0.0	<0.1	0.0	20.1	20.1
86	1,2,4-Trimethylbenzene	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0
87	Toluidine	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4
88	Toluene	106.1	0.2	0.0	0.0	106.3	0.3	2,263.7	2,264.0
89	Naphthalene	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
90	Lead compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1

Environmental Activities: Supplementary Data

(Tons, Dioxins: mg-TEQ)

No.	Name of Chemical Compound	Amount Released					Amount Transferred		
		Air	Water	Soil	Landfill	Total	Sewage	Waste	Total
91	Nickel compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
92	Nitrobenzene	0.6	0.0	0.0	0.0	0.6	0.0	50.8	50.8
93	Vanadium compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	Arsenic and its inorganic compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
95	Hydrazine	<0.1	<0.1	0.0	0.0	<0.1	0.0	35.1	35.1
96	Hydroquinone	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
97	4-Vinyl-1-cyclohexene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	Biphenyl	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99	Pyridine	0.0	<0.1	0.0	0.0	<0.1	0.0	0.5	0.5
100	Phenylenediamine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101	1,3-Butadiene	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.4
102	Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0	0.0	7.7	7.7
103	tert-Butyl hydroperoxide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104	2-tert-Butyl-5-methylphenol	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
105	Hydrogen fluoride and its water-soluble salts	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
106	2-Propyn-1-ol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
107	2-Bromopropane	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5
108	Hexadecyltrimethylammonium chloride	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
109	n-Hexane	19.4	<0.1	0.0	0.0	19.5	0.0	246.8	246.8
110	Water-soluble salts of peroxydisulfuric acid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111	Benzyl chloride (also known as benzyl chloride)	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
112	Benzaldehyde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	Benzene	0.3	0.1	0.0	0.0	0.4	<0.1	0.0	<0.1
114	Boron compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
115	Polychlorinated biphenyls (also known as PCBs)	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
116	Poly (oxyethylene) alkyl ether (alkyl C=12–15 and its mixture)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117	Formaldehyde	0.2	<0.1	0.0	0.0	0.3	3.0	0.0	3.0
118	Manganese and its compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
119	Phthalic anhydride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	Maleic anhydride	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
121	Methacrylic acid	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
122	2,3-Epoxypropyl methacrylate	2.1	0.0	0.0	0.0	2.1	0.0	0.0	0.0
123	Methyl methacrylate	8.2	0.0	0.0	0.0	8.2	0.0	38.2	38.2
124	(Z)-2'-Methylacetophenone= 4,6-dimethyl-2-pyrimidinyl hydrazone (also known as Ferimzone)	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
125	Methylamine	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
126	3-Methylthiopropanal	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
127	Methylnaphthalene	2.6	0.0	0.0	0.0	2.6	0.0	0.0	0.0
128	Molybdenum and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
129	Morpholine	0.0	<0.1	0.0	0.0	<0.1	0.0	1.7	1.7
130	Triphenyl phosphate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total		222	6.5	0.0	0.0	229	4.4	5,128	5,132

Environmental Activities: Supplementary Data

Industrial Waste Reduction

PCB Waste (Sumitomo Chemical and Group Companies in Japan)

Storage and Control of High Concentrations of PCB Waste as of the End of Fiscal 2021

	Number of units of PCB waste			Volume of PCBs (kl)
	Total	Storage	Usage	
Sumitomo Chemical	0	0	0	0
Sumitomo Chemical and Group Companies in Japan	0	0	0	0

Note: The volume of PCBs does not include minute amounts of PCB waste in the PCB net conversion amount. High concentrations of PCBs in such classes of materials as fluorescent lamps, mercury lamp ballast, and contaminated substances (wastepaper, etc.) fall outside the scope of collation.

Target

Properly collect and store high-concentration PCB-containing waste and complete treatment of this waste at an early date.

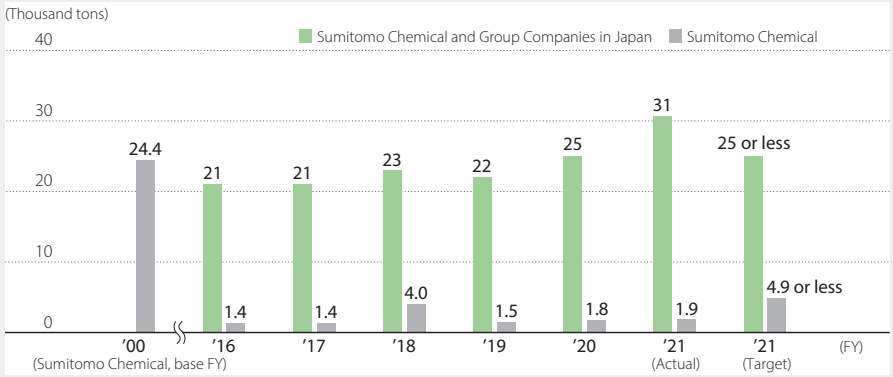
Results

Sumitomo Chemical: As of March 31, 2021, the treatment of all high-concentration PCB-containing waste that had been stored and used has been completed.
Group companies in Japan: As of March 31, 2022, the treatment of all high-concentration PCB-containing waste that had been stored and used has been completed.

In accordance with the Act on Special Measures against PCB Waste, Sumitomo Chemical properly collects high-concentration polychlorinated biphenyl (PCB)-containing waste.* The Company then stores this industrial waste, which is subject to special controls, in specified areas within the Company's waste storage facilities, subsequently ensuring strict control of this waste. Sumitomo Chemical completed treatment of all of its PCB-containing waste ahead of the legally prescribed deadline.

* Transformers, capacitors, and other electronic devices that contain PCB insulating oil.

Landfill Disposal Amount (Sumitomo Chemical and Group Companies in Japan)



Target

Sumitomo Chemical: Maintain landfill disposal amount of no more than 4.9 thousand tons, 80% less than the fiscal 2000 levels.
Sumitomo Chemical and Group Companies in Japan: Maintain landfill disposal amount of no more than 25 thousand tons, less than the fiscal 2020 levels.

Results

Sumitomo Chemical: Achieved the target
Sumitomo Chemical and Group Companies in Japan: Failed to achieve the target.

Environmental Activities: Supplementary Data

Digitization of Manifests to Be Prepared Pursuant to the Waste Management and Public Cleansing Act (Sumitomo Chemical)

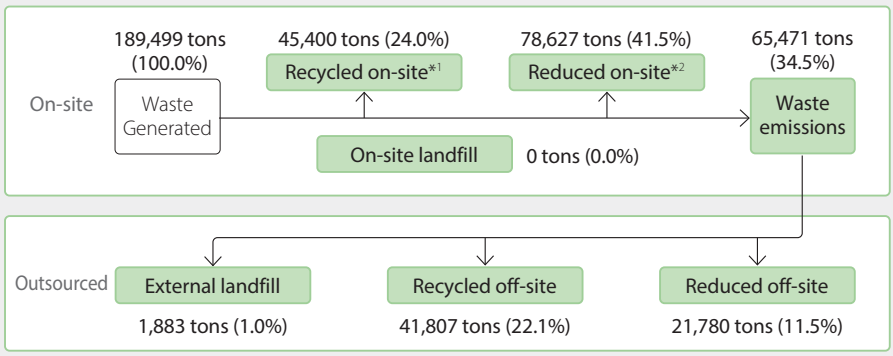
	Number of manifests issued	Number of manifests digitized	Digitization rate (%)
FY2014	18,662	14,930	80
FY2015	18,973	16,337	86
FY2016	19,868	19,594	99
FY2017	19,858	19,585	99
FY2018	20,598	20,355	99
FY2019	19,835	19,726	99
FY2020	20,735	20,675	99
FY2021	23,027	22,961	99

Sumitomo Chemical has been fostering the digitization of manifests to improve operational efficiency and ensure compliance with the law and transparency of data.

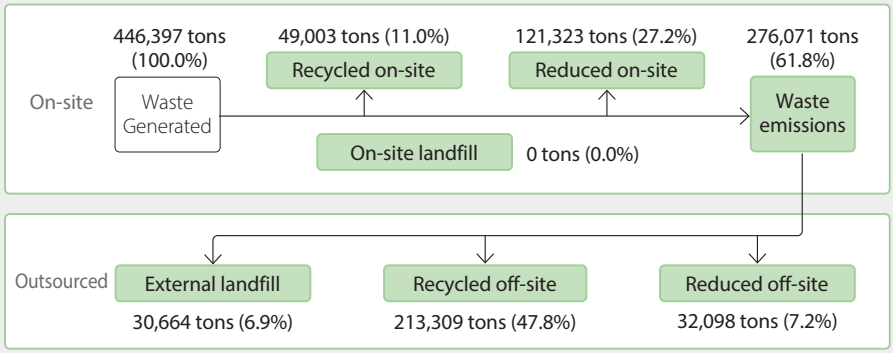
Environmental Activities: Supplementary Data

Waste Disposal Flow Chart and FY2021 Results

(Sumitomo Chemical)



(Sumitomo Chemical and Group Companies in Japan)



Note: The waste amount for Sumitomo Chemical and Group companies in Japan accounts for around 80% of the entire Group total, which includes overseas Group companies.

*1 Recycled waste: Total amount of waste that was reused, recycled, or thermally recycled

*2 Reduced waste: Total amount of waste reduced through incineration, etc.

List of FY2021 Results by Item in connection with the Disposal of Waste (Sumitomo Chemical)

(Tons)

Type	Waste Generated	Recycled on-site		Reduced on-site		Waste emissions	On-site landfill	Reduced off-site	Recycled off-site		External landfill
		Reused, recycled	Thermally recycled	Incineration	Other				Reused, recycled	Thermally recycled	
Burnt residue	5,607.5					5,607.5			5,267.4		340.1
Sludge	60,866.8	0.1	16,638.9	20,772.3	3,229.3	20,226.3		4,948.9	14,114.6	753.6	409.3
Oil waste	45,249.1	3,964.8	11,660.4	12,652.5		16,971.4		7,225.9	8,202.7	1,434.8	108.2
Waste acid	8,488.2		8.7	5,923.8	997.3	1,558.4		1,233.6	282.3		42.6
Waste alkali	59,151.1	12,637.3	31.7	33,388.1		13,094.1		6,905.5	5,347.3	703.7	137.6
Waste plastic	5,933.0		437.4	707.4		4,788.3		598.7	3,472.8	110.4	606.4
Waste paper	1,018.5		20.9	859.1		138.5		23.7	114.6		0.1
Wood waste	886.0			92.3		793.7		58.2	545.9	177.0	12.6
Textile waste	13.9					13.9		11.8	1.5		0.6
Animal and plant residues	15.5					15.5		15.5			
Metal waste	1,121.3			5.5		1,115.8		148.2	955.4	0.8	11.8
Glass and pottery waste	375.9					375.9		25.5	279.3	42.7	27.7
Slag											
Debris	729.4					729.4		582.0			147.4
Soot and dust	41.5					41.5		2.3			39.2
Total	189,498.6	16,602.2	28,798.0	74,400.8	4,226.6	65,471.1	0.0	21,779.6	38,583.7	3,223.0	1,883.5

Environmental Activities: Supplementary Data

FY2021 Categories of Hazardous* and Non-Hazardous Waste (Sumitomo Chemical and Group Companies in Japan)

(Tons)

Type	Waste Generated	Recycled on-site		Reduced on-site		Waste emissions	On-site landfill	Reduced off-site	Recycled off-site		External landfill
		Reused, recycled	Thermally recycled	Incineration	Other				Reused, recycled	Thermally recycled	
Non-Hazardous Waste	306,049	0	17,097	22,436	40,113	226,403	0	11,707	182,988	1,862	29,801
Hazardous Waste	144,188	16,630	15,276	62,193	997	49,092	0	20,121	23,097	5,309	546

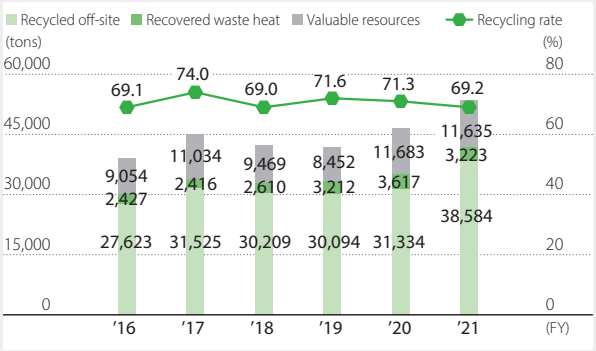
* Waste oil (including waste organic solvents), alkaline waste, acidic waste

Initiatives to Recycle and Reuse Plastic and Other Waste

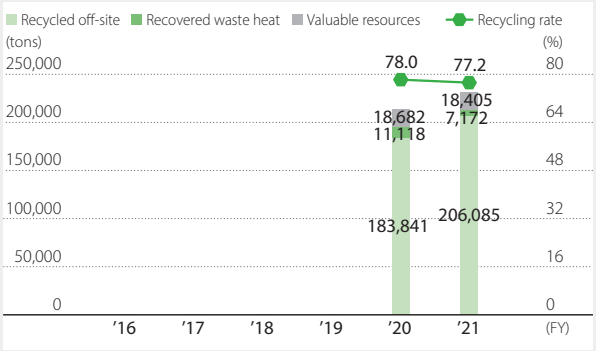
Sumitomo Chemical is proactively working to recycle and reuse plastic and other waste.

Results of Recycling and Reusing Waste (including valuable resources and recovered waste heat)*1

Sumitomo Chemical

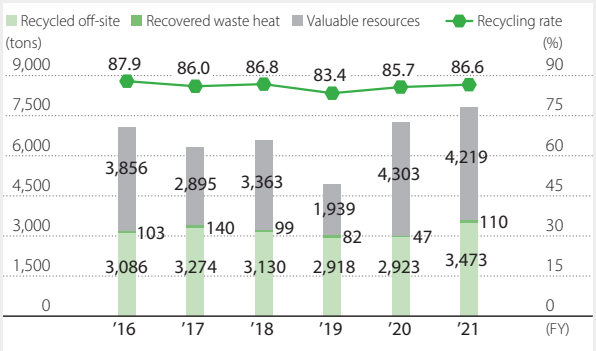


Sumitomo Chemical and Group Companies in Japan

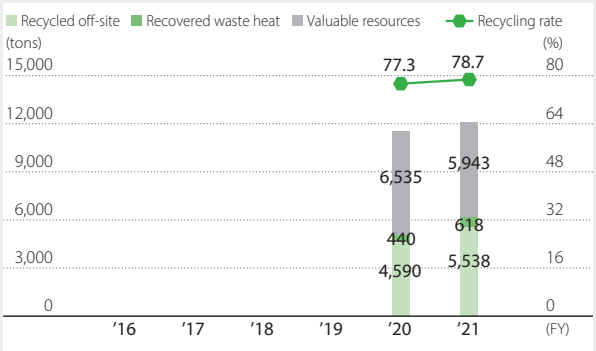


Results of Recycling and Reusing Plastic Waste (including valuable resources and recovered waste heat)*2

Sumitomo Chemical



Sumitomo Chemical and Group Companies in Japan



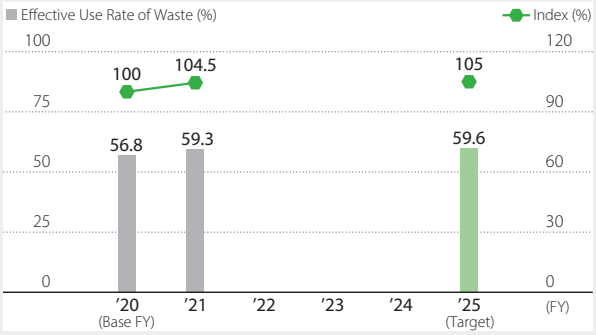
*1 Amount of recycled and reused waste (including valuable resources and recovered waste heat) = amount of externally recycled and reused waste + amount of externally recovered waste heat + amount of valuable resources
Percentage of recycled and reused waste (including valuable resources and recovered waste heat) = (amount of externally recycled and reused waste + amount of externally recovered waste heat + amount of valuable resources)/(amount of emitted waste + amount of valuable resources)

*2 Amount of recycled and reused plastic waste (including valuable resources and recovered waste heat) = amount of externally recycled and reused waste + amount of externally recovered waste heat + amount of valuable resources
Percentage of recycled and reused plastic waste (including valuable resources and recovered waste heat) = (amount of externally recycled and reused waste + amount of externally recovered waste heat + amount of valuable resources)/(amount of emitted waste + amount of valuable resources)

Environmental Activities: Supplementary Data

Sharing Environmental Protection and Management Targets (Japan)

Effective Use Rate of Waste*1 (2020 = 100)

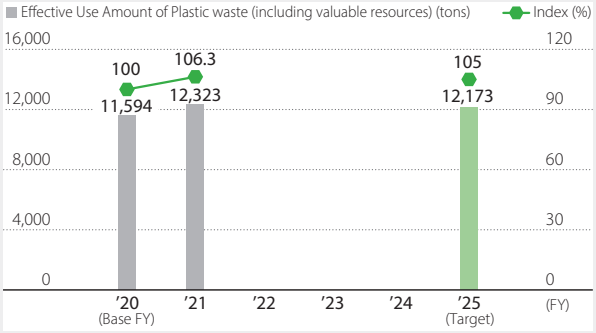


Improve the effective use rate of waste

Target	Improve by 5% or more relative to fiscal 2020 by fiscal 2025
Results	Improved by 4.5% relative to fiscal 2020 in fiscal 2021, achieving the target

*1 Effective use rate of waste = {(amount of internally recycled and reused waste + amount of internally recovered waste heat) + (amount of externally recycled and reused waste + amount of externally recovered waste heat)}/amount of waste generated × 100

Effective Use Amount of Plastic waste (including valuable resources)*2 (2020 = 100)

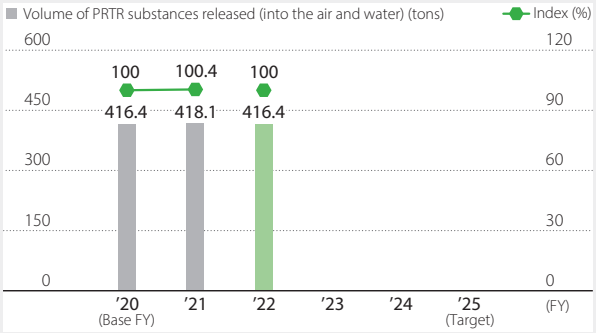


Improve the effective use amount of plastic waste

Target	Improve by 5% or more relative to fiscal 2020 by fiscal 2025
Results	Improved by 6.3% relative to fiscal 2020 in fiscal 2021, achieving the target

*2 Effective use amount of plastic waste (including valuable resources) = (amount of valuable resources) + (amount of internally recycled and reused waste + amount of internally recovered waste heat) + (amount of externally recycled and reused waste + amount of externally recovered waste heat)

Volume of PRTR Substances Released (into the Air and Water) and PRTR Substance Emissions Indices (2020 = 100)

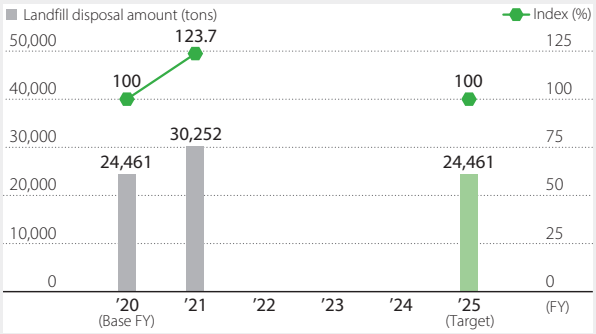


Reduction of Volume of PRTR Substances Released

Target	Maintain emissions at or below the fiscal 2020 (target fiscal year: fiscal 2022)*3
Results	Increased by 0.4% relative to fiscal 2020 in fiscal 2021, failing to achieve the target.

*3 The new target will be set after the PRTR Act is amended in fiscal 2023.

Landfill Disposal Amount and Landfill Disposal Indices (2020 = 100)



Reduction of landfill disposal amount

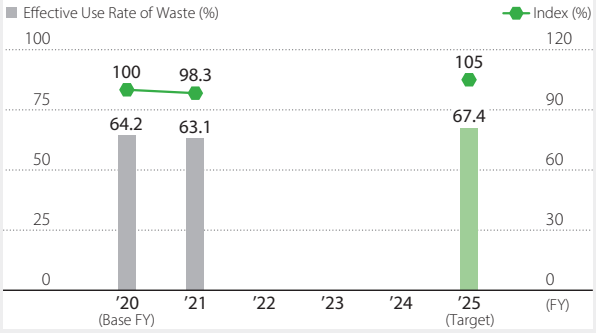
Target	Maintain landfill disposal amount at or below fiscal 2020 levels.
Results	The amount in fiscal 2021 was increased by 23.7% compared with fiscal 2020, failing to achieve the target.

Note: **Sumitomo Chemical and the 18 Group companies in Japan listed below are included in the boundary of calculation.**
Sumika-Kakoushi Co., Ltd.; Sumika Color Co., Ltd.; Sumika Plastech Co., Ltd.; Nippon A&L Inc.; Asahi Chemical Co., Ltd.; Ceratec Co., Ltd.; SanTerra Co., Ltd.; Sumika Agro Manufacturing Co., Ltd.; Sumika Assembly Techno Co., Ltd.; SC Environmental Science Co., Ltd.; Sumika Agrotech Co., Ltd.; Nihon Medi-Physics Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.; SN Kasei Co., Ltd.; Sumika Polycarbonate Limited; SANRITZ CORPORATION; SCIOCS COMPANY LIMITED; Sumika Kowa Tech Co., Ltd.

Environmental Activities: Supplementary Data

Sharing Environmental Protection and Management Targets (Overseas)

Effective Use Rate of Waste*1 (2020 = 100)

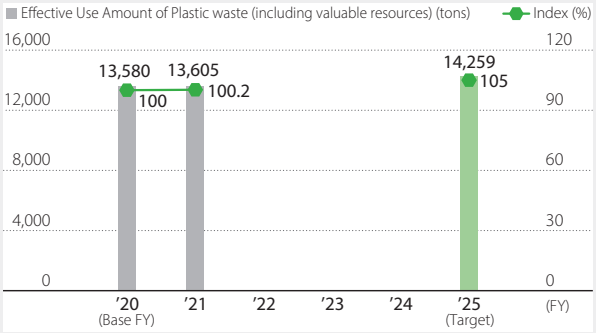


Improve the effective use rate of waste

Target	Improve by 5% or more relative to fiscal 2020 by fiscal 2025
Results	The rate worsened 1.7% relative to fiscal 2020 in fiscal 2021, failing to achieve the target.

*1 Effective use rate of waste = {(amount of internally recycled and reused waste + amount of internally recovered waste heat) + (amount of externally recycled and reused waste + amount of externally recovered waste heat)}/ amount of waste generated × 100

Effective Use Amount of Plastic waste (including valuable resources)*2 (2020 = 100)

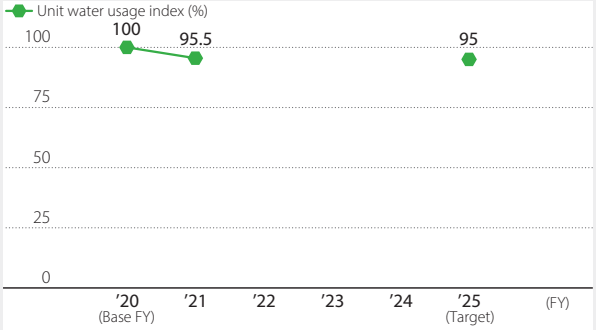


Improve the effective use amount of plastic waste

Target	Improve by 5% or more relative to fiscal 2020 by fiscal 2025
Results	Increased 0.2% relative to fiscal 2020 in fiscal 2021, failing to achieve the target.

*2 Effective use amount of plastic waste (including valuable resources) = (amount of valuable resources) + (amount of internally recycled and reused waste + amount of internally recovered waste heat) + (amount of externally recycled and reused waste + amount of externally recovered waste heat)

Unit Water Usage Indices (2020 = 100)



Improvement in Unit Water Usage Indices

Target	Improve unit water usage Indices by at least 1% annually on average.
Results	Improved by 4.5% relative to fiscal 2020 in fiscal 2021, achieving the target

Note: **The following 30 Group companies overseas are included in the boundary of calculation:**

Singapore	• The Polyolefin Company (Singapore) Pte.Ltd. • Sumitomo Chemical Asia Pte Ltd (MMA&S-SBR)
Thailand	• Sumipex (Thailand) Co., Ltd. • Bara Chemical Co., Ltd. • Sumika Polymer Compounds (Thailand) Co., Ltd.
China	• Dalian Sumika Chemphy Chemical Co., Ltd. • Sumika Electronic Materials (Wuxi) Co., Ltd.
	• Sumika Electronic Materials (Hefei) Co., Ltd. • Sumika Huabei Electronic Materials (Beijing) Co., Ltd.
	• Sumika Electronic Materials (Xi'an) Co., Ltd. • Zhuhai Sumika Polymer Compounds Co., Ltd.
	• Dalian Sumika Jingang Chemicals Co., Ltd. • Sumika Electronic Materials (Changzhou) Co., Ltd.
	• Xuyou Electronic Materials (Wuxi) Co., Ltd. • Sumika Electronic Materials (Chongqing) Co., Ltd.
Taiwan	• Sumika Technology Co., Ltd. • Sumipex Techsheet Co., Ltd.
India	• Sumika Polymer Compounds India Co., Ltd.
South Korea	• Dongwoo Fine-Chem Co., Ltd. • SSLM Co., Ltd.
United States	• Sumitomo Chemical Advanced Technologies LLC • McLaughlin Gormley King Company • Valent BioSciences LLC
	• Sumika Polymer North America LLC
Australia	• Botanical Resources Australia Manufacturing Services Pty Ltd. • Botanical Resources Australia Agricultural Services Pty Ltd.
United Kingdom	• Sumika Polymer Compounds UK Co., Ltd.
Turkey	• Sumika Polymer Compounds Turkey Co., Ltd.
France	• Sumika Polymer Compounds France Co., Ltd.
Vietnam	• Sumika Electronic Materials Vietnam Co., Ltd.

Environmental Activities: Supplementary Data

Environmental Management System

Between 1997 and 2001, ISO 14001:1996 certification was obtained at all Works and continually maintained thereafter. Updated ISO 14001 certification was obtained later and all Works have been inspected on a continual basis to ensure the certification does not expire.

Acquisition of ISO 14001 Certification

1. Sumitomo Chemical (Acquisition Rate: 100%)

Works	Certificate Number	Certification Date
Ehime Works (including Ohe Works)	JCQA-E-0018	April 12, 2025
Chiba Works (including the SCIOCS Chiba Facility)	KHK-97ER, 004	June 25, 2024
Osaka Works	JQA-E-90072	November 27, 2024
Oita Works (Gifu Plant)	JCQA-E-0206	December 24, 2024
Oita Works (Okayama Plant)	JCQA-E-0218	January 21, 2025
Oita Works	JQA-E-90152	March 30, 2025
Misawa Works	JQA-EM0355	December 12, 2022

2. Group Companies In Japan

Companies	Certificate Number	Certification Date
Sumika-Kakoushi Co., Ltd.	JCQA-E-0532	January 12, 2025
Sumika Color Co., Ltd.	JUSE-EG-680	May 8, 2024
Nippon A&L Inc. (Ehime Works)	ISO14001-0076790	January 3, 2025
Nippon A&L Inc. (Chiba Works)	(KHK-)97ER, 004	June 25, 2024
Asahi Chemical Co., Ltd.	JUSE-EG-717	February 26, 2024
Ceratec Co., Ltd.	JCQA-E-0018	April 12, 2025
Sumika Assembly Techno Co., Ltd.	JCQA-E-0018	April 12, 2025
Sumika Agro Manufacturing Co., Ltd. (Ehime Fertilizers Works)	JCQA-E-0018	April 12, 2025
Sumika Agro Manufacturing Co., Ltd. (Other Works)	13ER, 925	August 5, 2024
Koei Chemical Co., Ltd.	JCQA-E-0969	March 11, 2023
Taoka Chemical Co., Ltd. (Ehime Works)	JCQA-E-0018	April 12, 2025
Taoka Chemical Co., Ltd. (Yodogawa Works)	JQA-EM3938	November 27, 2024
Tanaka Chemical Corporation	4526844	July 25, 2023
SCIOCS COMPANY LIMITED	EC15J0024	March 24, 2024
Sumitomo Pharma Co., Ltd. (Suzuka Works)	00ER-094	December 21, 2024
Sumitomo Pharma Co., Ltd. (Oita Works)	JQA-E-90152	March 30, 2025
Sumika Polycarbonate Limited	JCQA-E-0436	December 23, 2023
SANRITZ Co., Ltd.	JMAQA-E105	April 26, 2024
Kohwa Chemicals Inc.	EMS 601582	December 26, 2022

Environmental Activities: Supplementary Data

3. Overseas Group Companies

Companies	Certificate Number	Certification Date
BARA CHEMICAL CO., LTD.	24120907002	August 29, 2024
SSLM CO., LTD.	EAC-06178	May 7, 2024
SUMITOMO CHEMICAL INDIA PRIVATE LIMITED (Tarapur plant)	IND.20.3082/IM/U	April 2, 2023
SUMITOMO CHEMICAL INDIA PRIVATE LIMITED (Vapi plant)	EMS 740097	March 9, 2024
SUMITOMO CHEMICAL INDIA PRIVATE LIMITED (Bhavnaga Plant)	99 104 00704/02	October 10, 2024
SUMITOMO CHEMICAL INDIA PRIVATE LIMITED (Gajod Plant)	99 104 00704/03	October 10, 2024
SUMITOMO CHEMICAL INDIA PRIVATE LIMITED (Silvassa Plant)	99 104 00704/04	October 10, 2024
SUMITOMO CHEMICAL ADVANCED TECHNOLOGIES LLC	43631-2008-AE-USA-ANAB	June 2, 2023
SUMIKA TECHNOLOGY CO., LTD.	EMS 89814	December 26, 2024
Dongwoo Fine-Chem Co., Ltd. (Pyeongtaek)	EAC-06003	July 9, 2024
Dongwoo Fine-Chem Co., Ltd. (Iksan)	KR15/02363	July 14, 2023
Dongwoo Fine-Chem Co., Ltd. (Samki)	KR20/81826429	August 22, 2022
SUMIKA ELECTRONIC MATERIALS (XI'AN) CO., LTD.	CN15/10718	September 8, 2024
SUMIKA HUABEI ELECTRONIC MATERIALS (BEIJING) CO., LTD.	19919E00003ROM	January 3, 2025
SUMIKA ELECTRONIC MATERIALS (HEFEI) CO., LTD.	268157-2018-AE-RGC-RvA	August 24, 2024
SUMIKA ELECTRONIC MATERIALS (SHANGHAI) CO., LTD.	11721EU0025-07 R1S	August 21, 2024
SUMIKA ELECTRONIC MATERIALS (WUXI) CO., LTD.	64188-2009-AE-RCG-RVA	October 30, 2024
SUMIKA ELECTRONIC MATERIALS (CHANGZHOU) CO., LTD.	CN20/10228	May 19, 2023
XUYOU ELECTRONIC MATERIALS (WUXI) CO., LTD.	00220E34370R0M	December 24, 2023
SUMIKA ELECTRONIC MATERIALS (CHONGQING) CO., LTD.	CN15/21719	December 6, 2024
SUMIKA POLYMER COMPOUND (THAILAND) CO., LTD.	66 104 130035	September 10, 2022
SUMIPEX (THAILAND) CO., LTD.	TH10/4097	November 30, 2023
Sumitomo Chemical Asia Pte Ltd (MMA plant)	10369744	June 30, 2024
Sumitomo Chemical Asia Pte Ltd (S-SBR plant)	SCS 102718EI	September 8, 2024
THE POLYOLEFIN COMPANY (SINGAPORE) PTE. LTD.	SG05/00847	May 14, 2023
ZHUHAI SUMIKA POLYMER COMPOUNDS CO., LTD.	CN13/30779	August 19, 2022
SUMIKA POLYMER COMPOUNDS DALIAN CO., LTD.	CN14/10103	March 25, 2023

Note: Surveys are conducted once per year, and the above list is based on the survey results as of March 31, 2022

Energy Management System

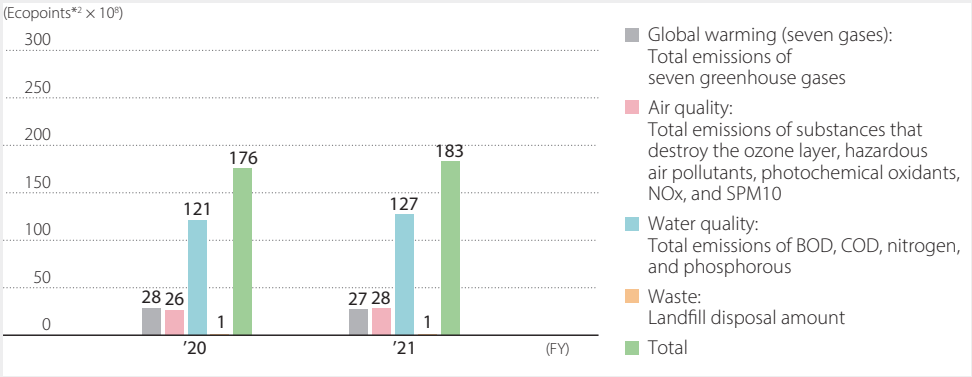
■ Acquisition of ISO 50001 Certification

Works	Certificate Number	Certification Date
Responsible Care Department, methionine plant and electrolysis plant of Ehime Works	ISO/IEC50001:2018	February 9, 2023

Environmental Activities: Supplementary Data

Examining the Practical Use of Environmental Efficiency Indicators and Environmental Management Accounting Methods

Breakdown of Aggregate Values for Environmental Impact (Sumitomo Chemical) by JEPIX*1



Assessing the Environmental Impact of Each Group Company Using JEPIX

In fiscal 2021, as in the previous fiscal year, we undertook environmental impact assessments using JEPIX, in order to evaluate the effectiveness of this index as a strategic management indicator, and continued with relevant analyses.

Assessing the Environmental Impact of Each Product by LIME*3

For more practical use of LCA*4 data both internally and externally, we use LCA software (MiLCA) from the Japan Environmental Management Association for Industry to undertake environmental impact assessments of our major products using the LIME method.

Trial Evaluation of Material Flow Cost Accounting (MFCA)*5

We are continuing to evaluate the effectiveness of this tool and also are performing examinations for the simplification and standardization of the method and procedures in order to foster their use. MFCA, which focuses on the loss of energy and resources, helps minimize loss and cost and reduces environmental impact.

*1 Environmental Policy Priorities Index for Japan (JEPIX):
This method, which employs a uniform single indicator called "Ecopoints" to evaluate environmental impact, is derived from the Swiss LCIA Eco Scarcity methodology. The current method evaluates the discrepancy between targets (e.g., laws and environmental policies) and actual conditions based on material flow data.

*2 Ecopoints:
An indicator for total environmental impact—the smaller the value, the lower the environmental impact.

*3 Life-cycle Impact assessment Method based on Endpoint modeling (LIME)
A life-cycle impact assessment method developed in Japan as a cornerstone for measuring Japan's environmental conditions.

*4 Life Cycle Assessment (LCA):
A method for evaluating the environmental impact of products and services throughout their life cycles.

*5 Material Flow Cost Accounting (MFCA):
An environmental cost accounting method that identifies input costs of materials, processing, electricity, fuel, and others, and compares them with the energy and resources lost in manufacturing processes.

Society (Social Activities)

Contributing to the SDGs through Social Activities

Contents

Social Activity Goals and Results

Goal achieved or steadily progressing: ○ Goal not achieved: △

Items		Boundary	Fiscal 2021 Goals	Fiscal 2021 Results	Evaluation	Fiscal 2022 Goals	Page
Procurement		Sumitomo Chemical Group	Thoroughly ensure compliance, maintain and enhance sustainable procurement, and promote initiatives for respecting human rights in the supply chain	Promoted thorough compliance among relevant internal and external parties, promoted initiatives for respecting human rights by studying high-risk raw materials, promoted sustainable procurement by strengthening collaboration with business partners through monitoring, feedback, and trade briefings, and promoted initiatives respecting human rights through detailed surveys using human rights questionnaires (Sumitomo Chemical results)	○	Thoroughly ensure compliance, maintain and enhance sustainable procurement, and promote initiatives for respecting human rights in the supply chain	Pages 178–183
HR Management		Sumitomo Chemical Group	Employ human resources and greatly strengthen recruitment capabilities	Secured personnel by strengthening and updating our recruitment practices	○	Employ human resources and greatly strengthen recruitment capabilities	Pages 184–205
		Sumitomo Chemical Group	Manage global human resources and work on workforce management that is responsive to business expansion	Revamped personnel database, appropriately placed personnel in response to business expansion, and systematically conducted global human resources development	○	Manage global human resources and work on workforce management that is responsive to business expansion	
		Sumitomo Chemical Group	Develop personnel and run HR systems to promote employee growth and development	Formulated action plans based on Sumika "Let's Do This Declaration"	○	Develop personnel and run HR systems to promote employee growth and development	
		Sumitomo Chemical Group	Promote sustainability, diversity and inclusion, and work-life balance	Promoted measures for each Group company by establishing the Group's Basic Principles on the Promotion of Diversity and Inclusion and formulated action plans based on Sumika "Let's Do This Declaration"	○	Promote sustainability, DE&I, and work-life balance	
Occupational Safety and Health / Industrial Safety and Disaster Prevention	Lost-workday injuries	Sumitomo Chemical	0	1	△	0	Pages 206–212
		Partner companies*1	0	6	△	0	
	Frequency rate of lost-workday injuries	Sumitomo Chemical Group*2	Less than 0.1	0.29	△	Less than 0.1	
	Severe accidents*3	Sumitomo Chemical Group*2	0	1	△	0	
	Severe industrial accidents*4	Sumitomo Chemical Group*5	0	1	△	0	
	Lost-workday injuries in logistics*6	Logistics	0	0	○	0	

Note: Further details are provided in the supplementary data (pages 238–246).

*1 A partner company injury is defined as one suffered within a Sumitomo Chemical worksite by an employee of a company affiliated with a subcontractor (including construction and logistics companies) or other company (including spot construction-related companies and delivery companies not included in an association).

*2 For the purposes of occupational safety and health, the Group is defined as Sumitomo Chemical (including its partner companies and others) and consolidated subsidiaries in Japan and overseas.

*3 Severe accidents are defined as those that result in a fatality or those that result in severe lost-workday injuries, including blindness or loss of a limb.

*4 Severe industrial accidents are defined as industrial accidents resulting in any of the below conditions.
- The local residents suffer injuries requiring at least regular hospital visits or treatment.
- Employees at the facility suffer injuries that require at least one lost workday.
- The damage to the facilities totals more than 10 million yen.

*5 For the purposes of industrial safety and disaster prevention, the Group is defined as Sumitomo Chemical (including its partner companies and others) and consolidated Group companies in Japan and overseas.

*6 Lost-workday injuries in logistics are defined as those that are related to logistics and occur within Sumitomo Chemical worksites as well as those that caused by major logistics subcontractors outside of worksites.

Social Activity Goals and Results

Goal achieved or steadily progressing: ○ Goal not achieved: △

Items		Boundary	Fiscal 2021 Goals	Fiscal 2021 Results	Evaluation	Fiscal 2022 Goals	Page
Product Stewardship / Product Safety / Quality Assurance	Laws and regulations	Sumitomo Chemical	Continue to act precisely in accordance with domestic and overseas laws and regulations	Acted precisely in accordance with relevant laws and regulations	○	Continue to act precisely in accordance with domestic and overseas laws and regulations	Pages 213–218
	Chemicals management and information disclosure	Sumitomo Chemical	Continue to promote risk-based chemicals management and information disclosure	Systematically put in place risk assessment methods	○	Continue to conduct risk-based chemicals management and information disclosure	
	Chemical management system	Sumitomo Chemical	Continue to promote utilization of the comprehensive chemical management system (SuCCESS) and develop concrete plans for expansion to Group companies	As part of our efforts to promote utilization of SuCCESS, 14 Group companies in Japan use the system. We use SuCCESS to calculate the manufactured volumes reported to the government under the chemical substances control law via a substance volume tracking (SVT) system as well as to calculate exported volumes in response to overseas regulations	○	Continue to promote utilization of SuCCESS and develop concrete plans for expansion to Group companies	
	Risk assessment	Sumitomo Chemical	Continue to steadfastly perform product safety risk assessments	Performed 61 product risk assessments	○	Continue to steadfastly perform product safety risk assessments	
	Logistics quality-related incidents	Sumitomo Chemical*	No Rank A or Rank B incidents, two or fewer Rank C incidents	No Rank A or Rank B incidents, no Rank C incidents	○	No Rank A or Rank B incidents, two or fewer Rank C incidents	
Communities		Sumitomo Chemical Group	Provide support to achieve the United Nations Sustainable Development Goals	• Provided support for tree-planting activities and education through Matching Gift programs • Support for solving Environmental issues in Africa	○	Provide support to achieve the United Nations Sustainable Development Goals	Pages 226–237
		Sumitomo Chemical Group	Provide prompt and precise support in response to emergencies and disasters in Japan and overseas	Supported areas recovering from the torrential rains in 2021 (July, August)	○	Provide prompt and precise support in response to emergencies and disasters in Japan and overseas	
		Sumitomo Chemical Group	Promote social contribution activities distinctive to the Sumitomo Chemical Group by leveraging the strengths of each workplace	Participated in and cooperated with local events, held science workshop classes, held plant tours, etc.	○	Promote social contribution activities distinctive to the Sumitomo Chemical Group by leveraging the strengths of each workplace	
		Sumitomo Chemical Group	Continue to expand information disclosure using SDGs and promote interactive dialogue	Continued to expand information disclosure using SDGs and promote interactive dialogue	○	Continue to expand information disclosure using SDGs and promote interactive dialogue	

Note: Further details are provided in the supplementary data (page 247).
* Includes some Group companies in Japan that have Works within a Sumitomo Chemical worksite.

Respect for Human Rights

Basic Stance

Sumitomo Chemical regards respect for human rights as part of the foundation for its business continuity. We are continuing to make a group-wide effort to address this as a material issue for management, and provide disclosures on our measures and progress. In order to accelerate its efforts on human rights, Sumitomo Chemical formulated the Sumitomo Chemical Group Human Rights Policy in April 2019, based on the Universal Declaration of Human Rights, the International Labor Organization Declaration on Fundamental Principles and Rights at Work, the Ten Principles of the United Nations Global Compact, and the United Nations Guiding Principles on Business and Human Rights. At the same time, we established the Human Rights Promotion Committee, a committee tasked with promoting our human rights initiatives. In order to pursue a group-wide effort to respect human rights, we are committed to ensuring that all Group companies in Japan and overseas are fully aware of the Human Rights Policy and take action on these principles.

Sumitomo Chemical Group Human Rights Policy (Effective April 1, 2019)

This policy was formulated based on the advice of outside human rights experts with practical experience.

Sumitomo Chemical Group (Sumitomo Chemical Co., Ltd. and its Group Companies) has put in place this Human Rights Policy ("Policy") to demonstrate its commitment to international standards on human rights. All directors, executive officers and employees ("Personnel") of the Sumitomo Chemical Group will uphold this Policy.

1. Our Position on Human Rights

(1) Compliance with Standards, Laws and Regulations

We support and respect international standards on human rights, such as the Universal Declaration of Human Rights, International Labor Organization (ILO) Declaration on Fundamental Principles and Rights at Work, and promote respect for human rights in line with the United Nations Guiding Principles on Business and Human Rights. Sumitomo Chemical Co., Ltd. is a signatory to the United Nations Global Compact and supports its Ten Principles, which include human rights and labor.

We comply with applicable laws and regulations in countries and regions where we operate, and where local laws and regulations conflict with international standards, we will seek ways to honor the principles of internationally recognized human rights.

(2) Respect for Human Rights in Our Business Activities

We do not discriminate against individuals based on employment status, age, sex, ethnic or social origin, ancestry, nationality, disability, religion, beliefs, marital status, or any other status. We do not tolerate any form of harassment, including sexual harassment or workplace bullying. We also respect fundamental labor rights including freedom of association and the right to collective bargaining, and prohibit forced labor or child labor.

We are committed to respecting human rights in our business activities and also strive to avoid contributing to infringement of human rights. In order to prevent and mitigate human rights risks related to our business activities, we will take necessary measures, including ensuring compliance with the Compliance Manual (the Sumitomo Chemical Code of Business Conduct) and other relevant policies and guidelines. We are also committed to understanding our impact on local communities and aim for harmonious coexistence with these communities.

We expect our business partners, including our suppliers, and other relevant stakeholders to act in line with the principles in this Policy, and we will seek ways to work with them to promote respect for human rights.

Respect for Human Rights

2. Our Approach to Human Rights Issues

(1) Providing Education and Raising Awareness

We will provide appropriate education and training to our Personnel so that this Policy is understood and effectively implemented.

(2) Human Rights Due Diligence

We will identify adverse human rights impacts, and seek to prevent or mitigate such impacts though our human rights due diligence framework.

(3) Responding to Identified Human Rights Impacts

We will engage with relevant stakeholders in order to address actual or potential adverse human rights impacts.

(4) Remedy

Where we identify that we have caused or contributed to adverse human rights impacts, we will endeavor to remediate such impacts through appropriate processes.

(5) Grievance Mechanisms

We have grievance mechanisms in place in the form of the Speak-Up Reporting System (whistle-blowing channels) in order to address concerns about activities that may adversely impact human rights or any other concerns raised about our business activities. These channels are available for anyone having involvement in Sumitomo Chemical Group's business activities, including their business partners as well as Sumitomo Chemical Group Personnel and their families. We will continuously seek to optimize our grievance mechanisms.

(6) Disclosure

We will report on our efforts to respect human rights including through our website, integrated report, Sustainability Data Book, and other relevant channels.

Announcement of the Group Statement Based on Human Rights Laws and Regulations

We at the Sumitomo Chemical Group, as a globally operating corporation, have announced a group statement on our efforts to address risks related to modern slavery and human trafficking in our business activities and supply chain. This statement is based on laws and regulations in various countries with regard to respect for human rights and the prevention of modern slavery and human trafficking, including the Modern Slavery Act of the United Kingdom, the Modern Slavery Act of Australia, and the California Transparency in Supply Chains Act of the United States.

Responding to Human Rights Laws and Regulations

https://www.sumitomo-chem.co.jp/english/sustainability/society/human_rights/statement/

Respect for Human Rights

Management System

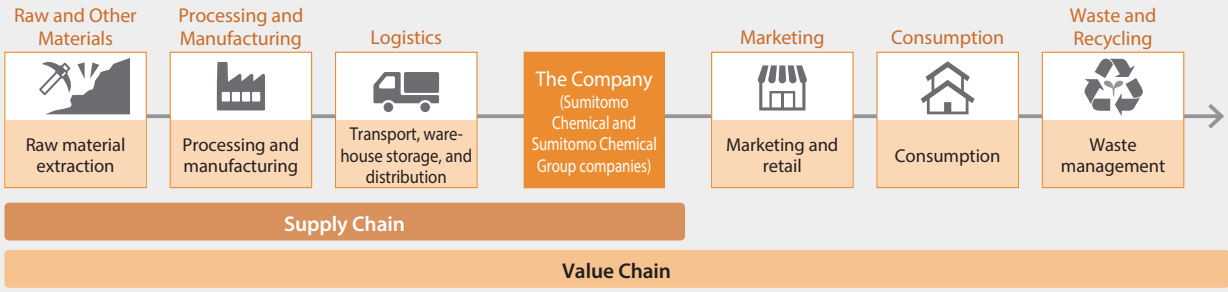
Human Rights Promotion Committee

Sumitomo Chemical has established the Human Rights Promotion Committee as its organization for promoting activities in compliance with the Human Rights Policy. In order to plan and implement measures to respect human rights across the entire value chain,*1 this committee consists of members from a broad range of related departments and functions. The senior executive officer in charge of corporate departments serves as chair, while from the business sectors, executive officers responsible for the Planning & Coordination Offices*2 of their respective departments participate as committee members.

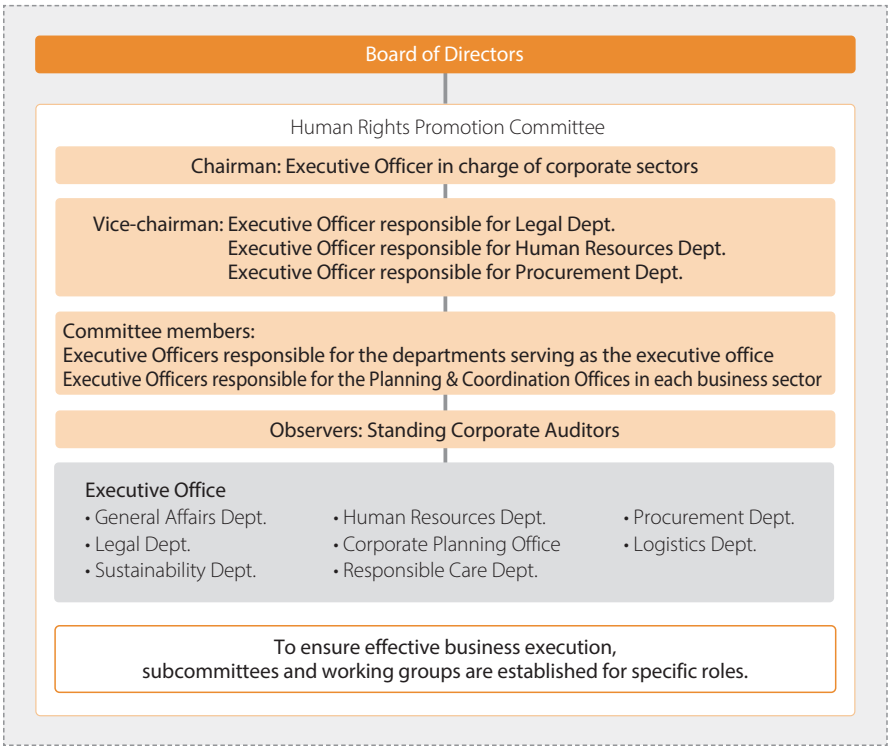
*1 Value chain is defined by ISO 26000, which is an international standard related to social responsibility, as an "entire sequence of activities or parties that provide or receive value in the form of products or services." See below for details.
*2 The Planning & Coordination Offices are departments in charge of matters related to the planning, technologies, and development of each business sector.

Roles of the Committee

(1) Formulation and implementation of measures regarding respect for human rights across the Group's value chain, including:
— Formulation and publication of policies required by the Guiding Principles on Business and Human Rights and relevant national laws
— Identification of human rights issues across the value chain, assessment of risks, and implementation of measures, including remedies, that are appropriate for specific issues and their associated risks (human rights due diligence and relief efforts)
(2) Promotion of awareness of human rights inside and outside the company



System and Committee for Promoting Respect for Human Rights



Respect for Human Rights

Group-wide Approach

Based on its basic policy for respect for human rights, Sumitomo Chemical continues to take various measures to promote respect for human rights by working closely with its Group companies in Japan and overseas, while also engaging business partners.

Overseas, in particular, we are working with our regional headquarters in Europe, the Americas, China, and the Asia-Pacific region to ensure and promote compliance, including initiatives to protect human rights, based on our compliance system that we have established in accordance with respective local legal systems of the countries where we operate.

Examples of Initiatives

Human Rights Due Diligence and Relief Efforts

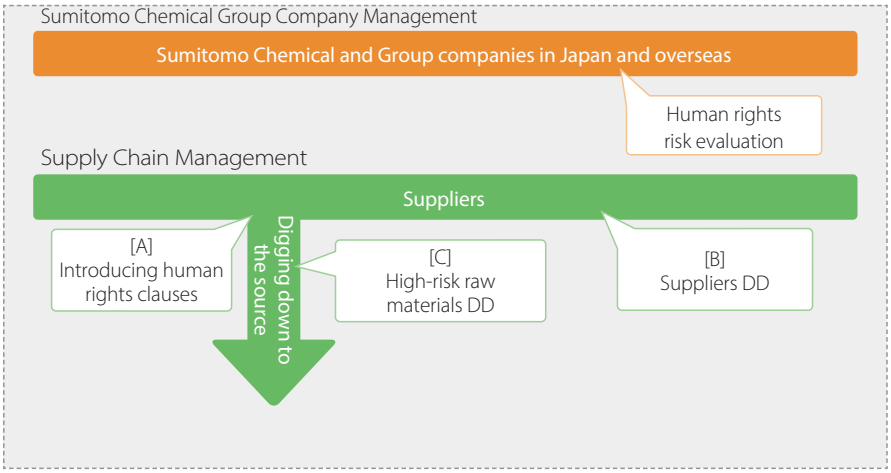
With the aim of promoting respect for human rights in its business activities, the Sumitomo Chemical Group has established a system for human rights due diligence in accordance with the United Nations Guiding Principles on Business and Human Rights. Under our approach to evaluating, reducing, and preventing human rights risks, not only for Sumitomo Chemical itself and its supply chain, but also for Group companies in Japan and overseas and their supply chains, we set priorities based on potential human rights risks, and implement our efforts in steps. The Sustainability Department, Legal Department, Procurement Department, and Logistics Department collectively serve as secretariat office for human rights due diligence, working with business sectors and other relevant departments to ensure that our entire value chain is assessed.

External specialists conduct human rights risk evaluations of the Group to evaluate, reduce, and prevent human rights risks within the Group.

Moreover, for the supply chain, we rank priorities based on assumed human rights risks, conduct surveys, and promote engagement. As a comprehensive initiative, we ensure the effectiveness of human rights risk reduction initiatives by including clauses related to the implementation of human rights-related initiatives in new and existing agreements. As a practical risk reduction initiative, we distribute the Sumitomo Chemical Group Sustainable Procurement Guidebook and collect responses to check sheets and human rights questionnaires, thereby determining the status of general sustainability measures and management systems, including those related to human rights, at suppliers (supplier due diligence, hereinafter "supplier DD"). In addition, for suppliers of raw materials that have a high risk of having a negative impact on human rights (high-risk raw materials), we conduct high-risk raw material due diligence (DD) through surveys that dig down to the source.

If it is discovered through these activities that any negative impacts on human rights are occurring because of our Group's business activities, or have been fostered by the Group's business activities, we will redress or resolve those incidents through the appropriate procedures, in collaboration with related stakeholders.

■ Human Rights Due Diligence Overview of Initiatives



Respect for Human Rights

Approach to Our Human Rights Due Diligence Efforts

Human Rights Due Diligence Summary of Initiatives

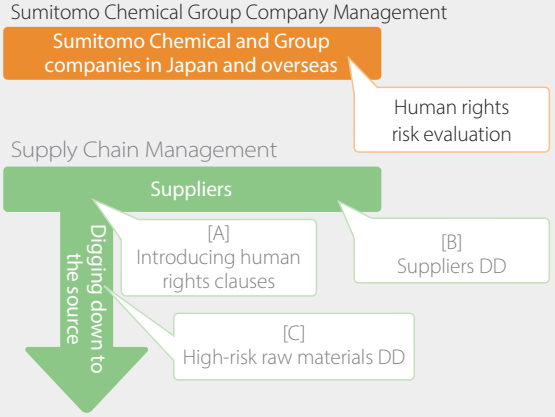
	Initiatives to date	Action plan for FY2022
Sumitomo Chemical Group	In FY2020, we conducted on-site inspections and questionnaire-based written surveys for 30 Group companies that were identified to have relatively high human rights risks through the FY2019 human rights risk group assessment. In FY2021, we followed up on the previous year's on-site and written surveys to confirm the status of efforts to respect human rights, including consideration of living wages. Based on the results of the survey, we will take measures to further strengthen our efforts, such as specifying human rights and labor in our requests to suppliers.	Since it is important to assess human rights risks on a regular basis, we will conduct a human rights risk assessment (second round) for the Company and its consolidated management companies. We will also continue to conduct educational activities, such as inviting outside lecturers to conduct training for employees of the Company and Group companies, so that each and every employee of the Group will have a deeper understanding of the importance of respect for human rights.
Supply chain	We have distributed the Sustainable Procurement Guidebook to our suppliers and conducted surveys on the status of our overall sustainability efforts. In addition to these efforts, in FY2021, we conducted a detailed survey of our major suppliers (10 companies) in Japan, using a new questionnaire focused on human rights. As a result, we found that while most of our suppliers are implementing initiatives in line with the UNGPs, we need to strengthen our efforts to encourage some of them to understand and cooperate with our initiatives in line with the UNGPs.	Based on the results of the human rights questionnaire survey in FY2021, we will consider our response through engagement with key suppliers. We will also revise the "Sumitomo Chemical Group Sustainable Procurement Guidebook" to share understanding and awareness with suppliers in light of the trend toward strengthening human rights and sustainability initiatives.
Suppliers handling high-risk raw materials among the above	In accordance with the "Sumitomo Chemical Group Policy for Responsible Procurement of Minerals and Raw Materials" formulated in 2020, we have been investigating the usage status of high-risk raw materials at our domestic group companies since FY2020 in order to prioritize due diligence on suppliers of raw materials with a high risk of causing negative impacts on human rights (highrisk raw materials) in the supply chain. As a result, we found that additional confirmation of the procurement source of some raw materials was necessary.	We will conduct additional confirmation of the procurement sources of some of the raw materials mentioned above, based on the results of our investigations to date. We will also continue to request reporting in accordance with Responsible Minerals Initiative from suppliers that handle high-risk raw materials, and will progressively conduct risk assessments and investigate the possibility of expanding to overseas group companies.

Sumitomo Chemical Group Company Management

Sumitomo Chemical Group Company Management Flow

Group Company Risk Evaluation

Based on our risk approach policy, we undertook an overview of human rights due diligence over the past three years.



FY2019	• Human rights risk evaluations (risk mapping) conducted by external specialists
FY2020	• Conducted detailed surveys (on-site and written) of Group companies thought to have relatively high levels of risk in the human rights risk evaluations (risk mapping) conducted in fiscal 2019
FY2021	• Regarding written survey responses that indicate concerns about human rights violations, we confirmed actual conditions at each company • Studied and implemented countermeasures for matters pointed out in on-site surveys conducted by external specialists

Respect for Human Rights

<Initiatives in FY2021>

Human rights risk evaluations (human rights risk mapping) were conducted by external specialists in fiscal 2019, and in fiscal 2020 we conducted detailed surveys (written and on-site) for Group companies thought to have relatively high levels of risk in the human rights risk evaluations. In fiscal 2021, we conducted follow-up surveys to the detailed surveys. Specifically, we held hearings with external specialists and local Group companies to determine differences in regulations and standards depending on the country and region and confirmed the status of respect for human rights initiatives, from the provision of a living wage to ensuring that foreign national workers are able to hold their own passports. As a result, at Group companies where we conducted detailed surveys, measures are being taken in line with the laws and regulations of each country, and we did not discover major risks that violate matters required by international standards, such as the International Labor Organization's Core Labor Standards.* Nevertheless, to further strengthen respect for human rights, we take such measures as highlighting human rights and labor when making requests of suppliers. In addition, Group-wide we are rolling out good initiatives identified in the previous fiscal year's survey that should be referenced by other Group companies with the aim of mitigating human rights risks.

* The ILO's Core Labor Standards established minimum standards related to labor, specifically singling out the right to freedom of association and collective bargaining, prohibition of forced labor, prohibition of child labor, and elimination of discrimination.

Fiscal 2019 Initiative Details

In fiscal 2019, we conducted human rights risk assessment (risk mapping) for Sumitomo Chemical and 162 consolidated group companies. With the help of external experts, we estimated potential human rights risks in each company based on their businesses, location (country and region), personnel composition, and the raw materials and products they handle. Then we examined how each company addresses risks, by referring to the results of internal audits and Responsible Care audits that had been conducted for the company. These processes were aimed to make our assessment objective and pertinent to actual situations.

[Risk Evaluation Items]

For this risk assessment, we first set the four categories of society, environment, worker health and safety, and governance as major focal areas, and for each category, we determined items in detail for assessing risks. For example, in the category of "society," we selected such diverse items as forced labor, child labor, discrimination, harassment, freedom of association, indigenous people, and cultural heritage. In other categories, we conducted risk assessment as to those items that we had addressed in audits, by examining them from a human rights perspective.

Society	
S1	Forced labor and human trafficking
S2	Child labor
S3	Work hours
S4	Wages and employment contract
S5	Discrimination
S6	Harassment and punishments
S7	Freedom of association
S8	Land rights
S9	Negative social impact on local communities
S10	Indigenous people and cultural heritage
S11	Privacy
S12	Countermeasures and management procedures (supply chain)

Environment	
E1	Environmental pollution
E2	Resource management
E3	Noises, vibrations, and odors
Worker Health and Safety	
HS1	Countermeasures and management procedures
HS2	Machine safety
HS3	Fires and explosions
HS4	Hazardous operations
HS5	Infectious, dusty, and asbestos operations
Governance	
G1	Prevention of bribery
G2	Prevention of accounting fraud
G3	Prevention of quality-related fraud
G4	Examples of violations

[Policy for Calculating Risk Scores]

Regarding each item, we confirm activities as factors either contributing to or reducing risk. When there are activities that could become risk factors, we add to the risk score, and when there are activities that reduce risk factors, we subtract from the risk score, thereby quantifying risk.

Examples that add to the risk score:

- Employing foreign national workers and migrant workers
- Operational region of the Group company ranked as a high-risk country in indices published by international institutions (for example: the Global Child Forum & UNICEF's Children's Rights and Business Atlas)
- Businesses considered labor-intensive (business categories considered to have a relatively high ratio of low-wage workers)

Examples that subtract from the risk score:

- Confirming the personal IDs of migrant workers and storing copies
- Formulating policies related to prohibiting child labor
- Confirming the provision of employee wages in an amount adequate to provide for a family and meet basic needs, such as food and housing

Respect for Human Rights

Fiscal 2020 Initiative Details

We conducted an on-site or written survey as a detailed investigation of 30 Group companies that were rated as having a relatively high risk in the human rights risk assessment (risk mapping) conducted in fiscal 2019 for Sumitomo Chemical and its Group companies.

[Document Inspection – Targets: 26 companies, in locations including China, India, Thailand, and Japan)]
Under the four categories: Society, the Environment, Health & Safety, and Governance, questionnaires were sent and answers were collected. The companies were asked whether they conducted any business activities with high human rights risks and about the implementation status of risk mitigation measures.

[On-site Inspection – Targets: 4 companies total, in China, Thailand, and Tanzania]
For the Group companies identified to have particularly high human rights risks, outside experts were appointed to conduct inspections including reviewing documents such as employment and wage regulation documents, conducting interviews with local employees (including temporary employees), and inspecting the work environment (including the remote investigation).

As a result of these investigations, we learned the following

Good initiatives that should be referenced by other group companies to mitigate human rights risk:
- Environmental conservation and worker health and safety measures are being rolled out at a high level (all 4 companies) (for example: working on continual improvement, including waste reduction activities and rain water recycling, going beyond legal and regulatory requirements)
- The basic procurement principles are translated into local languages and communicated to all primary suppliers (Tanzania)
- External attorneys are invited every year to conduct training for employees on regulations and the latest trends related to labor problems (China)

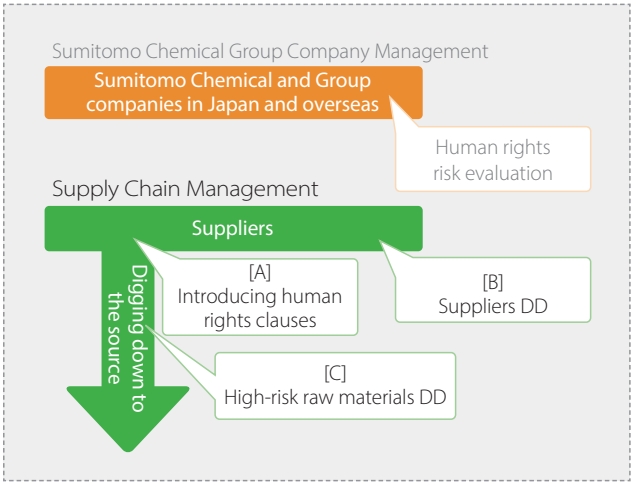
Issues that need improvement:
- Measures are taken as a practical matter, but mandatory matters for suppliers regarding human rights and labor are not specified in evaluation methods or standards (China, Thailand)

<FY2022 Initiative Plans>

Because it is important to regularly conduct risk evaluations in response to changes in social conditions, we will implement (the second round of) human rights risk assessments for the Company and its Group companies. In addition, we have worked to date to raise awareness of our human rights policies, which form the foundation of respect for human rights, and we will continue conducting such educational activities as inviting external lecturers to conduct training for Sumitomo Chemical and Group company employees in order to further deepen understanding of respect for human rights among all Group employees.

Supply Chain Management

Supply Chain Management Flow



Respect for Human Rights

A. Introducing Human Rights Clauses into Contracts

In fiscal 2020, we have formulated contract provisions that request understanding of and cooperation with our efforts to respect human rights, and have begun including them in our contracts with our business partners, including raw material suppliers, materials and equipments suppliers, logistics providers, and contract manufacturers.

We will not only continue to sign contracts that include these human rights provisions, we will also respond in line with the procedures defined in these human rights provisions when negative impacts on human rights occur in our supply chain, or under the apprehension that such an impact has occurred.

[Main Content in Human Rights Clauses (required matters)]

- Comply with human rights-related international standards and the *Sumitomo Chemical Group Sustainable Procurement Guidebook*
- Strive to seek similar responses from suppliers further upstream
- Formulate policies and conduct human rights due diligence
- Cooperate on the Company's initiatives

B. Supplier DD

The Sumitomo Chemical Group is committed to building mutually-beneficial and sound relationships with its business partners. We ourselves do business in a fair, equitable and transparent way, while also promoting sustainable procurement efforts across the entire supply chain with respect for human rights and a firm commitment to compliance. In order to encourage our business partners to work on sustainability efforts, we have formulated the *Sumitomo Chemical Group Sustainable Procurement Guidebook*. We ask our business partners to respect human rights, prohibit harassment and inhumane treatment, eradicate discrimination in recruitment and employment, ensure equal opportunities and equitable treatment, comply with regulations on working hours, respect the right to organize, prohibit forced labor and child labor, and comply with minimum wage regulations.

<Initiatives in Fiscal 2021>

In order to have a coherent understanding of the ESG risks in raw material procurement processes throughout our supply chain, we confirmed the status of our initiatives by sharing the Sumitomo Chemical Group Sustainable Procurement Guidebook with our major business partners, and collected the checklist filled out by each company. The results showed that 91% were considered as practicing sustainable procurement (the sustainable procurement ratio) as of March 31, 2022. In fiscal 2021, in addition to these initiatives, we conducted new detailed surveys through questionnaires specially focused on human rights (the human rights questionnaire) given to domestic business partners, who are the Company's major suppliers. As a result, although initiatives aligned with the overall guidance principles were undertaken, we determined that we need to strengthen efforts at some suppliers to enable them to foster greater understanding of and cooperation in initiatives aligned with guidance principles.

(Excerpts of the Human Rights Questionnaire)

The questionnaire comprises two parts, questions confirming the company-wide management systems and questions specially focused on human rights (the presence of human rights risks and the status of risk mitigation measures).

Major items	Examples of specific questions
(1) Questions related to company-wide management systems	Numbers of employees, presence of labor unions, status of formulation of policies (for example: human rights policies, legal and regulatory compliance, environmental conservation, worker health and safety), supply chain management status (for example: status of risk assessments for business partners and the supply chain), establishment of whistleblower hotline
(2) Questions specially focused on human rights (for example: confirming forced labor risks for foreign national workers and migrant workers)	• Employment status of foreign national workers and migrant workers • Does the company use recruitment specialists when employing foreign national workers and migrant workers? • If using recruitment specialists, is the company doing its due diligence to ensure the specialists' business activities do not violate the human rights of job seekers? • Has the company established an internal procedure for confirming whether recruitment specialists are collecting fees from job seekers? • Before the planned worker departs their home country, does the company provide documents that clarify the main working conditions (job duties, wages, workhours, etc.) in the worker's native language or a language the worker can understand? • Before the planned worker departs their home country, does the company explain necessary information related to the country where they will work or the workplace (rules of the workplace, worker health and safety, performance considerations, use of dormitory, helpdesk contact information if there are problems, etc.) in the worker's native language or a language the worker can understand?

Respect for Human Rights

<FY2022 Initiative Plan>
Based on the fiscal 2021 survey results of the human rights questionnaire, we are considering responses with major suppliers. In addition, Given the trends toward strengthening initiatives related to human rights and sustainability, we revised the Sumitomo Chemical Group Sustainable Procurement Guidebook and will continue to work further to share understanding and awareness with suppliers. In addition, we will continue promoting sustainable procurement initiatives and thoroughly confirm the status of respect for human rights at business partners, such as the presence of business activities with high human rights risks and the status of risk mitigation measures.

C. High-risk Raw Material DD
The Sumitomo Chemical Group formulated the "Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials" in March 2020 to further promote efforts prohibiting the procurement of conflict minerals. Under the policy, the Group defines high-risk raw materials as those that having a high probability of negatively impacting human rights in the supply chain, including, but not limited to, tantalum, tin, gold, tungsten, cobalt, mica, graphite, and pulp. Depending on the characteristics of the high-risk raw materials, we promote initiatives aligned with the premise of the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (the OECD Guidance).

<FY2021 Initiatives>
From fiscal 2020, in line with the Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials, we conducted surveys of the usage status of high-risk raw materials at the Company and Group companies in Japan. As a result, we determined that we need additional confirmation for some raw materials.

<FY2022 Initiative Plan>
Regarding some of the raw materials mentioned above, we will conduct additional confirmation while cooperating with Business Sectors and business partners based on the survey results to date.

In addition, for business partners who handle high-risk raw materials, we will continue requesting reports based on the Responsible Minerals Initiative (RMI), steadily promote risk assessments, and consider rolling these efforts out to overseas Group companies.

P.182 **Procurement:** Initiatives Related to High-Risk Raw Materials

Respect for Human Rights

Grievance Mechanisms

We have grievance mechanisms in place in the form of the Speak-Up Reporting System (whistle-blowing channels) in order to address concerns about activities that may adversely impact human rights or any other concerns raised about our business activities. These channels are available for anyone involved in Sumitomo Chemical Group's business activities, including their business partners as well as Sumitomo Chemical Group Personnel and their families.

In addition, regarding harassment in particular, Sumitomo Chemical has established a harassment consultation office and consultants. We have set up systems to provide consultations for employees regarding various types of harassment, including power harassment, sexual harassment, maternity harassment, and SOGI harassment.*

Furthermore, at all aforementioned offices, in fiscal 2021, there were no confirmed cases related to discrimination and no major negative impact on human rights affecting the business continuation of the Group.

The Group will continue working to more effectively operate grievance mechanisms going forward.

* SOGI harassment: harassment related to sexual orientation and gender identity

P.86 **Compliance:** Speak-Up Reporting System

Education and Awareness Raising

Our basic policy for respect of human rights is articulated in our *Compliance Manual* (Sumitomo Chemical Code of Business Conduct) and also communicated across through our intranet. In addition, our labor-management agreement makes it clear that an employee who damages the work environment for other employees through sexual speech and behavior, harassment, or other similar actions is considered violating our work regulations and thus subject to disciplinary action.

Under these principles, we value respect for an individual's personality, prohibiting any action to disrespect or disparage an individual's personality taken based on personal emotions or values or any harassment, bullying or similar speech or action.

We also prohibit all kinds of harassment, including power harassment and sexual harassment (including harassment to a person of the same gender and harassment to LGBTQ people regarding sexual orientation and gender identity).

In addition, we prohibit discrimination and does not allow any discriminatory action that is taken for reasons of employment type, age, gender, birthplace, ancestry, nationality, race, disability, religion, beliefs, marital status, or other such attributes and harms an individual's dignity. We particularly make it clear that discrimination based on gender or a difference in sexual orientation or gender identity and discrimination against people with disabilities are prohibited.

Raising Employees' Awareness of Human Rights

To ensure that each employee correctly understands and is fully aware of human rights issues, Sumitomo Chemical incorporates human rights in its employee education. We highlight human rights not only in the introductory training in which all employees participate after joining the Company but also in many other internal training programs, such as those for newly promoted employees (when promoted to a higher grade or a manager position), those for recruiting interviewers, and those for staff seconded from other companies as well as employees rehired after retirement.

In addition, we regularly implement awareness-raising training and initiatives at each site of our operations and each Group company.

■ Initiatives to Raise Awareness of Human Rights for FY2021

Name and format	Purposes	Boundary	FY	Sessions	Participants	Participation rate (%)
Seminars and lectures on human rights Training based on the Sumitomo Chemical Group Human Rights Policy	• Preventing harassment and discrimination on the grounds of gender and against social minorities and human rights violations • Preventing child labor, forced labor, and human trafficking etc.	Sumitomo Chemical	FY2021	66	7,047 (cumulative total)	104
		Sumitomo Chemical Group (42 major Group companies in Japan)	FY2020	126	7,434 (cumulative total)	49.5

Respect for Human Rights

We provided opportunities for all Sumitomo Chemical Group employees and executives to learn about business and human rights through a website specifically for the Global Project, which is aimed at helping employees promote sustainability.

A total of 25,000 people took courses offered on the website, where they learn about the Company's policies and initiatives related to human rights issues, such as modern slavery by answering questions.

Learning related to human rights and business using the Global Project (example)

<Ensuring an accurate understanding of human rights problems and checking employees' understanding by asking questions>

We established three themes: modern slavery and companies' responsibility to respect human rights, initiatives related to sustainable procurement, and resilient organizations. Employees deepen their understanding of human rights as they answer questions on each theme.

Please select the incorrect policy on companies' responsibility to respect human rights.

A	Within the Company, we are required to raise awareness and take various measures to ensure that discrimination, sexual harassment, and power harassment do not occur.
B	When conducting business, we are required to take measures to ensure that the environment is not damaged.
C	The handling of products and industrial waste is outsourced to waste treatment and disposal operators, and, therefore, if a problem arises, the Company bears no responsibility.

The answer is C.

It is important to recognize that human rights violations that occur within the Company's value chain are considered human rights problems for the Company. Even if a human rights problem occurs at a subcontractor, the contracting company also bears responsibility.

Respect for Human Rights

Engaging in Human Rights Initiatives

Stakeholder Engagement Program hosted by Caux Round Table Japan

Since fiscal 2019, Sumitomo Chemical has participated in the Stakeholder Engagement Program hosted by Caux Round Table Japan, a non-profit organization, to better understand what circumstances can cause human rights issues and how business activities are related to human rights, as well as material human rights issues and the importance of considering human rights in business activities.

This program invites companies, non-government and non-profit organizations, and experts to discuss human rights due diligence that is required by the Guiding Principles on Business and Human Rights. The subject for fiscal 2021 was "Human Rights Issues by Sector" formulated by the Nippon CSR Consortium in fiscal 2020. Participants engaged in sectoral discussion, referring to the human rights guidance tool created by the United Nations Environment Programme Finance Initiative (UNEP FI). (We participated in the discussion for the chemical, construction material, and manufacturing sectors.)

Fiscal 2021 Stakeholder Engagement Program (Human Rights Due Diligence Workshop) Report

https://crt-japan.jp/files2022/2021%20SHE%20report_en.pdf

Human Rights Due Diligence Subcommittee hosted by Global Compact Network Japan

Since fiscal 2019, Sumitomo Chemical has engaged in the Human Rights Due Diligence Subcommittee hosted by the Global Compact Network Japan in order to promote human rights due diligence based on the Guiding Principles on Business and Human Rights.

In fiscal 2021, the subcommittee organized various initiatives such as seminars by experts, workshops related to human rights due diligence, and interviews with leading companies in this area. We will continue to deepen our understanding of human rights by engaging in various initiatives, and leverage the learning in the Group's human rights promotion efforts.

Others

Signed onto the Declaration of Partnership Building

Sumitomo Chemical supports the premise of the "Council on Promoting Partnership Building for Cultivating the Future" promoted by Japan's Cabinet Office and the Small and Medium Enterprise Agency and announced our Declaration of Partnership Building. This initiative aims to encourage the collaboration of large companies with small and medium-sized companies, promote measures to enhance productivity across the entire supply chain, and build mutually beneficial relationships between large companies and small and medium-sized companies. In its declaration, Sumitomo Chemical not only clarifies as one of its individual items that it will conduct trade in a manner that ensures fairness and transparency but also clarifies that it emphasizes human rights and compliance and is promoting sustainable procurement initiatives throughout the supply chain to enforce sustainability initiatives at suppliers.

Announcement of our "Declaration of Partnership Building" (Japanese only)

https://www.sumitomo-chem.co.jp/news/detail/20210618_2.html

Consideration for Human Rights in Investment

Along with interviews and legal due diligence for investment candidates, before acquisition we confirm consideration for human rights issues, response status, and the systems of investees.

Initiatives for the Rights of Children

The Sumitomo Chemical Group focuses efforts not only on eliminating child labor in Japan and overseas but also on educational support regarding respecting the rights of children.

P.226 Communities

Respect for Human Rights

Looking Ahead

We at the Sumitomo Chemical Group will observe our Human Rights Policy and work together as one to continue our efforts led by the Human Rights Promotion Committee to promote respect for human rights.

Procurement

Basic Stance

Policy on Sustainable Procurement

The Sumitomo Chemical Group is committed to building mutually beneficial and sound relationships with business partners. In addition to ensuring fairness, equitability, and transparency in our transactions with business partners, we are promoting sustainable procurement activities throughout the supply chain with an emphasis on compliance and respecting human rights, which will encourage our partners to also engage in sustainability initiatives. Furthermore, Sumitomo Chemical's stance toward and policy on sustainable procurement is clarified in the Basic Procurement Principles and the Group Business Standards of Procurement, which provide guidelines for procurement operations for Group companies in Japan and overseas.

■ Basic Procurement Principles (Outline)

1. The Procurement Section shall strive to conduct procurement transactions on the basis of fair, equitable, transparent and free competition without involving personal interests or arbitrary considerations.
2. The Procurement Section shall strive to select suppliers to transact with in accordance with the most appropriate and economically rational methods and shall pursue the maintenance of sound business relationships with suppliers, aiming for mutual growth and development.
3. The Procurement Section shall strive to provide corporate services globally throughout the entire Group.
4. In its procurement, the Procurement Section shall give preference to those suppliers that are active in sustainability initiatives, with the aim of fulfilling its corporate social responsibilities and building sound relationships with suppliers.
5. The Procurement Section shall strive always to meet the quality requirements of Sumitomo Chemical's internal sections that request purchases of Goods and Services.
6. In performing Procurement Operations, the highest priority shall be given to safe and stable operations in order to realize zero-accident and zero-injury operations.
7. In performing Procurement Operations, the highest consideration shall be given to customer satisfaction.
8. The Procurement Section shall ensure the transparency of Procurement Operations.

Procurement

Sumitomo Chemical Group Policy for Responsible Procurement of Minerals / Raw Material (Established March 17, 2020)

Recognizing the principles set out in our Sumitomo Chemical Group Human Rights Policy, Sumitomo Chemical Group (Sumitomo Chemical Co., Ltd. and its group companies, hereafter "Sumitomo Chemical Group") defines those raw materials that involve a high risk of having a negative impact on human rights in the supply chain (including but not limited to Tantalum, Tin, Gold, Tungsten, Cobalt, Mica, Graphite, Pulps etc.) as high-risk raw materials ("HRRM"). Sumitomo Chemical Group recognizes the adverse impact against human rights which may be associated with mining, extracting, refining, manufacturing, trading, handling and/or importing/exporting HRRM, and sets out the following Policy for Responsible Procurement of Minerals/Raw Materials. Sumitomo Chemical Group will comply with this policy, and requests all of its suppliers to acknowledge the contents of this policy and comply with it.

Incorporating the essence of the standards set out in the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (the "OECD Guidance") with necessary adjustments, Sumitomo Chemical Group adopts the following 6-step framework in conducting due diligence in respect of HRRM:

1. Establish Strong Company Management Systems

Sumitomo Chemical Group will clearly communicate and explain to suppliers and to the public the contents of this policy, and appoint a senior executive and staff assigned to supply chain management of HRRM. Sumitomo Chemical Group will request HRRM suppliers to comply with this policy by abiding by the standard contract clause or commitment letter.

2. Identify and Assess Risks in the Supply Chain

Sumitomo Chemical Group will establish a system of controls and transparency over the supply chain of HRRM, and will periodically identify and assess risks of HRRM suppliers through an approach consistent with OECD Guidance Annex II. In identifying and assessing the risks, Sumitomo Chemical Group will (i) request HRRM suppliers to map its supply chain to origin and maintain a database of the same, and (ii) conduct additional due diligence procedures against the HRRM supplier, when red-flags of adverse impact on human-rights are discovered in its supply chain, with due attention to the geographical characteristics of conflict-affected and high-risk areas.

3. Design and Implement a Strategy to Respond to Identified Risks

Once risks are identified and mitigation measures are undertaken, the senior executive assigned to HRRM, will compile a risk management plan and will implement either of the following measures:

i) continuing trade throughout the course of measurable risk mitigation efforts;
ii) temporarily suspending trade while pursuing ongoing measurable risk mitigation efforts;
iii) disengaging with the HRRM supplier after failed attempts at mitigation, such as where lack of cooperation, refusal to follow improvement requests etc.

Sumitomo Chemical Group will implement the risk management plan, monitor and trace the risks and progress of risk mitigation efforts, report them to the assigned senior executive of HRRM, and keep record of the same for a designated period. Sumitomo Chemical Group will undertake additional assessments of the identified risks once there is change of circumstance.

4. Sumitomo Chemical Group will request HRRM suppliers who is in a position to more directly and effectively mitigate the adverse impact on human rights in the supply chain to undergo supply chain due diligence audits conducted by Sumitomo Chemical Group or by Sumitomo Chemical Group's designated independent third-party auditor.

5. Sumitomo Chemical Group will report the above HRRM related activities through our web site, annual report, sustainability data book etc. If required, Sumitomo Chemical Group will request HRRM suppliers to report its HRRM related activities periodically to Sumitomo Chemical Group, and to promptly report to Sumitomo Chemical Group any signs of adverse impact on human-rights discovered in their supply chain, and to follow any instructions of corrective measures by Sumitomo Chemical Group.

6. Sumitomo Chemical Group will support relevant industry initiatives in respect of HRRM and respond to changing situations flexibly.

Sumitomo Chemical Group requests all of its suppliers to develop and implement its own initiatives in accordance with the above 6-step framework, and to cause its upstream suppliers to do the same.

Procurement

Management System

In line with the policy on sustainable procurement, we formulate and implement plans related to sustainable procurement, share these plans with Group companies, and carry out these plans in cooperation with Business Sectors. Furthermore, Sumitomo Chemical's stance toward and policy on sustainable procurement is clarified in the Group Business Standards of Procurement, which provide guidelines for procurement operations for Group companies in Japan and overseas. We are promoting relevant initiatives across the entire Group.

Goals and Results

FY2021 Group-wide Initiatives

Main Initiatives	Details
Group purchasing information exchange meetings 2 times	Participating companies: 25 • Sustainability measures, including those related to human rights and the environment; Initiatives for high-risk raw materials; Shared information about BCPs
Company-wide procurement liaison meetings 2 times	Participants: Representatives responsible for the procurement of Business Sectors • Sustainability measures, including those related to human rights and the environment; Initiatives for high-risk raw materials; Shared information about BCPs
Procurement staff education	Participants: All procurement staff (including new employees and transferees) • Sustainability measures, including those related to human rights and the environment; Initiatives for high-risk raw materials

FY2021 Initiative for Suppliers

Main Initiatives	Details
Suppliers Dialogues 3 times	Participating companies: 32 (major suppliers of materials and equipment) • Gave introductions on sustainability initiatives and shared information regarding human rights (child labor, etc.) and occupational safety
Supplier Information Exchange Meeting 1 time	Participating companies: 26 (major raw material suppliers) • Regarding Scope 3*1 GHG emissions, we explain and request cooperation on quantitative SBTs*2 with our major suppliers*3 so they would set science-based GHG emission reduction targets by FY2024. • Provided briefings on and requested cooperation in sustainability initiatives (respect for human rights, including high-risk raw materials, environmental conservation, etc.), gave introductions on internal reporting systems, etc.
Evaluation of Established Suppliers (Sustainable Procurement Rate Survey)	Targeted companies: All established suppliers, who together account for the top 90% of the raw materials purchased Sustainable procurement rate*4: 91% (As of March 31, 2022)
Evaluation of New Suppliers	Due diligence rate for new suppliers: 100% Suppliers who were rated "good" and with whom business began: 100%
Audits	Number of times monitoring was conducted in conjunction with quality audits: 5 (Due to the pandemic, all audits were documentation audits. We confirmed that there were no problems on the sustainable procurement check sheets.)
Initiatives Related to High-Risk Raw Materials	We conduct due diligence in accordance with the Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials. For conflict minerals (gold, tantalum, tungsten, and tin), cobalt, and mica, we request they use the template*5 issued by the Responsible Minerals Initiative (RMI), and, for other high-risk raw materials, we request they use a document based on the RMI. We have already received replies from all current suppliers of raw materials, including these high-risk raw materials. <Reply collection status> • Conflict minerals, cobalt, and mica: 100% reply collection rate, 0% of suppliers have been determined to have a problem • Other high-risk raw materials: 100% reply collection rate, we are engaging with some suppliers who need additional confirmation
Human Rights Questionnaire	We conducted a survey of 10 major domestic suppliers and have collected responses from all of them. We also assess the status of initiatives on human rights.

*1 Emissions from the manufacturing and transportation of purchased raw materials
*2 Science Based Targets (SBTs): Greenhouse gas emission reduction targets set by companies for the next five to 15 years in line with levels sought by the Paris Agreement
*3 Covers suppliers accounting for 90% of greenhouse gas emissions from procured raw materials and other items based on weight.
*4 The percentage of Sumitomo Chemical Group Sustainable Procurement Check Sheets that were returned
*5 Conflict minerals (gold, tantalum, tungsten, tin): Conflict Minerals Reporting Template (CMRT); cobalt: Cobalt Reporting Template (CRT); mica: Mica Reporting Template (MRT)

Procurement

Examples of Initiatives

Sustainable Procurement Activities

Sumitomo Chemical has added a webpage about sustainable procurement to its Procurement Information page on its official website to inform more stakeholders of its sustainable procurement initiatives. The webpage features the *Sumitomo Chemical Group Sustainable Procurement Guidebook*, which is a code of conduct for our suppliers. Moreover, Sumitomo Chemical has formulated the *Sumitomo Chemical Group Sustainable Procurement Check Sheets* to enable suppliers to conduct self-evaluations regarding all items. Suppliers can now download the guidebook and check sheets and report the results of their self-evaluations.

Sumitomo Chemical Group Sustainable Procurement Check Sheets

0 Overall Promotion of Sustainable Procurement

The questionnaire begins with a confirmation of the company's performance regarding: clearly declaring the importance of sustainability as a business policy; designating an organization and manager responsible for sustainability promotion; publicly announcing the status of its sustainability promotion efforts; and deploying its own program regarding sustainability to suppliers.

Ⅰ Compliance with Laws and Ethics

Questions in this chapter focus on whether the company properly: ensures compliance with various business laws (including laws and regulations in Japan and overseas, such as REACH); prohibits impediments to free competition; prohibits abuse of a superior position; prohibits corruption and bribery; prohibits the offering and receiving of inappropriate profits and advantages; ensures respect for intellectual property; detects and prevents injustice promptly; and prevents the leakage of personal information as well as customer and third-party confidential information.

Ⅱ Human Rights and Labor

Questions in this chapter focus on whether the company properly: ensures respect for human rights; prohibits discrimination; regulates working hours; respects the rights to freedom of association; prohibits forced labor; prohibits child labor; and pays appropriate wages.

Ⅲ Accident Prevention and Occupational Health and Safety

Questions in this chapter focus on whether the company properly: ensures proper disaster and accident management; applies safety measures for equipment and instruments; promotes safety in the workplace; promotes hygiene in the workplace; and promotes health maintenance programs for employees.

Ⅳ Environmental Conservation

Questions in this chapter focus on whether the company properly: establishes and implements an environmental management system; controls hazardous chemicals in manufacturing; obtains environmental and government permits; minimizes environmental pollution (water, soil, air); promotes waste reduction; and promotes resource and energy saving by reducing, reusing, and recycling (3Rs).

Ⅴ Product Quality and Safety

Questions in this chapter focus on whether the company properly: establishes and implements a quality management system; controls hazardous chemicals in products; provides accurate information on products and services; and furnishes prior consultation on manufacturing process change and compliance with standards and specifications.

Sumitomo Chemical Group Sustainable Procurement Guidebook

https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/cp_csr_guidebook_e.pdf

Revised and retitled the *Sumitomo Chemical Group Supplier Code of Conduct* in August 2022 (Japanese Only)

https://www.sumitomo-chem.co.jp/sustainability/files/docs/suppliers_code_of_conduct_j.pdf

Sumitomo Chemical Group Sustainable Procurement Check Sheets

https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/cp_csr_check_list_e.pdf

Procurement

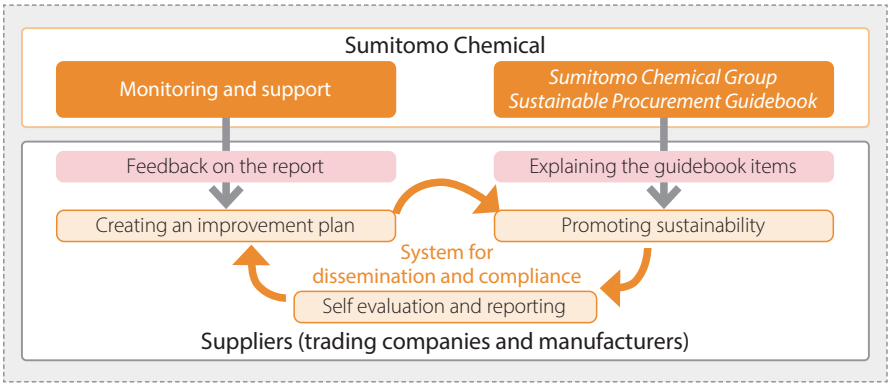
Promoting Sustainable Procurement throughout the Supply Chain

We have every new supplier gain a better understanding of Sumitomo Chemical's policies and stances through the *Sumitomo Chemical Group Sustainable Procurement Guidebook*. We also have them fill out and submit the *Sumitomo Chemical Group Sustainable Procurement Check Sheets*. This enables us to do our due diligence regarding their compliance status, and, upon confirmation of satisfactory evaluation results, we begin doing business with them. Following that, we regularly monitor their compliance status and strive to prioritize procurement from those suppliers who are working hard to ensure sustainable procurement. We manage the data from the monitoring and periodically assess the content.

For suppliers whose initiatives have been determined to be insufficient according to their replies to the sustainable procurement check sheets, we furnish feedback, such as requesting confirmation of improvement plans, to raise awareness of and cooperation in ensuring sustainable procurement. Furthermore, for suppliers who have not shown improvement over the long term regarding important initiatives related to human rights and other issues, we designate them high-risk suppliers and offer more focused feedback and monitoring.

In addition, we send out and collect the guidebook and check sheets from our main suppliers of raw materials. The collection status is managed as our sustainable procurement rate.

■ System for Promoting Sustainable Procurement throughout the Supply Chain



Initiatives Related to High-Risk Raw Materials

Regarding conflict minerals that have been identified as possibly funding inhumane armed groups in the Democratic Republic of the Congo (DRC) and its neighboring countries, as usual, under the Conflict-Free Procurement Policy, we confirm the minerals in the raw materials we procure, including gold, tantalum, tungsten, and tin, are not contributing to conflict (i.e. are conflict-free). We do this by finding the raw materials containing these substances from an internal database and periodically distributing and collecting CMRTs* to all suppliers of these raw materials.

If we determine there is a problem after confirming the results with the supplier, we take appropriate measures, which could be a request for improvement or the suspension of procurement of conflict minerals.

Going a step further in our efforts to avoid procuring conflict minerals, we formulated the Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials in March 2020. We define high-risk raw materials as those that involve a high risk of having a negative impact on human rights in the supply chain (including but not limited to Tantalum, Tin, Gold, Tungsten, Cobalt, Mica, Graphite, Pulps etc.). In line with the characteristics of each high-risk raw material, we promote initiatives aligned with the content of the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas (OECD Guidance). In line with this procurement policy, we designate high-risk raw materials and conduct due diligence.

* Conflict Minerals Reporting Template: A reporting template published by the Responsible Minerals Initiative (RMI)

P.173 **Respect for Human Rights:** Initiatives Related to High-Risk Raw Materials

Procurement

Promoting Sustainable Procurement throughout the Group

We periodically hold Group purchasing information exchange meetings that gather together responsible purchasing representatives from each Group company in Japan and overseas to discuss promoting sustainable procurement throughout the Group. In addition, to ensure smooth communication, we set up a website with the Group companies to reciprocally share information as we strive to promote and encourage sustainable procurement as a unified Group.

Supplier Information Exchange Meeting

Sumitomo Chemical regularly holds information exchange meetings with major suppliers and has introduced initiatives related to the sustainability of the Sumitomo Chemical Group. We aim to help realize a sustainable society throughout the supply chain by helping suppliers understand the Group's policies related to procurement activities.

Looking Ahead

In line with the Basic Principles for Promoting Sustainability, the Sumitomo Chemical Group will continue to strengthen cooperation with business partners and promote sustainability in the spirit of respecting human rights and ensuring compliance.

Human Resources Management

Basic Policy

Human resources are the most important management resource, and securing highly motivated and capable personnel is the foundation of business operations.

In addition, our business environment has become more complex and sophisticated due to the recent expansion of our business domains and advances in technological innovation. In these circumstances, it has become extremely important to secure personnel with broad knowledge and diverse skills, and to conduct training so that employees can maximize their abilities.

Against this backdrop, the Corporate Business Plan (FY2022–2024) sets forth one of its basic policies as promoting the securing and development of human resources from a long-term perspective and achieving sustainable growth through enhanced engagement.

Based on this policy, we are strengthening our recruitment capabilities dramatically and effectively promoting the current personnel and training systems based on the basic philosophy of "development and growth." We are also working to create an environment in which diverse personnel can work healthily and energetically.

Human Resources System Initiatives

Sumitomo Chemical engages with its employees through a human resource system that takes account of the performance individuals achieve in their roles, depending on the scale of their responsibilities, along with the abilities they employed and their actions in the process. The system enables those willing and capable employees to aspire to higher roles at an early stage, and to build their self-motivated desire to grow in their career process.

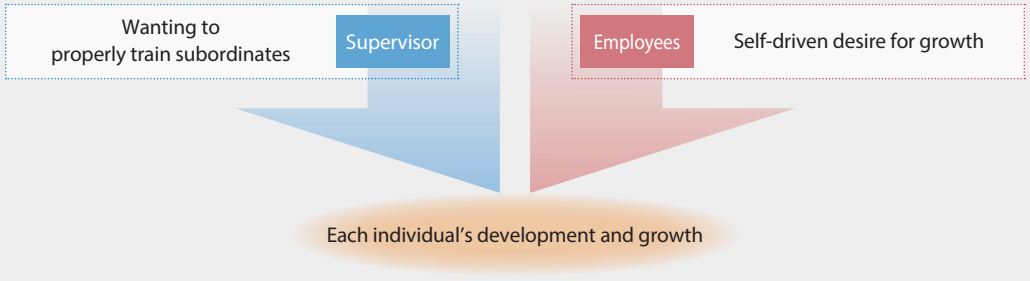
Accordingly, our annual performance evaluations are not limited to evaluating how well each employee fulfills their expected role and their achievements; it evaluates how well said employee demonstrates their ability and acquires the knowledge and skills needed for their role. The system thus encourages individual development and growth without overly focusing on short-term achievements.

Managers talk with all their subordinates on a regular basis to review their performance and objectives and to provide feedback on their behavioral advantages and areas for improvement. In the interviews, they also discuss future job expectations and career paths in an effort to increase their motivation and abilities.

Moreover, we have adopted a similar human resources system for managers at overseas Group companies as for Sumitomo Chemical's managerial employees. We are working to develop personnel on a global level and provide opportunities for advancement.

■ Philosophy and Aims of the Human Resources System

Taking on challenges	The system will enable motivated and skilled employees to take on the challenges of larger roles.
Providing meticulous training	The system will flexibly respond to employees' choice of work style and career and will support meticulous training tailored to each individual's ambitions and suitability.
Supporting employees' desire for growth	The system will furnish employees with clear cut workplace models and help them track their progress.



The Group will achieve sustainable growth through the growth of each individual.

Human Resources Management

Characteristics of Our HR Systems

(1) Career Development Field (CDF)

To encourage the development and growth of each employee amid a time of diversifying ideas about career trajectories, we have incorporated Career Development Fields (CDF, professional categories) into our HR systems. We decided to do this because we understand the importance of considering from the medium- to long-term perspective the details of placements and training in line with each employee's ability and suitability as well as based on their career goals. Planned placements and training are promoted in line with each employee's career goals, and employees are encouraged to take the reins when thinking about their careers.

■ CDF

Field X	A career in which the employee takes on a specified role, while also working on tasks that support the maintenance and development of Sumitomo Chemical's business over the medium- to long-term.
Field Y	A career in which the employee works on tasks that contribute to the development of business as a professional, within a role with a defined scope.
Field Z	A career in which the employee works on a variety of tasks supporting things like the development of new technology and the increasing sophistication and complexity of business.

(2) Careers for Specialists

We offer more than the conventional path, which assumes a largely vertical progression in rank from manager to general manager, and so on. To reflect the need for complex and advanced knowledge in operational and R&D fields, we have introduced a mechanism that provides appropriate compensation so that personnel with a high degree of specialization can unleash their full potential and rack up accomplishments.

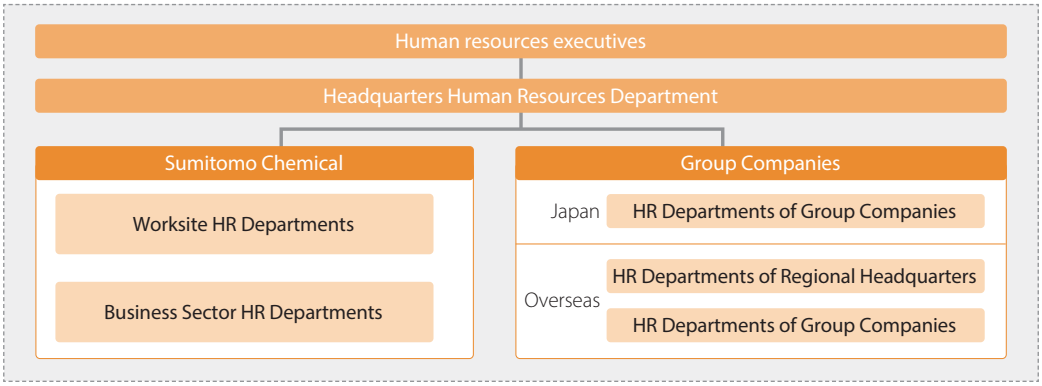
■ Careers for Specialists

Associates	Fellows
Associates refers to those who have particularly outstanding expert knowledge or capabilities, who are hard to replace in specific fields, and who can be expected to continue to make significant contributions in their field using that expertise	Fellows refers to those who, among the Sumitomo Chemical researchers who have produced particularly outstanding research results on the basis of their high-level expertise, and who are also recognized for their achievements outside the company, are expected to contribute significantly to the research activities of Sumitomo Chemical in the future

Management System

Under the direction of human resources executives, the Headquarters Human Resources Department works closely with the HR departments of worksites, business sectors, regional headquarters, and Group companies in Japan and overseas to promote and roll out various programs. In addition, employees are rotated through job assignments based on each person's specific training plans while sharing information with the aforementioned HR departments and other departments with corporate functions, such as research, production, and administration.

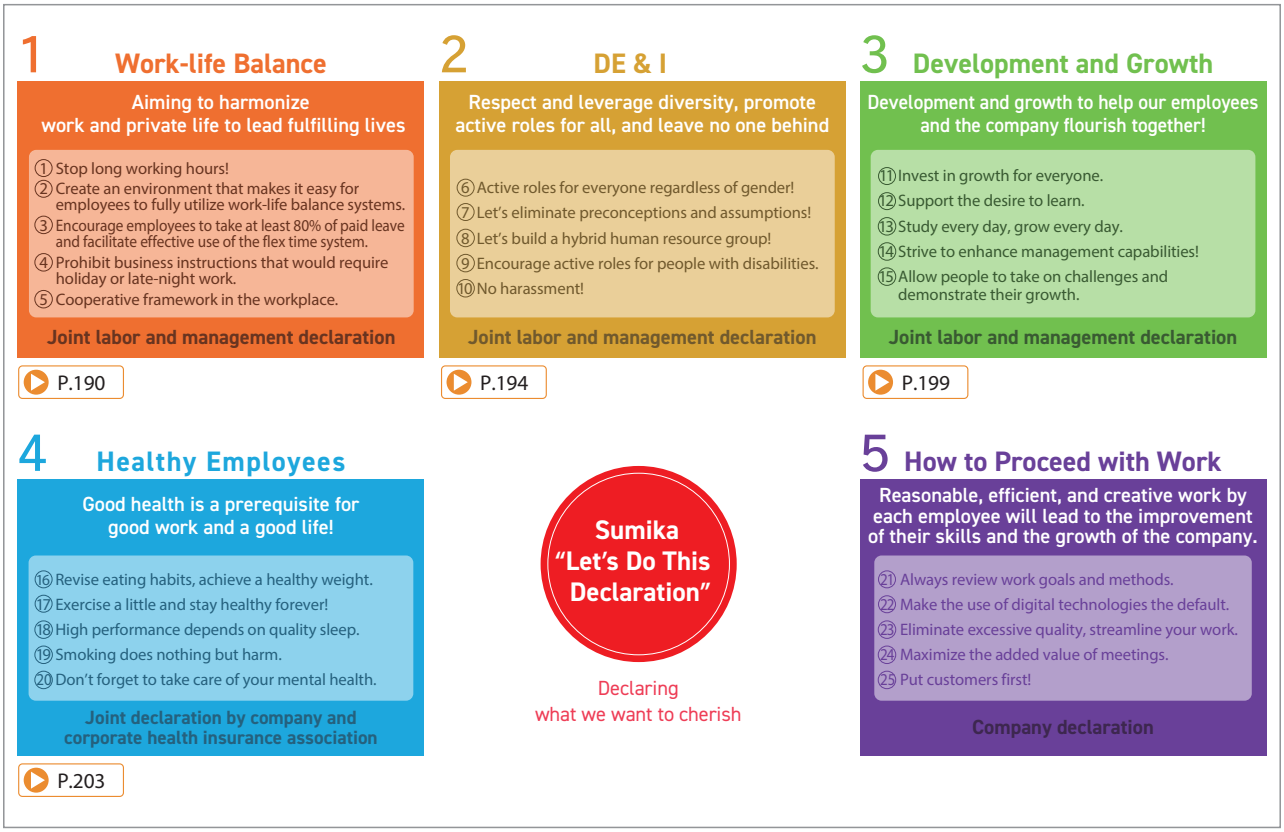
■ Human Resources Management System



Human Resources Management

Sumika "Let's Do This Declaration"

We have set forth a number of important values and views to help our employees find significance and feel pride in working at Sumitomo Chemical in the Sumika "Let's Do This Declaration," and we are promoting this initiative so that they can lead healthy and fulfilling lives as employees, both mentally and physically. The initiative is divided into a series of five steps, with each step further broken down into five action items, and we are promoting various measures to support progress. In addition, we established a labor-management committee to promote the Sumika "Let's Do This Declaration" to ensure that information is shared and opinions are exchanged on the progress of initiatives and their direction.



Human Resources Management

Action Items

<1 Work-Life Balance>

We are fostering a work environment where it is easy to work and ensuring each employee feels a deeper sense of fulfillment through work-life balance.

① **Stop long working hours!**
As a general rule, we aim to eliminate long working hours (on average over 45 hours/month worked after regular hours and on weekends and holidays).

② **Create an environment that makes it easy for employees to fully utilize work-life balance systems.**
We are working to encourage employees to fully utilize systems for childcare, caregiving, illness treatment, and more, and to create an environment that makes it easy to use those systems.

③ **Encourage employees to take at least 80% of paid leave and facilitate effective use of flex time system.**
We aim for employees to take at least 80% of paid leave. We also facilitate the effective use of the flextime system for afternoon work (no core time).

④ **Prohibit business instructions that would require holiday or late-night work.**
As a general rule, we do not delegate or carry out tasks that are predicated on working late-night overtime or on days off, such as an email asking for a reply on a day off.

⑤ **Cooperative framework in the workplace.**
Supervisors manage subordinates in a way that burdens are not distributed unevenly. Employees carry out tasks with a genuine feeling of cooperation and support in close communication with each other.

<2 Diversity, Equity, and Inclusion (DE&I)>

Through DE&I, we are working to enable employees and the Company to develop.

⑥ **Active roles for everyone regardless of gender!**
We will ensure anyone can thrive in the workplace and enhance employee capabilities regardless of gender and age.

Relevant KPI: Women accounting for at least 10% of positions equivalent to manager or above by the end of Fiscal 2022 (April 2022: 7.0%)

⑦ **Let's eliminate preconceptions and assumptions!**
We will eliminate assumptions about fixed division of roles and unconscious bias, thinking you have to do something "because I'm a man/woman."

Relevant KPI: At least 70% of male employees taking cessation from work for childcare by the end of Fiscal 2022 (FY2021: 73.5%)

⑧ **Let's build a hybrid human resource group!**
We will flexibly incorporate and leverage the different abilities and ideas of diverse human resources to help invigorate the workplace and grow the organization.

⑨ **Encourage active roles for people with disabilities.**
The Company and Sumika Partners Co., Ltd. have come together to provide an environment where people with disabilities can thrive. Everyone in the workplace offers support as fellow workers.

⑩ **No harassment!**
Aiming for complete eradication, we will not tolerate any form of harassment, including power harassment, sexual harassment, maternity harassment, paternity harassment, or SOGI* harassment.

* SOGI harassment: harassment related to sexual orientation and gender identity

Human Resources Management

<3 Development and Growth>

Through development and growth, we are working to enable employees and the Company to develop.

⑪ Invest in growth for everyone.

We will continue to invest 300,000 yen per person* in education for the growth of our employees, who constitute our human capital.
* Direct costs, off-the-job training opportunity costs, on-the-job opportunity costs

⑫ Support the desire to learn.

We offer a learning platform that enables employees to learn and grow for themselves regardless of when they joined the Company or their age.

Relevant KPI	50% or more of all employees taking self-selected training programs by fiscal 2024

⑬ Study every day, grow every day.

We aim for 10% of work time to be used for training and work study to cultivate more professionals.

⑭ Strive to enhance management capabilities!

We strive to enhance management capabilities, with managerial employees learning every day.
Target 1: 800 or more people taking training courses to enhance management capabilities per year
Target 2: Receive 80% or higher positive responses to the following questions in the employee opinion survey
- Supervisors clearly point out issues regarding the achievement of workplace targets.
- Supervisors proactively guide and advise subordinates on how to enhance their capabilities.

⑮ Allow people to take on challenges and demonstrate their growth.

We allow subordinates looking to grow to take on challenges, for example, to try work designated for personnel one rank above their current rank. Subordinates give their all to tackle these new challenges.

<4 Healthcare>

Under the slogan of "Good health is a prerequisite for good work and a good life!" we are undertaking specific action plans in the five fields of meals, exercise, sleep, quitting smoking, and mental health.

⑯ Revise eating habits, achieve a healthy weight.

To prevent lifestyle diseases, all employees should maintain an appropriate BMI (18.5–24.9).
- 100% of employees received specified health guidance and cured their metabolic syndrome through careful guidance
- Introduced nutritionally balanced dishes at the employee cafeteria

⑰ Exercise a little and stay healthy forever!

Use down time to exercise regularly every day.
- Establish walking habits (10,000 steps per day)
- Enhance exercise and training environments
- Everyone should work out together after lunch.

⑱ High performance depends on quality sleep.

Improve the quality of your sleep to ensure energy for the next day.
- Implementing sleep improvement programs.
- Thoroughly practice the dos and don'ts of sleep improvement

⑲ Smoking does nothing but harm.

We ban smoking for the health of ourselves and those around us.
- As a general rule, smoking is banned during work hours and on the Company's premises (including on business trips).
- Participate in programs to support smoking cessation

⑳ Don't forget to take care of your mental health.

Fostering fuller workplace communication and eliminating stress in your own way.
- Supervisors and subordinates should directly communicate with each other at least once a day
- Practice mindfulness 10 minutes per day

Human Resources Management

<5 Initiative to Enhance Productivity>

We are upgrading infrastructure, for example, introducing the new personnel information integration solution called SUMIKA HR-BOX to enhance productivity, and are promoting rational, efficient, and creative work through the use of digital and other tools.

㉑ Always review work goals and methods.

Do not rely on old ways of thinking. Constantly think of methodologies aligned with this era and work that is currently in demand.
Target 1: Reduce current workload by 10%
Target 2: Receive 80% or higher positive responses to the following questions in the employee opinion survey
In my workplace, I can say anything about work without being conscious of my rank, age, gender, or other characteristic

㉒ Make the use of digital technologies the default.

Everyone in the Company, from top management to employees, utilizes digital technologies to increase the time available for creative work.
Target 1: Everyone takes basic digital education courses
Target 2: Go paperless (to under 20 million sheets)

㉓ Eliminate excessive quality, streamline your work.

Do not assume too much. Do not hesitate to confirm your partners' intentions and clarify communications in order to stay on track and eliminate excessive quality.
- Superiors clearly point out "what, why, and by when." Subordinates confirm.
- Report when 30% done.

㉔ Maximize the added value of meetings.

Meetings are for discussion and decision making.
- Target halving the number of meetings and attendees as well as their duration compared with FY2019

㉕ Put customers first!

Aim to increase by 50% the amount of time spent on customer communication and assessing social needs.
Through action items ㉑ to ㉔, streamline the in-house use of time and labor as much as possible.

Communication with Employees

Sumitomo Chemical and the Sumitomo Chemical Labor Union are working together to solve various issues within a labor-management relationship based on mutual understanding and trust.

We have concluded a labor agreement covering a wide range of topics, including union members' concerns about human resources, work duties, compensation, disaster compensation, welfare facilities, safety and health, labor-management meetings, and collective bargaining. Based on this agreement, as a place for labor and management representatives to exchange opinions, we hold central labor-management meetings twice a year as well as regional labor-management meetings at each worksite twice a year. In addition, we have established Safety and Health Committees at each worksite to ensure and improve the safety and health of union members.

Furthermore, the Company and labor union have concluded a union shop agreement, ensuring that 100% of general employees at the Company are enrolled in the labor union.

Human Resources Management

<Work-Life Balance>

Basic Policy

We aim to ensure that each employee feels greater motivation and a deeper sense of fulfillment while promoting a better work-life balance. In addition, we are working to foster a workplace environment where it is easy to work, mainly by introducing a flextime program, utilizing telework, and establishing daycare facilities at worksites.

Management System

In 2010, Sumitomo Chemical established a labor-management committee to promote DE&I as well as work-life balance. To this end, the committee has shared information and exchanged opinions in addition to checking on the progress of efforts undertaken by labor and by management.

From 2020, we delegated these functions to the labor-management committee for promoting the Sumika "Let's Do This Declaration" as we strive to be more constructive.

Targets and Results / Examples of Initiatives

Formulation of the Action Plan to Reform Workstyles

As an action plan to reform workstyles, Sumitomo Chemical established key performance indicators (KPIs) along with three main targets: ① correcting long working hours, ② encouraging employees to take paid annual leave, and ③ promoting flexible workstyles. We then formulated out the following measures to achieve these targets.

Human Resources Management

Action Plan to Reform Workstyles

	KPI	Measures
① Correct Long Working Hours	Aim to eliminate long working hours as a general rule (on average over 45 hours/month worked after regular hours and on weekends and holidays) from fiscal 2020.	**A. Employ the Internet of Things (IoT) to reform workstyles and revolutionize operations** Digitize plant-related operational processes and data, make office operations more efficient by actively using cloud sourcing and the latest technologies (including AI and sensors), etc. **B. Improve productivity by promoting a better work-life balance** Regularly convene the Labor-Management Committee consisting of labor and management representatives, take various measures to improve productivity in each workplace, hold lectures to promote better work-life balance, etc. **C. Promote initiatives for the Sumika "Let's Do This Declaration"** We declared details related to work-life balance in the Sumika "Let's Do This Declaration," which is an initiative in which we proclaim those values and views that are of importance to us as a company. In addition, we have positioned the elimination of long working hours as an action item.
② Encourage Employees to Take Paid Annual Leave	Realize an average of 80% of paid leave taken annually from fiscal 2020.	**A. Create an annual leave chart that covers several fiscal years** Every year create an annual leave chart that covers several fiscal years to make it easier to plan far into the future and help encourage employees to take paid leave. **B. Encourage employees to take paid leave** • Encourage employees to take paid leave during Golden Week and other similar periods • Encourage employees to create four-day weekends by adding days of paid leave to either side of weekends and promote taking time off in the September–November period • Encourage senior employees to take paid leave **C. Continue to systematically provide paid leave** Systematically provide five paid-leave days every year (does not include statutory leave) **D. Promote initiatives under the Sumika "Let's Do This Declaration"** We declared details related to work-life balance in the Sumika "Let's Do This Declaration," which is an initiative in which we proclaim those values and views that are of importance to us as a company. In addition, we have positioned the use of 80% of paid leave as an action item.
③ Promote Flexible Workstyles	By the end of 2022, achieve the following targets. • Realize at least 70% of male employees taking cessation from work for childcare. • Regarding the below questions in the employee awareness survey, achieve at least 80% affirmative responses for each question. (1) Are the programs and working environment at the Company conducive to easily working after giving birth, raising children, or caregiving? (2) Is the general consensus in your workplace that both men and women can easily take paid or unpaid leave for childcare or caregiving and use the reduced working-hour system?	**A. Issue PRs and raise awareness about programs** Continually issue PRs and raise awareness about various programs that enable employees to flexibly adjust for their individual needs, including those related to life events like childcare and caregiving. In addition, encourage male employees with newborns to take cessation from work for childcare. **B. Foster an environment that allows the realization of flexible workstyles** By taking the measures outlined above in the action plan for ① Correct Long Working Hours, create an environment where it is easy to improve the productivity of employees and their workplaces and to realize flexible workstyles. **C. Promote initiatives under the Sumika "Let's Do This Declaration"** We declared details related to work-life balance, DE&I in the Sumika "Let's Do This Declaration," which is an initiative in which we proclaim those values and views that are of importance to us as a company. In addition, we have as an action item creating an environment that makes it easy for employees to fully utilize work-life balance systems, facilitating the effective use of the flex time system, establishing a cooperative framework in the workplace, and eliminating unconscious bias (including the assumption of fixed roles for men and women).

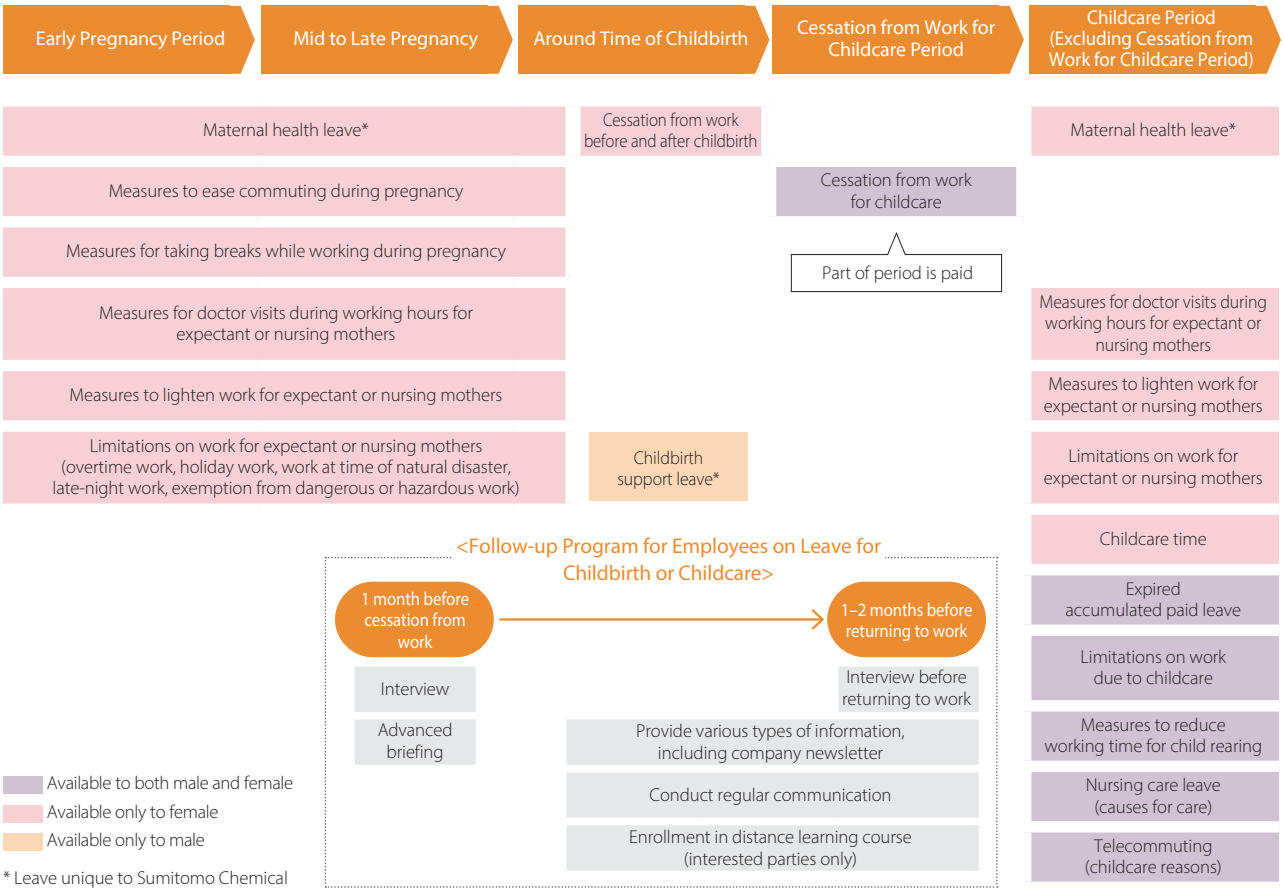
Sumitomo Chemical is taking the following actions with regard to the aforementioned target of ① Correct Long Working Hours.

(1)	From April 2017, we reduced the upper limit on overtime work to 80 hours per month and 720 hours per year.
(2)	Regarding the occupational physician interviews for people working long hours mandated by the Industrial Safety and Health Act, we established and are enforcing our own guidelines, which are harsher than the law, requiring interviews for people who work 70 hours or more of overtime in one month or 150 hours or more in a three-month period
(3)	From March 2018, we established an even more appropriate work management system by displaying computer logon and logoff times when reporting work hours in addition to the existing system for reporting work hours.

Human Resources Management

★: Assured by an independent assurance provider

Systems and Measures for Better Work-Life Balance and for Use at Time of Pregnancy, Childbirth and Childcare



Results of Systems for Work-Life Balance (Sumitomo Chemical)

(No. of people)

	System/Measure		FY2019	FY2020	FY2021
Childcare/Nursing Support	Cessation from work for childcare	Total	420	476	524★
		Male	315	374	427★
		Female	105	102	97★
		Percentage of men*1	44.7	63.8	73.5
	Cessation from work for nursing care		2	4	1
	Nursing care leave		181	133	156
	Childbirth support leave		194	171	174
	Maternal health leave		55	41	44
	Expired accumulated paid leave*2		132	136	179
	Reduced working hours system		152	159	179
	Telecommuting*3		31	41	131
	Reemployment system*4		7	6	4
	In-house childcare facilities*5		156(113)	136(101)	125(88)
	Mutual aid association support money for childcare*6		241	112	116
Other	Suspension from work for special reasons for employees accompanying spouses going on overseas transfer*7		4	2	1
	Employee awareness survey*8		Conduct	—	—

Note: Employee numbers do not include temporary employees, part-time staff, or dispatch employees.

*1 The percentage is the number of people who have taken cessation from work for childcare divided by the number of male employees who have had children in the relevant period.
*2 Only for childcare and nursing care
*3 Number certified in each fiscal year (for childcare, nursing care, pregnancy, and other reasons that make coming into work more difficult)
*4 Number registered as of the end of each fiscal year
*5 Number of users on April 1 each fiscal year. Includes users other than Sumitomo Chemical. The figures in parentheses are the number of Sumitomo Chemical users.
*6 Aggregate number of people at end of each fiscal year
*7 Number of applicants as of the end of each fiscal year
*8 Conducted once every three years (slated to be conducted once every two years starting from 2022)

Human Resources Management

Employee Awareness Survey

Sumitomo Chemical conducts an employee awareness survey that covers work, the working environment, career values, diversity and inclusion, and work-life balance with the principle aim of grasping the current situation and uncovering issues in order to enhance work environments and create more satisfying workplaces. Using the results of this survey, we promote measures to further increase people's desire to work at the Company.

2022 Employee Awareness Survey

Total of five points. Four points and above is a high rating, and many employees were affirmative in their awareness.

Item	Average employee rating
I am motivated to grow on my own using digital technologies.	4.0
The workplace culture allows people to easily go home.	4.1
The working environment is conducive to easily working while raising children or caregiving.	4.0
Going forward, I want to work at the Company.	4.1
In my workplace, there is no discrimination based on gender, age, birthplace, or nationality.	4.0

Daycare Facilities at Worksites

With support from the Company, we encourage the use of these facilities by setting a daycare fee that is lower than those of the municipalities. To make it easy for parents to accompany children to the facilities, we consider the commuting method depending on the location, such as allowing employees to commute using their private vehicles in special cases.

Support for Childbirth and Childcare

For employees to achieve work-life balance, Sumitomo Chemical operates generous systems, for example, it offers a system that allows for a period far longer than is legally required for cessation from work to provide childcare (up to 3 years, 11 months) and a system that offers male employees leave to support their spouses during childbirth.

In addition, to support employees' balance of childcare and work, the health insurance association and mutual aid association provide various forms of monetary support for childbirth and childcare, subsidies for home aides, and other help.

Kurumin Mark

In September 2015, Sumitomo Chemical was certified for the third time as a company that supports childcare and received the next-generation Kurumin certification mark. Under this system, business operators who successfully carry out action plans based on the Act on Advancement of Measures to Support Raising Next-Generation Children and meet all the certification criteria receive certification from the Minister of Health, Labour and Welfare.

This certification was in recognition of our third round of initiatives covering the period between June 2012 and March 2015. The first certification covered the period between April 2005 and May 2007, and the second one covered the period between June 2007 and May 2012. The Company was commended for its initiatives to help promote work-life balance, such as expanding in-house childcare facilities and encouraging employees to take various forms of leave. (We are currently applying for our fourth certification.)

Next-generation Kurumin certification mark

Human Resources Management

<Diversity, Equity, and Inclusion (DE&I)>

Basic Policy

Sumitomo Chemical has raised "promotion of diversity, equity, and inclusion (DE&I)" as one of the material issues to be addressed as management priorities based on the Basic Principles for Promoting Sustainability. We have established a Group-wide basic philosophy related to DE&I and are promoting measures in line with the situation of each Group company.

Group Diversity, Equity, and Inclusion Policy

We will promote diversity, equity, and inclusion across the Sumitomo Chemical Group. We understand that a variety of ideas and values among our employees represents a vital resource that forms the foundation of the Sumitomo Chemical Group's competitiveness. In order to create continuous new value, we will build and enable an inclusive organizational culture that allows us to respect the individuality of each employee and embrace diversity to empower employees in an environment of mutual and close communication.

We are promoting various initiatives to prevent workplace discrimination and harassment and to ensure that people of all different backgrounds can thrive.

P.165 Respect for Human Rights

P.19 Key Performance Indicator (KPI) for Material Issues

Management System

For management systems for promoting DE&I, refer to the management systems for work-life balance.

P.190 Work-Life Balance: Management System

Targets and Results

To promote DE&I, the Group set specific KPIs centered on basic principles related to DE&I for around 100 of the major Group companies. Moreover, when setting the KPIs, we established the following three points as Critical Success Factors for the promotion of DE&I.

◆ Critical Success Factors (CSFs)

(1) Employ and develop diverse human resources, including those at senior management level
(2) Implement measures to empower diverse human resources
(3) Enhance diversity and inclusion awareness among managers and employees at all levels, and implement measures to build an inclusive culture that empowers employees

Human Resources Management

Sumitomo Chemical (Non-Consolidated) KPIs

The Company aims to achieve the targets below during fiscal 2022:

1. Have women in at least 10% of positions equivalent to managers or above (April 2022: 7.0%)
2. At least 70% of male employees taking cessation from work for childcare (FY2021: 73.5%)
3. For employee opinion survey statements below, achieve an affirmative response rate of 80% or more
   (1) The Company provides programs and a workplace environment that make it easy to combine work with childbirth, parenting, or caring responsibilities (2022: 77.7%)
   (2) The atmosphere in the workplace makes it easy for both men and women to use the programs allowing leave or days off, or reduced working hours, for parenting or caring purposes (2022: 75.1%)
   (3) The Company enables female employees to demonstrate their full potential (2022: 54.2%)

Note: Figures in parentheses are actual results.

Progress of Group companies in Japan and overseas in setting KPIs

Many of the KPIs set by Group companies are related to the active promotion and empowerment of women, work-life balance, and diversity regarding nationality, racial background, and age. Going forward, we will continue working with Group companies to promote initiatives aimed at achieving these KPIs.

https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/kpi_diver_group.pdf

Examples of Initiatives

Promoting the Active Advancement of Women

We have focused on promoting the active advancement of women as a part of our DE&I promotion efforts. We are actively taking measures to create an environment where even more women can thrive. Sumitomo Chemical has outlined the following targets in line with the Act on Promotion of Women's Participation and Advancement in the Workplace and is implementing the specific initiatives detailed below.

Sumitomo Chemical Co., Ltd. Action Plan

1. Plan period:
   From April 1, 2020 to March 31, 2023

2. Targets, initiative details, and implementation period

Target 1 Women accounting for at least 10% of positions equivalent to manager or above

<Initiative Details>

- Dispatching employees mainly to training programs held by outside groups (since fiscal 2007)
  Regularly dispatch employees mainly to training programs held by outside groups with the purpose of career building, enhancing knowledge and skills, and forming networks with outside groups. (Several employees per year as a general rule.)
  Eligible employees: Young female employees

- Internal lectures to help promote DE&I (since fiscal 2013)
  We hold lectures related to the significance of DE&I and the importance of providing growth opportunities through operations.
  Eligible employees: All employees

Human Resources Management

• Diversity management training (since fiscal 2019)
We hold diversity management training that helps us practice diversity management (leadership, human relations skills) and comprehend unconscious bias.
Eligible employees: Managers and team leaders

• E-learning related to unconscious bias (since fiscal 2021)
We hold e-learning training with the purpose of raising awareness and recognition related to overall unconscious bias.
Eligible employees: All employees

• Implement initiatives for the Sumika "Let's Do This Declaration" (since fiscal 2019)
We have positioned promoting the active advancement of women and eliminating unconscious bias as an action item in the Sumika "Let's Do This Declaration," in which we proclaim those values and views of importance to us as a company. To this end, we implement various relevant initiatives.

Target 2 At least 70% of male employees taking cessation from work for childcare

<Initiative Details>

• Foster an environment that allows the realization of flexible workstyles (continual implementation)
We foster an environment that allows the realization of flexible workstyles and are further improving the productivity of workplaces and people by realizing a workstyle transformation and operational revolution that employs IoT and promotes work-life balance.

• Release PRs and raise awareness of programs (continual implementation)
We continually release PRs and raise awareness of the Company's various programs designed to flexibly respond to individual situations and circumstances, such as the need to engage in childcare or caregiving due to life events. In addition, we recommend male employees with newborn children to take work cessation for childcare.

• Take measures to promote use of programs (continual implementation)
(1) Through labor-management committee meetings and other meetings, we determine specific user needs and ways to improve various programs. We then use this information to help craft and implement measures to promote greater use of the programs.
(2) As an action item in the Sumika "Let's Do This Declaration," in which we proclaim those values and views of importance to us as a company, we aim to foster a work environment that makes it is easy for all employees to fully use work-life balance programs, including male employees to take cessation for childcare, effectively use the flextime program, and establish a cooperation system in the workplace. To this end, we have implemented various relevant initiatives.

Internal Lecture Helping Promote DE&I

Between 2019 and 2021, former Vice Minister of Health, Labour and Welfare Atsuko Muraki presented internal lectures on the theme diversity and inclusion. The lectures were for a wide range of people, including upper managers, workplace managers (general managers, manager level employees), and female employees. At the lectures, she spoke about the importance of accepting diverse human resources in the workplace, including women, people with disabilities, seniors, and foreign nationals. She also delivered a message aimed at further promoting DE&I.

Diversity Management Training

For workplace managers (manager level employees), who play an essential role in promoting DE&I in the workplace, we conduct training that provides them with necessary management skills in this area. Content includes the management qualities and skills needed to bring together diverse personnel and to foster teamwork and achieve goals as well as how to influence organizational performance.

Human Resources Management

Encouraging Male Employees to Take Childcare Leave

As a general rule, male employees who have had children plan to take at least two weeks of childcare leave in total and submit plans for such leave. By default, the application assumes that eligible employees will take the childcare leave they are offered; should they decide not to take it, they must state the reason why on the application. Through these initiatives, the fiscal 2021 result was 73.5%, achieving the KPI of "At least 70% of male employees taking cessation from work for childcare."

Joining the Ikuboss Corporate Alliance

To support male employees' active participation in childcare, Sumitomo Chemical develops ikubosses.* to support male employees' active participation in childcare. We are actively working to establish workplace environments where employees easily balance work and private life.

* "Ikuboss" refers to a superior (manager level, including women) who gets results and enjoys their work and private life while supporting subordinates' careers and lives.

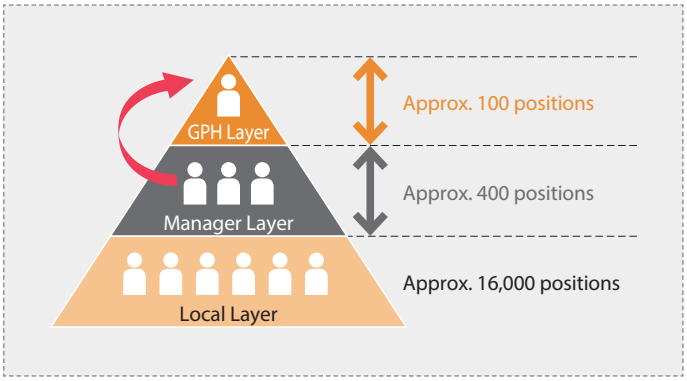
Hiring Personnel with Diverse Skill Sets and Qualities

To secure diverse personnel who support the sustainable growth of the Sumitomo Chemical Group, we encourage the hiring of foreign nationals who have studied abroad in Japan, experienced professionals, and personnel who possess advanced expertise in specific fields. In addition, we conduct proactive hiring activities in science major fields with a low percentage of female students and are working to raise the percentage of female employees hired.

Promoting the Utilization and Advancement of Global Personnel

To enhance personnel who support the global business development of each Group company, Sumitomo Chemical has introduced a personnel system common to Sumitomo Chemical managerial employees for managers at overseas Group companies. In addition, we actively hire local employees for major positions at overseas Group companies and appoint global position holders (GPHs) as core personnel for the Group, providing them with opportunities for advancement and personnel training that include learning about our Corporate Philosophy.

■ Overseas Human Resources Pipeline
(Local employees at overseas Group companies)



Activities Related to the Women's Empowerment Principles (WEPs)

Sumitomo Chemical has signed on to the "Women's Empowerment Principles" (WEPs) and, in part through the activities of the Global Compact Network Japan's (GCNJ (UNGC's local network)) WEPs Subcommittee, proactively works to promote wide acceptance of these principles and raise the bar for gender equality in Japanese society.

P.45 Our WEPs Activities

Human Resources Management

★: Assured by an independent assurance provider

Promoting the Hiring of Persons with Disabilities

To help realize a society where the employment of persons with disabilities is normalized, Sumitomo Chemical works to hire such individuals. In August 2017, we established Sumika Partners Co., Ltd.* to support the increased participation of persons with disabilities in society and to provide employment opportunities to persons with disabilities who want to work. This company actively hires persons with intellectual and mental disabilities. It has established a support system to enable employees with disabilities to thrive at work in their own way, such as by assigning one leader for every five persons with disabilities.

Going forward, we will continue working with Sumika Partners to provide an environment where persons with disabilities can thrive.

* In March 1, 2018, the company acquired certification from the Minister of Health, Labour and Welfare as a special subsidiary based on the Handicapped Persons' Employment Promotion Act.

Sumika Partners Co., Ltd. (Japanese only)

https://www.sumika-partners.co.jp/

Achievements in DE&I (Sumitomo Chemical)

Name	Concept	FY2019	FY2020	FY2021
Number of women in positions equivalent to manager or above*1	In order to promote the success of female employees, Sumitomo Chemical sets quantitative targets regarding the ratio of women in positions equivalent to sectional manager or above and systematically promotes female employees.	99	113	123★
Percentage of women in positions equivalent to sectional manager or above (%)*1		5.2	5.8	6.3★
Employment rate for people with disabilities (%)*2	Sumika Partners Co., Ltd., a special subsidiary, began operations in April 2018, and we are working to expand employment opportunities for persons with disabilities who are motivated to work, including at Group companies in Japan that have received approval as special affiliated companies.	2.41	2.56	2.56★
Reemployment of retiree rate (%)*3	Sumitomo Chemical has established a retiree reemployment system that enables a variety of work styles while appropriately reflecting the motivation and abilities of each person.	89.0	95.0	91.2

Note: Results include staff assigned to other companies but do not include staff assigned from other companies.

*1 As of April 1 of each fiscal year

*2 As of June 1 of each fiscal year
Group companies that have received approval as special affiliated companies:
FY2019: Group companies in Japan: 0
FY2020: Group companies in Japan: 4
FY2021: Group companies in Japan: 6

*3 As of March 31 of each fiscal year

Equal Pay for Equal Work

In line with the main purpose of the revised Part-time and Fixed-term Employment Act and the Worker Dispatching Act—ensuring equal pay for equal work—we revised the compensation for part-time employees, fixed-term employees, and employees dispatched to the Company. Going forward, we will provide explanations to eligible employees upon demand.

Human Resources Management

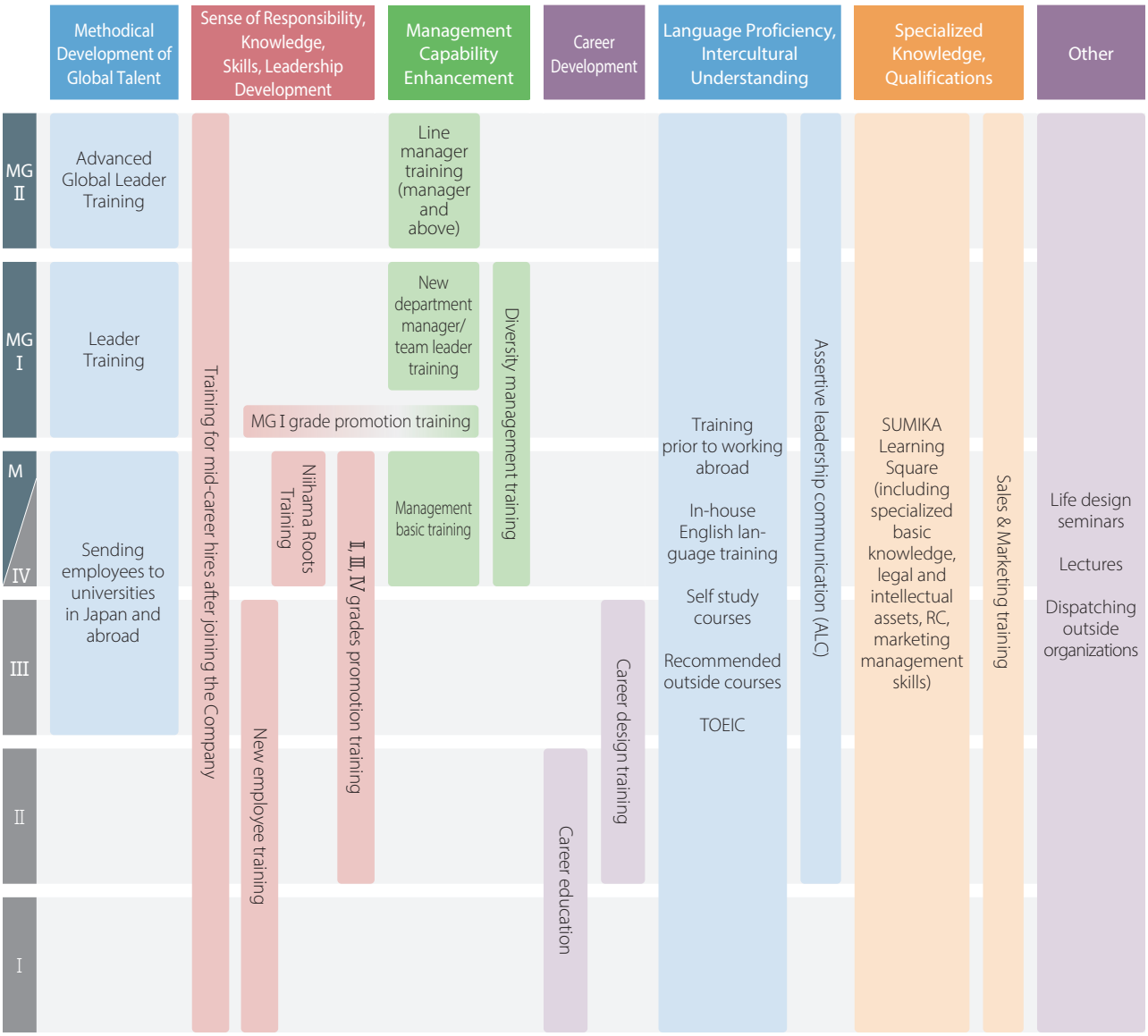
<Human Resources Development and Growth>

Basic Policy

We are implementing various training programs and measures for different purposes and employee classes to realize our current human resources system, the basic philosophy of which is "development and growth."

Specifically, we are developing all motivated and skilled employees and enhancing their capabilities by upgrading our training system in a "stepwise" manner in line with our goals. Education includes class-based training aligned with positions and roles, management skills enhancement training for managers, and programs to enhance language skills appropriate to global business development.

■ Organization of Training Programs



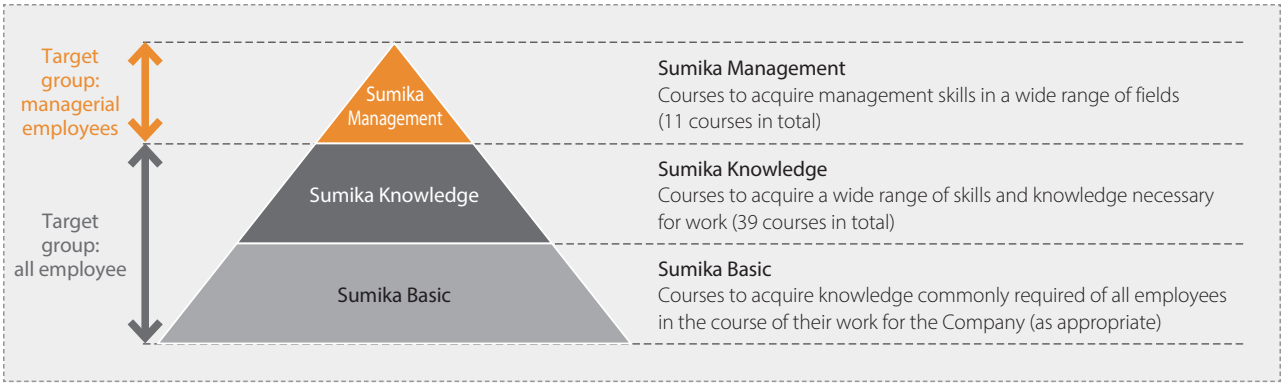
Note: The Company conducts in-house training courses in the areas of compliance, human rights, sustainability, and health maintenance and improvement

Human Resources Management

Targets and Results / Examples of Initiatives

From FY2022, we have been establishing a learning platform called the SUMIKA Learning Square to enable all employees to update their knowledge and skills (reskilling) as and when necessary, regardless of their age, year of employment, or current job title, thereby supporting autonomous and voluntary learning.

SUMIKA Learning Square



Moreover, in recent years, in addition to the aforementioned training systems and programs, to support the independent career building of all motivated and skilled employees, we are focusing on online programs that enable learning on smartphones and PCs with the slogan "whenever, wherever, and however many times."

Specifically, we offer a broad range of content open to all employees, including a comprehensive MBA curriculum spanning business basics to practical application, DX skills training, leadership training programs, an online language learning program for English and eight other languages, an online English business writing course, and other programs. We are also working to raise the level of and strengthen the knowledge, skills, and language abilities of employees in global business development.

KPI

50% or more of all employees taking self-selected training programs by FY2024

Investment in Training (Sumitomo Chemical)

FY2021 Results	Target
Approx. **340,000** yen/year per person	300,000 yen/year per person or more continuously

Time Spent on Training (Sumitomo Chemical)

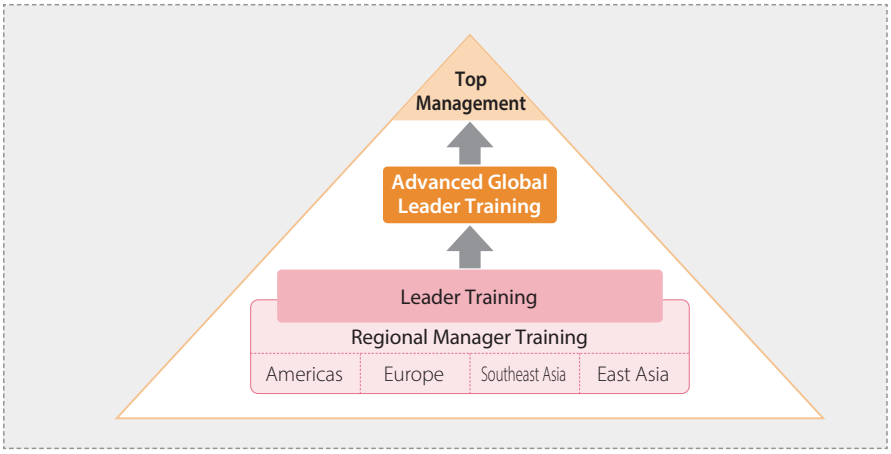
FY2021 Results	Target
Approx. **137** hours/year per person (8% of regular working hours)	Aim to spend 10% of work time on training or studying for work

Human Resources Management

Methodical Development of Global Talent

Sumitomo Chemical is carrying out a staged training program in human resource development for employees both in Japan and at overseas Group companies, in order to discover and develop next-generation leaders in a systematic way, emphasizing the creation of Global Leaders who can take on the role of core management.

Next-Generation Leader Development System



Note: The education system was revised from fiscal 2022

(1) Advanced Global Leader Training

In our Advanced Global Leader Training for general managers inside and outside of Japan we instill management perspectives and insights among participants through lectures and discussions featuring executive officers and external executives.

(2) Global Leader Training

In Sumitomo Chemical's Global Leader Training for managerial employees both inside and outside of Japan, Sumitomo Chemical has worked with a graduate school of business with the goal of developing the employees' conceptual strength and abilities to propose strategies for the creation of new value. They decide on their own topics and provide advice on the content of these specific initiatives to the president and others in management.

Training for Development of Global Talent (for select participants)

(No. of people)

Name	Approach	FY2019	FY2020	FY2021
Development of Global Talent	In order to create global leaders who will play a central role in management and to develop talent that supports our global business operations, we systematically conduct various training programs.			
(1) Global Leader Training	Our global leader training program focuses on action learning.	20	—	14
(2) Leader Training	Held in Singapore and Japan to develop the next generation of leaders, we conduct training programs in English.	27	27	27

FY2021 Results

Participants
41
(breakdown: 38 men, 3 women)

Average time
61 hours per person

Human Resources Management

Management Skills Enhancement Training

We are conducting a training program to provide managers with the ability to guide their own organization and thus achieve their goals through the learning of general principles and practical skills needed for workplace management.

■ Management Skills Enhancement Training (required for all eligible employees)

(No. of people)

Name	Approach	FY2019	FY2020	FY2021
Management basic training	Training that promotes the systematic understanding of basic management principles and enables the practice of skills that can be used in the workplace	175	213	237
New department manager/ team leader training	Training covering the knowledge and skills, including risk management, necessary to operate as a workplace manager	55	89	86
MG I grade promotion training	Training for management-level employees aimed at fostering self-awareness regarding their roles and occupational duties along with cultivating strong self-actualization and at changing their mindsets as organizational leaders	75	118	158
Training in communicating with subordinates	Training on feedback methods used to develop subordinates and ensure understanding of basic communication policies	240	123	183
Diversity management training	Training covering management capabilities, including how to influence organizational performance, and the management qualities and skills needed to gather diverse personnel and guide them on teamwork and achieving goals (from FY2020)	—	230	219

FY2021 Results

Participants
883

Average time
7 hours per person

Enrollment rate of all eligible employees:
100%

System for Passing on Skills and Developing Personnel

We have established a Trainer System and a Senior Training Advisor System with the main aim of steadily passing on skills essential to the manufacturing frontlines and developing future core personnel.

(No. of people)

Name	Approach	FY2019	FY2020	FY2021
Trainer System	Highly skilled employees who have an aptitude for teaching provide instruction and advice to facilitate development.	48	62	64
Senior Training Advisor System	Supervisors and potential supervisors are provided OJT to develop core personnel for manufacturing departments.	8	9	8

In addition, from fiscal 2022, we established a new system to certify individuals possessing a wealth of experience and hands-on knowledge skills in the maintenance and safety of equipment and who are responsible for various tasks as "Advanced Maintenance Practitioners." We will continue to promote initiatives to enhance safety throughout the Company.

Looking Ahead

Going forward, Sumitomo Chemical will continue to promote various measures for employee growth to realize a human resources system centered on "development and growth." We have expanded online options for training programs. We will continue to take measures that let employees choose their own training content and make learning a habit.

Human Resources Management

<Healthcare>

Basic Policy

In order to ensure that employees can live healthy and active lives both physically and mentally, Sumitomo Chemical is promoting a variety of health support programs under the company-wide supervision of industrial physicians, including health guidance by medical staff.

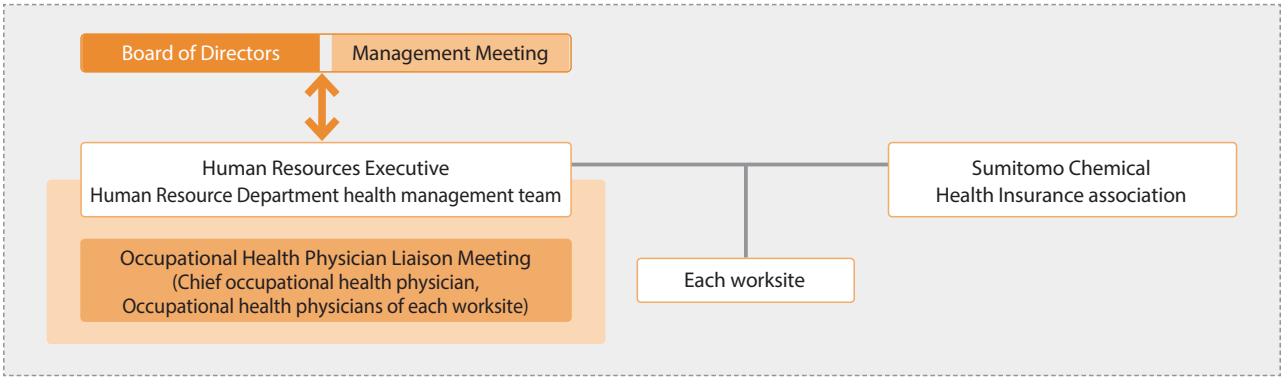
Management System

The Board of Directors and the Management Meeting seize opportunities to receive reports and hold discussions on the status of employee health and the direction of initiatives addressing various issues. At the annual occupational health physician liaison meeting, the chief occupational health physician and the occupational health physicians of each worksite hold discussions and solicit opinions when deciding on Company-wide measures and targets. In addition, the occupational health physicians, medical staff (public health nurses, registered nurses, etc.), and health managers of each worksite work together to implement measures to maintain and promote health in collaboration with the Company and its health insurance association.

Furthermore, at Health Manager Meetings, the progress of Company-wide measures at each worksite and the measures taken at each worksite are shared and the results are assessed. The Health Management Promotion Committee shares financial information, including that related to medical fees and the healthcare business of the health insurance association.

As for Group companies, through liaison meetings attended by executive offices in charge of human resources at Group companies, we circulate such information as key points regarding legal amendments related to health management and raise employee awareness to ensure appropriate responses.

■ Promotion System for Health Maintenance and Promotion Measures



Human Resources Management

Targets and Results / Examples of Initiatives

To maintain the health of employees' bodies and minds, we are taking the following initiatives.

Physical Health

Regarding employees of Group companies in Japan, we are working to improve their health by enrolling them in health insurance based on the Health Insurance Act. In addition, we are appropriately implementing regular health checkups based on the Occupational Safety and Health Act.

<Initiatives Aligned with the Health Insurance Association>

(1) Specified health checkups and specified health guidance

- We expanded the eligible age range for specified health guidance to include all ages as we work to prevent lifestyle diseases with the goal of ensuring 100% of employees receive such guidance.
- We analyze results and questionnaire responses to study employee health.

(2) Smoking cessation support programs

- We have banned smoking as a general rule during work hours and on the Company's premises, and are supporting employees' smoking cessation efforts through specialized programs in conjunction with the Group's health insurance association.

<Initiatives Promoted by Sumitomo Chemical (Non-Consolidated)>

(1) Sleep improvement programs

- We introduced programs to improve sleep quality under the guidance of experts who use sleep monitoring devices to observe employees while sleeping and apps to visualize their sleeping issues. Ensuring employees get better sleep leads to improved health outcomes and helps employees give their best performance.

(2) Overseas health tours

- The Company dispatches its chief occupational health physician to provide overseas medical counseling and evaluate medical service environments to support employees working overseas and their accompanying families.
- In fiscal 2020, medical counseling and environmental evaluations were implemented online in coordination with local staff due to overseas travel restrictions imposed in consideration of the COVID-19 pandemic.

Human Resources Management

Mental Health

We have been cooperating with medical staff to properly implement the stress checks required by law for companies. We are working to prevent mental health problems by encouraging employees to take care of themselves and encouraging superiors to look after their subordinates. Employees are able to receive counseling from the Company's medical staff.

We are involved in employees' mental healthcare. We conduct group analyses of stress checks and analyze trends at worksites and workplaces to provide feedback to workplaces and set themes for lectures and other meetings.

In addition, during the new employee training and the grade-based promotion training, we hold appropriate mental healthcare training for participants eligible for training encouraging employees to take care of themselves and encouraging superiors to look after their subordinates. In addition, we created lecture videos on mindfulness, which is said to help build good personal relationships and enhance productivity, and released them in-house as part of our efforts to improve the mental healthcare environment.

■ KPI

Continual certification as a Health & Productivity Management Outstanding Organization (White 500)

Health & Productivity Management Outstanding Organization (White 500)

After analyzing medical examination results and medical interview responses, we set quantifiable targets, such as improving BMIs, and take various measures to maintain and promote health.

In addition, Sumitomo Chemical was certified as a Health & Productivity Management Outstanding Organization (White 500) for the fifth year in a row. The Certified Health & Productivity Management Outstanding Organization Recognition Program was created in 2016 by the Ministry of the Economy, Trade and Industry. The program recognizes companies that practice outstanding health and productivity management based on the health promotion efforts of the Japan Health Council. The Company's various measures and systems related to health and productivity management received a positive evaluation.

2022 健康経営優良法人 Health and productivity ホワイト500

■ BMI adequacy rate for all employees

FY2020 Results

66.7%

Note: Average 65.3% for all ages
(from Ministry of Health, Labour and Welfare data)

Looking Ahead

Sumitomo Chemical will continue creating and implementing various initiatives to maintain and promote the health of employees in line with the belief that personnel are the most important management resource. In addition, we will assess the results of these initiatives, make improvements, and implement PDCA cycles in our continuing efforts to develop more effective measures and support employee health.

Occupational Safety and Health / Industrial Safety and Disaster Prevention

Basic Stance

Reflecting the core principle of "Making safety our first priority," the Sumitomo Chemical Group has formulated five fundamental and personal safety principles that each employee is expected to follow as well as guidelines based on the core principle. All Group employees and all involved parties, including partner companies, are thus united in promoting safety activities with the goal of eliminating all accidents. Furthermore, the Group undertakes stringent process risk assessments of the entire life cycle (development, manufacture, distribution, use, disposal), and takes appropriate safety measures based on its evaluation of risks. The aim of these efforts is to prevent unforeseen industrial accidents, including fires, explosions, and the leakage of hazardous substances, and to minimize damage in the event of a natural disaster such as a major earthquake.

Sumitomo Chemical has acquired OSHMS* certification at its worksites. In addition, the Company implements PDCA cycles that support a host of measures on the path to realizing improvements based on risk assessments. These safety-related measures and their results are reviewed at the end of each fiscal year by the Responsible Care Committee, which is headed by the President. The reviews ensure a continuous connection to future fiscal years' cycles, thereby strengthening safety and health activities that prevent accidents.

* By introducing and deploying ISO (International Organization for Standardization) 45001 and JISHA (Japan Industrial Safety and Health Association) OSHMS (Occupational Health and Safety Assessment Series) Standards equivalent to OHSAS 18001, the Company conducts sound corporate management and risk management from the perspective of occupational safety and health.

Core Principle: Making Safety Our First Priority

Raison D'être for the Core Principle

1. Line management is fundamental to Safety and Health.
2. Each person is responsible for Safety and Health.
3. Sumitomo Chemical is united with partner companies on Safety and Health.

Five Fundamental and Personal Safety Principles that Each Employee is Expected to Follow.

- I will give safety and health the top priority in every aspect of business.
- I will identify and resolve safety and health issues at the source.
- I will comply with rules and instructions.
- I will act with safety in mind 24 hours a day, not just during working hours.
- I will cooperate with all involved parties, including partner companies, to ensure safety and health.

Management System

The president serves as the chief coordinator and the executive officer in charge of Responsible Care serves as the coordinator of the Safety Group of the Responsible Care Department. This group is responsible for matters related to safety, health, industrial safety, and disaster prevention of the Company as a whole and supports the safety, health, industrial safety, and disaster prevention activities of Group companies. To assess the safety, health, and industrial safety management status and to consider measures for improvement, the safety, health, industrial safety, and disaster prevention departments of each worksite and Group company regularly meet and exchange information. In these and other ways, relevant departments work together to steadily enhance the level of safety, health, industrial safety, and disaster prevention activities.

In addition, Safety and Health Committees comprising labor and management representatives are convened every month at each worksite. The committees investigate and deliberate matters related to safety and health risks to all employees at worksites and promotes specific measures in unison with labor and management.

P.96 Organization of Responsible Care

Occupational Safety and Health / Industrial Safety and Disaster Prevention

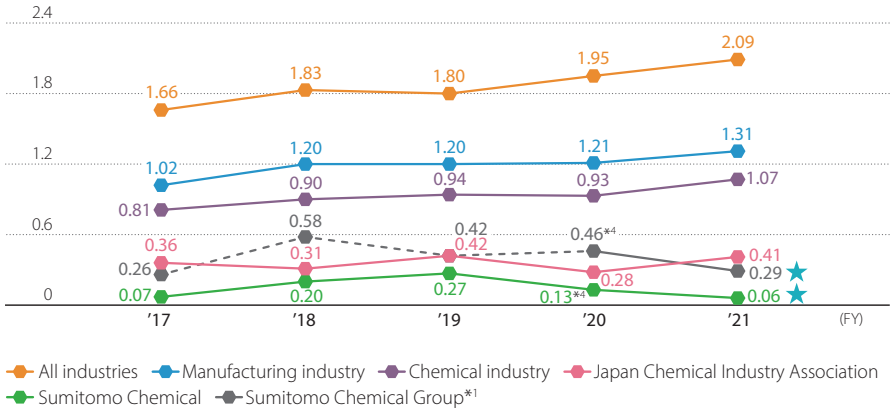
★: Assured by an independent assurance provider

Goals and Results

<Occupational Safety and Health>

The Sumitomo Chemical Group*1 targets a frequency rate of lost-workday injuries*2 of under 0.1, but its rate was 0.29 in fiscal 2021, or a total of 26 injuries, failing to meet the target. Moreover, while the Group has set a goal of zero severe accidents,*3 a contractor at a Sumitomo Chemical facility recorded one fatal accident in fiscal 2021, the same number of severe accidents as the previous fiscal year, failing to meet the target. On a non-consolidated basis, Sumitomo Chemical recorded a frequency rate of 0.06 (lost-workday injuries: 1) and a severity rate of 0.001 in fiscal 2021, while contractors and other affiliate companies recorded a frequency rate of 0.60 (lost-workday injuries: 6) and a severity rate of 0.79.

■ Frequency Rate of Lost-workday Injuries



■ Lost-workday Injuries (Sumitomo Chemical Group*1)

	FY2017	FY2018	FY2019	FY2020	FY2021
Number of lost-workday injuries	17	35	27	40*4	26

Regarding a Fatal Accident During Shut Down Maintenance

On November 27, 2021, a very tragic accident occurred at on the grounds of the Ehime Works where one employee of a contractor died during shut down maintenance. We mourn this tragic loss of life and would like to offer our sincere condolences to the family. We deduced that this accident occurred during work to clean off residue on the inside of hydrogen cyanide refining equipment with high-pressure water when the worker was exposed to hydrogen cyanide that had adhered to the inside of the equipment.

All officers and employees gravely accept the seriousness of this accident, and we launched a project team that identified problems and thoroughly debated preventive countermeasures. We have already begun initiatives. We reaffirm the core principle of "Making safety our first priority," are keenly aware of our mission to protect precious life, and will continue working with all our might to ensure this kind of tragic accident never occurs again.

*1 The Sumitomo Chemical Group as defined for occupational safety and health:
Until FY2019:
Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.
From FY2020 onward:
Sumitomo Chemical (including contractors) and consolidated subsidiaries in Japan and overseas.

*2 Scope of frequency rate:
Employees of Sumitomo Chemical (including contractors) and consolidated subsidiaries (excluding one overseas consolidated subsidiary), including temporary employees, part-time staff, and dispatch employees.
Calculation of hours worked:
For the number of hours worked by consolidated Group subsidiary employees, the Company uses an estimate reached by multiplying the number of employees by 1,928 hours (Sumitomo Chemical's standard number of hours worked annually). (For the number of hours worked by Sumitomo Chemical employees (non-consolidated) and contractors, the Company uses the actual number of hours recorded.)

*3 Severe accidents are defined as those that result in a fatality or those that result in severe lost-workday injuries, including blindness and loss of a limb.

*4 Regarding accidents that occurred in fiscal 2020, there was an accident that occurred then but was only recognized as a lost-workday injury in fiscal 2021 and, accordingly, the accident was added to the number of fiscal 2020 occupational accidents, and the frequency rate of lost-workday injuries (for Sumitomo Chemical and the Sumitomo Chemical Group) was revised.

Occupational Safety and Health / Industrial Safety and Disaster Prevention

<Industrial Safety and Disaster Prevention>

The Sumitomo Chemical Group*1 did not achieve the target of "no severe industrial accidents"*2 in fiscal 2021 because there was one severe accident. Although this accident did not impact the neighboring community, one employee of a construction contractor suffered burns to the hands, accounting for a lost-workday injury. We have shared the lessons of this accident within the Group and have taken preventive countermeasures.

In addition, there were six industrial accidents, which are minor accidents whose scale does not reach that of a severe industrial accident, in fiscal 2021. We will work to enhance industrial safety management and quickly share the causes of the minor industrial accidents and the lessons learned across the entire Sumitomo Chemical Group.

■ Severe Industrial Accidents (Sumitomo Chemical Group*1)

	FY2017	FY2018	FY2019	FY2020	FY2021
Number of severe industrial accidents	0	0	0	0	1

*1 The Sumitomo Chemical Group as defined for industrial safety and disaster prevention:
Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.

*2 "Severe industrial accidents" refers to any of the following workplace incidents:
- Accidents that cause injuries to local residents requiring outpatient/hospital treatment
- Accidents that result in lost-workday injuries to workers on the site
- Accidents that result in equipment and facility damage exceeding 10 million yen

Examples of Initiatives

<Occupational Safety and Health>

Sumitomo Chemical thoroughly investigates the causes of each accident and works to prevent accidents by taking such measures as ensuring strict adherence to safety rules, providing hazard prediction training, also known as Kiken Yochi Training (KYT), and sharing accident information. In addition, we are working to raise safety awareness among all partner companies that enter our Works and research laboratories by distributing pocket-size cards and entrance certificates that feature the ground rules and core principles of safety as we promote our initiative of "Making safety our first priority."

Ensuring Thorough Compliance with the Sumitomo Chemical Group's Basic Safety Rules (Ground Rules)

In light of trends in the causes of accidents, the Group has established the following ground rules and is working to ingrain safe behavior.

1. Think Before You Act!
2. Help each other to be more aware of unsafe actions
3. Do not place hands in or around areas of working machinery/equipment

Improving Hazard Prediction Abilities

We are working to improve employees' hazard prevention ability—their ability to perceive and avoid danger—through, for example, behavior-based safety training and workplace discussions using illustrations.

Sharing and Using Accident Data

The Group shares information about all accidents mainly for use in safety education and comprehensive on-site investigations. When an accident occurs, we conduct a thorough examination of the causes and organize studies on how to prevent recurrences through on-site inspections with the top management of the affected workplace and safety managers.

Awards for Safety

Safety awards are given to workplaces (Works and research laboratories) that achieve zero lost-workday injuries. The President's Award for workplace safety is presented to workplaces with both a solid safety track record and good practices for safety and health, which could be an example to other workplaces. The President's Award was given to eight workplaces in fiscal 2021.

Occupational Safety and Health / Industrial Safety and Disaster Prevention

Safety Promotion through In-house Magazine, Slogan and Poster

In our in-house magazine entitled "Raising the Level of Safety!" (entitled "Learn through Manga! Promoting a culture of safety" since fiscal 2019), we have introduced examples of accidents that tend to happen at work and their preventive measures in a series of articles on enhancing safety since fiscal 2013. We also collect ideas each year for a slogan and a poster for safety and health, and make a poster using the best ideas and display it at each workplace to raise safety awareness.

Preventing Severe Accidents in Subcontracted Operations and Construction Operations

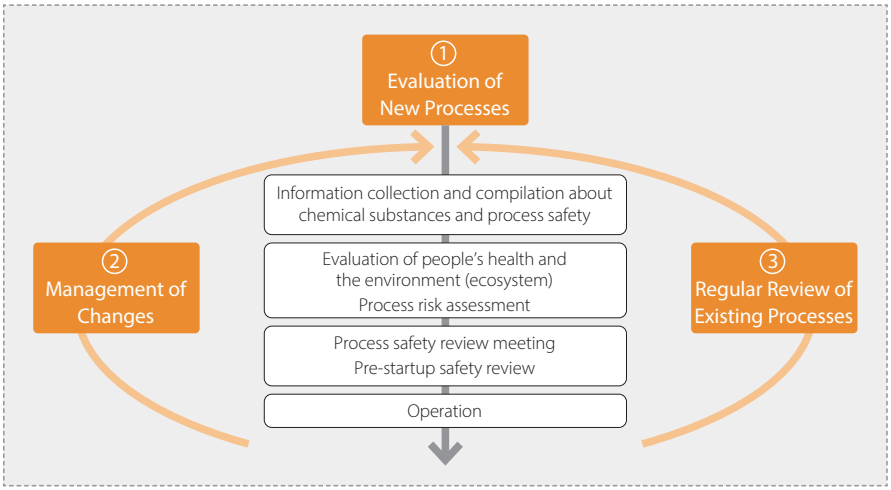
Sumitomo Chemical is taking action across the Company to ensure the safety and health of all involved parties, including partner companies. For example, one of the key initiatives outlined in the "Fiscal 2022 to Fiscal 2024 Medium-Term Plan for Responsible Care Activities" and "Fiscal 2022 Annual Responsible Care Policy" is responding to changes in employment structure, working to establish a foundation to ensure work safety and health, and promoting measures to prevent severe accidents in subcontracted operations and construction operations. We also conduct thorough risk assessments.

<Industrial Safety and Disaster Prevention>

Risk Management Initiatives

Sumitomo Chemical manages risks related mainly to process safety, chemical (raw materials, products) safety, and occupational safety and health at each stage from new chemical process R&D through the commercialization process to plant design, construction, operation, maintenance, and even demolition. The items and procedures essential to risk management are specifically outlined in the Development and Commercialization Regulations, the Safety Management Rules, the Chemical Safety Management Regulations, and other similar documents that provide the standards for the Company. In addition, we introduced this system to major consolidated subsidiaries as part of efforts to enhance safety management across the entire Group.

■ Risk Management (Three Routes)



① Evaluation of New Processes

The Process Safety Review Meeting (levels 1 to 5) convenes at every step, from R&D through to industrial-scale production. These meetings are held to identify risks related mainly to process safety and chemical safety, to review risk assessment results as well as to determine whether safety countermeasures are appropriate. This mechanism ensures that processes do not proceed to the next step unless adequate safety has been confirmed. Furthermore, before starting operations, the meeting conducts safety reviews to assess responses to risks related to occupational safety and health. For example, the meeting confirms the absence of problems in the operational environment (including temperature, noise, vibration, etc.), if safety signs are appropriately displayed, if necessary personal protective equipment and ample equipment and materials for emergency have been secured, and whether there is sufficient preparation of and education regarding instruction manuals.

Occupational Safety and Health / Industrial Safety and Disaster Prevention

② Management of Changes

When certain changes are made to, for example, improve plant facilities or modify operating conditions, the Company conducts all necessary safety assessments before such changes are made to confirm whether there are new risks related mainly to process safety, chemical safety, and occupational safety and health following the changes and to, as needed, consider additional safety measures.

③ Regular Review of Existing Processes

Even when there is no change in the process, Sumitomo Chemical conducts regular process hazard reviews (no more than every five years, as a general rule) to catch up with the latest information on industrial safety technologies and to check whether there will be a significant impact from the long-term use of a plant. In addition, in our internal audits conducted every year for each workplace, we check whether or not safety management systems are functioning appropriately.

Preparation for Large-Scale Natural Disasters

Sumitomo Chemical drew up a basic plan on earthquake countermeasures in 2004, taking the initiative to improve the earthquake resistance features of equipment that was especially susceptible to the risk of damage. Furthermore, in accordance with recent directives by government authorities to improve the seismic adequacy of existing facilities, we made a plan to obtain required earthquake-resistant features of critical high-pressure gas equipment and are carrying out reinforcements and reconstruction in line with the plan. Before carrying out this work, we took measures to reduce risk and ensure safety, such as reducing the volume of gas held in equipment in order to decrease its weight and meet the earthquake resistance criteria.

In addition, as natural disasters continue to grow more extreme, including the typhoons and torrential rains seen in recent years, we continually review the current status of our safety measures to ensure they are adequate and take measures aimed at securing facilities and personnel as necessary. Furthermore, we confirmed that even in the event of flooding inside a plant due to a typhoon or torrential rain, the risk of the following is low: a loss of power to the plant's cooling facilities or water-reactive substances inside the warehouse coming into contact with water causing large-scale fires and explosions that could cause trouble for neighboring residents.

Safety Education and Drills

Sumitomo Chemical has a variety of industrial safety educational programs that reflect the operational roles of employees throughout the Company. The programs are aimed at bolstering the ability of employees to acquire knowledge and skills in order to ensure process safety. In addition, we provide safety education to Group companies in Japan suited to each company's needs.

■ FY2021 Main Safety Education Programs (Companywide Education)

Name	Type	Purpose	Boundary	Participants
In-house Safety Management System Education	e-learning	Fostering a deep understanding of the basic rules of safety management (the "Safety Management Rules")	Sumitomo Chemical (all worksites)	1,803
Disaster Prevention Theory	Group training	Promoting the acquisition of basic knowledge regarding safety and disaster prevention for fires, explosions, reaction hazards, static electricity, etc.	Sumitomo Chemical (Works, research laboratories)	135
			Group companies in Japan	2
Fire and Explosion Training	Group training and self-study	Promoting the acquisition of knowledge to prevent accidents and perceive hidden dangers in the workplace through hands-on training related to fires and explosions	Sumitomo Chemical (Works, research laboratories)	108
			Group companies in Japan	31
HAZOP* Training	Group training and e-learning	Training personnel to learn the basics of HAZOP and to be able to conduct HAZOP	Sumitomo Chemical (Works, research laboratories)	36
			Group companies in Japan	2
Safety Engineer Training Course	Group training and self-study	Training personnel who have central roles in uncovering process hazard sources, carrying out appropriate risk assessments, crafting safety measures, and effectively reducing risks	Sumitomo Chemical (Works)	15

* HAZOP:
A method of assessing process hazards that was developed with the aim of uncovering all latent hazards in chemical processes, assessing those impacts and results, and considering necessary safety measures.

Occupational Safety and Health / Industrial Safety and Disaster Prevention

At each of their worksites, Sumitomo Chemical and Group companies conduct education when necessary regarding operational details, substances handled, and the setup of protective equipment for operators who need to consider occupational health and safety in situations such as operations in high places, operations in hazardous places with poor oxygen, operations in high or low temperature environments, operations in high-noise environments, and operations handling specified chemical substances and organic solvents. In addition, special health assessments are made, operational environments are monitored, and workplace patrols are regularly conducted by occupational physicians and health inspectors as we strive to upgrade and maintain operational environments.

■ Examples of Safety Education and Drills at Sumitomo Chemical Worksites

Safety Education Examples	Safety and health training for new employees, newly appointed supervisors, and newly appointed managers; briefings on laws and regulations (Industrial Safety and Health Act, High Pressure Gas Safety Act, Fire Service Act, etc.), health management system education, safety and health seminars (protective equipment, etc.), hazard experience training (exposure to liquids, squeezing, falling, etc., includes VR training materials.), hazard prediction training, also known as Kiken Yochi Training (KYT), training in accident analysis methods (the five whys, etc.) safety and health education in officers, traffic safety education, etc.
Safety Drill Examples	Petrochemical complex integrated emergency response drills (municipalities, companies in petrochemical complex districts), earthquake and tsunami evacuation drills, joint firefighting drills with specialized firefighting teams and workplace firefighting teams, drills using fire extinguishers and fire hydrants, drills on lifesaving procedures (AEDs, etc.), drills on emergency contacts at night and on holidays, etc.

In addition, for everyone at partner companies conducting operations within our worksites (works, research laboratories), we provide safety education for entering worksites (basic policy on safety, basic rules inside worksites, etc.), construction supervisor training (supervisor obligations, risk assessments, etc.), hazard experience training, and more.

Industrial Safety Action Plan

Industry organizations came together with the Japan Petrochemical Industry Association and drew up an industrial safety action plan in July 2013 in a bid to step up efforts aimed at promoting industrial safety. Here we introduce the Company's initiatives based on the action plan.

(1) Commitment by Top Management to Industrial Safety

- Sumitomo Chemical has identified efforts to ensure full and strict compliance and maintain safe and stable operations as one of the Group's priority management issues under its Corporate Business Plan.
- The president issues a safety week message to all employees and Group companies in Japan and overseas to coincide with National Safety Week, which begins on July 1 each year.
- We have held the President's Awards for workplace safety on a continuous basis since fiscal 2012.

(2) Setting Industrial Safety Targets

- Each year, Sumitomo Chemical sets targets for a variety of key parameters, including the elimination of all accidents resulting in lost workdays as well as all severe industrial accidents. The Company engages in a broad spectrum of activities aimed at achieving these targets.

(3) Drawing Up an Action Plan to Secure Industrial Safety

- Sumitomo Chemical pursues activities aimed at thoroughly identifying industrial safety risks that encompass regular and irregular operations.

(4) Checking and Evaluating Progress toward Achieving Targets and Implementing Measures

- The Responsible Care Committee reviews progress toward the achievement of targets and the implementation of measures. Findings under this review are reflected in the plan for the next fiscal year.

(5) Initiatives Aimed at Promoting Voluntary Safety Activities

- The Sumitomo Chemical Group established the ground rules related to safety and strives to foster a culture of safety.
- Sumitomo Chemical designates one day each month as a "safety day" in an effort to continuously focus the attention of the entire Group on the importance of industrial safety.
- Academic experts conduct seminars and undertake an evaluation of safety assurance capabilities by the Process Safety Competency Center of Japan Society for Safety Engineering.

Occupational Safety and Health / Industrial Safety and Disaster Prevention

Logistics Initiatives

The Sumitomo Chemical Logistics Partnership Council was formed by Sumitomo Chemical and the logistics subcontractors (113 companies) for Sumitomo Chemical and its Group companies in Japan with the core principle of "Making Logistics Safety the First Priority." The Council maintains committees for Works in each area as well as for stock points (transport and storage) and marine transport-related operations nationwide. The Council is expanding the Logistics Department's Responsible Care activities.

In fiscal 2021, there were zero lost-workday injuries related to safety and health. We will continue striving to uncover risks and further enhance our safety and health management level going forward.

In addition, as for industrial safety and disaster prevention, we present our logistics subcontractors with transport standards to ensure safety, such as safety management rules related to the land and marine transport of hazardous substances, and strictly ensure the rules are followed. We built a system under which we cooperate with logistics subcontractors even during critical times when an accident occurs to quickly arrive at the crisis site and address the situation as well as a system that enables rapid response to accidents, to this end joining the Hazardous Materials Emergency Response Service of the Maritime Disaster Prevention Center.

■ Lost-workday Injuries in Logistics

	FY2017	FY2018	FY2019	FY2020	FY2021
Number of cases	0	1	5	1	0

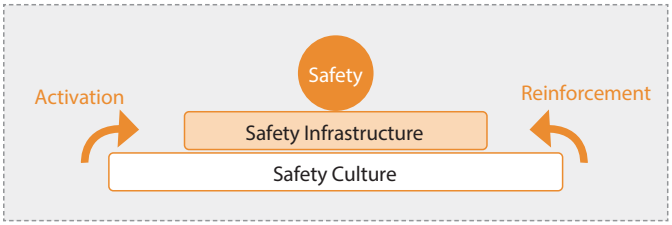
Note: Lost-workday accidents caused by logistics subcontractors on the premises of Sumitomo Chemical workplaces and lost-workday accidents caused by major logistics subcontractors outside the premises of Sumitomo Chemical workplaces.

Looking Ahead

Although activities to enhance a culture of safety have taken root, we currently have not entirely eliminated severe accidents, including those resulting in fatalities. To bring these accidents down to zero, we measure the level of the safety culture of each workplace and constantly strive to make improvements as we strive to foster a culture where safety is a given. In addition, we promote safety and health activities based on international standards (occupational safety management systems, machinery safety, etc.) and will continue adapting as we work toward realizing a society where people can choose from a diverse range of flexible working styles.

In addition, we will further strengthen our safety infrastructure by carefully managing our facilities and construction projects, providing advanced training for safety-related personnel, and introducing sophisticated risk assessment methods and cutting-edge technologies, including IoT, to bolster our employee safety and industrial safety management technologies. We will also reinforce our responses to new threats, such as intensifying natural disasters and terrorism.

■ Illustration of How We Ensure Safety through Safety Infrastructure and Safety Culture



Product Stewardship / Product Safety / Quality Assurance

Basic Stance

Product Stewardship at Sumitomo Chemical

Under its Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality), the Sumitomo Chemical Group promotes product stewardship*1 and works to provide products and services that satisfy customers and can be used with peace of mind.

The "2020 Targets"*2 were proposed at the World Summit on Sustainable Development (WSSD) in 2002, and we are now in an era in which risk-based management of chemicals is required in terms of both regulations and companies' efforts to promote product stewardship, which is expected to continue.

Sumitomo Chemical promotes voluntary initiatives to enhance product stewardship, including the Global Product Strategy (GPS)*3/Japan Initiative of Product Stewardship (JIPS)*3 put forward by chemical industry associations, including the International Council of Chemical Associations (ICCA) and the Japan Chemical Industry Association. We actively participate in capacity-building activities, conduct risk assessments of our products, and perform risk-based management. We will continue responding to international trends.

*1 Product stewardship: The assessment of risks and protecting people's health and the environment from those risks throughout the product life cycle, which encompasses the entire supply chain from the development of chemical products to manufacture as well as sale, use/consumption, and disposal.
*2 2020 goal: Ensure that chemicals are used and produced in ways that lead to the minimization of significant adverse effects on human health and the environment.
*3 GPS/JIPS: Initiatives that call on companies to conduct risk assessments of their products and to engage in appropriate chemical management based on risk in order to minimize risks throughout the supply chain. Under GPS/JIPS, toxicological information on chemical products is disclosed to the general public, including customers.

Ensuring Thorough Compliance

Sumitomo Chemical Group conscientiously adheres to various laws and regulations related to the manufacture, import, export, and sale of goods. We are working to ensure thorough compliance throughout our entire globally expanding group of companies.

Quality Assurance

The Group maintains its commitment to further improving product quality and is continually enhancing its global quality assurance system, which is tailored to each product, because the Group values the trust it has earned from customers and society and aims to further improve customer satisfaction.

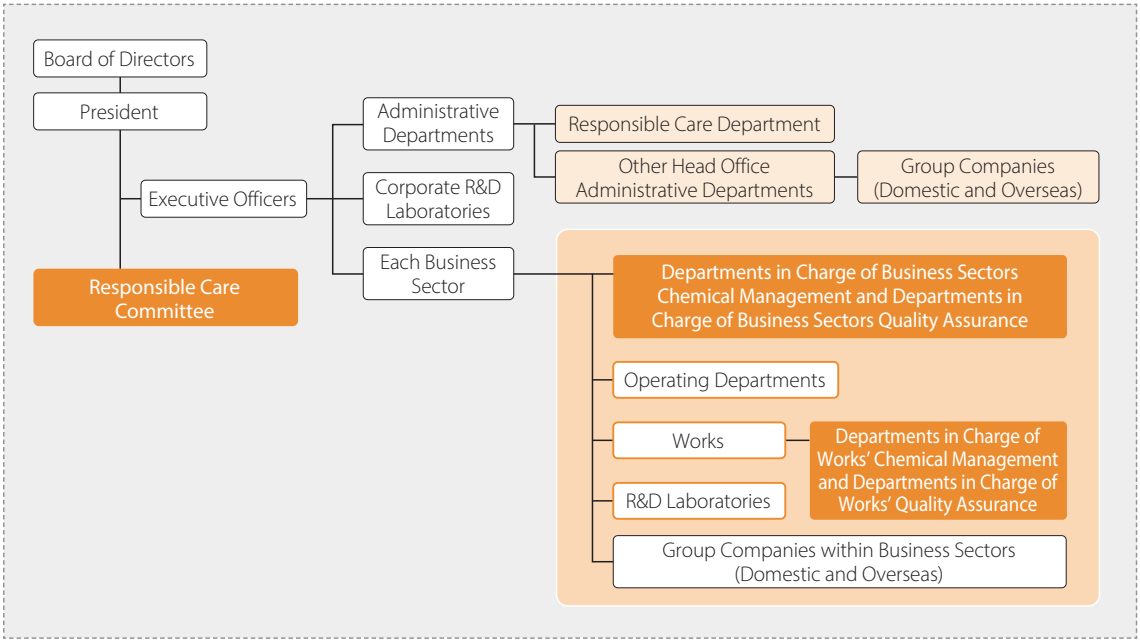
Product Stewardship / Product Safety / Quality Assurance

Management System

As the highest body for deliberating and approving Sumitomo Chemical's RC activities, the Responsible Care Committee is chaired by the president and comprises executive officers supervising the administrative departments and the four business sectors of the Company, and the General Manager of each Works. The Committee puts in place annual policies on RC activities, including chemical management and quality assurance activities; medium-term plans; and specific measures as they relate to Responsible Care. The Committee also analyzes and assesses the results of Responsible Care activities.

In addition, the Responsible Care Department oversees the Company's chemical management and quality assurance management as well as supports each Group company's chemical management and quality assurance management. Each department in charge of chemical management and quality assurance for Works and other departments promote appropriate chemical management and quality assurance management for their respective Works and department.

■ Organization of Chemical Management and Quality Assurance Activities



Product Stewardship / Product Safety / Quality Assurance

Goals and Results

For goals and results for Product Stewardship / Product Safety / Quality Assurance, refer to the section entitled, "Social Activity Goals and Results."

P.164 Product Stewardship / Product Safety / Quality Assurance

Examples of Initiatives

Risk Assessment and Management throughout the Entire Product Life Cycle

With regard to the chemicals (products) that it uses and sells, Sumitomo Chemical conducts risk assessments that span the entire product life cycle and all that could be affected, including internal operators, neighboring residents, the surrounding environment, customers, and consumers. The Company supports the Ministry of the Environment's Eco-First program and completed appropriate whole life-cycle risk assessments for its products manufactured or sold in annual amounts of one ton or more by fiscal 2020 to promote the voluntary initiatives (GPS/JIPS) adopted by chemical industry associations. The results of these assessments are compiled into a safety summary and made publicly available online, including on the Japan Chemical Industry Association (JCIA)'s portal website (https://www.jcia-bigdr.jp/jcia-bigdr/en/material/icca_material_list). From fiscal 2021, we will continue to conduct appropriate risk assessments of products that are newly included in the scope through, for example, product development (reinspection of risks of already assessed substances based on the latest insights).

In conducting chemical risk assessments, it is necessary to collect information regarding the hazards associated with each product and the levels of human and environmental exposure when products are handled. Based on the information needed for these risk assessments, we work to ensure that customers and employees handle chemical substances safely. To this end, we have created a collaborative framework centering on the Responsible Care Department and encompassing the frontlines of production and our internal research laboratories, which possess specialized technologies in risk assessment and safety engineering. To estimate exposure levels, the Company draws on projection models and expert insights in Japan and overseas and has developed its own simulation program. We also use the latest technology to efficiently conduct highly precise risk assessments. In line with our internal rules, during the development of new products, we collect data regarding risks and hazards for all handled substances before entering the production stage and survey and respond to all relevant laws and regulations. We will continue to conduct risk assessments based on the most up-to-date information available.

Risk Management for Product Safety

As for risk assessments of product safety, it is necessary to assess the risks of chemical substances in products as well as the risks associated with product applications and uses. Taking into consideration not only their use by our direct customers but also the use and disposal of such products by their end-users, we conduct risk assessments of applications and uses using failure mode and effects analysis (FMEA)* and other methods in addition to chemical substance risk assessments. Sumitomo Chemical conducts rigorous risk assessments of new products and reassesses items already on the market. In fiscal 2021, we performed 61 risk assessments. Going forward, we will continue to conduct rigorous risk assessments of new products and regularly conduct reassessments of products already on the market. In addition, we continue supporting Group companies in conducting similar product risk assessments and countermeasures.

* FMEA: A systematic method of analysis for detecting potential malfunctions and defects with the objective of their prevention

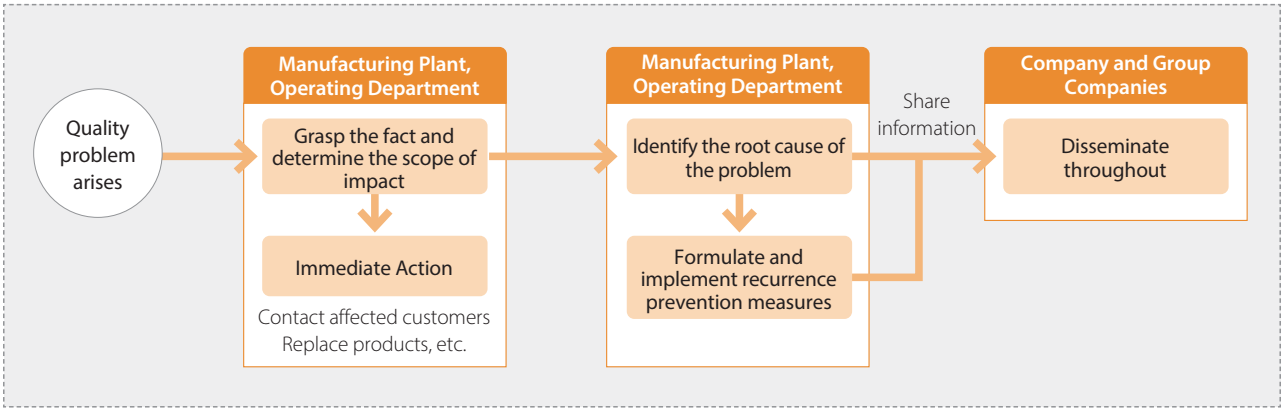
Product Stewardship / Product Safety / Quality Assurance

Providing Products and Services of Stable Quality

The Sumitomo Chemical Group is proud to provide its customers with products and services from a variety of fields centered on chemicals. In order to continue to supply our customers with products and services of stable quality, we have established quality assurance systems based on quality management systems and manufacturing and quality management guidelines, such as ISO 9001*1 and GMP,*2 appropriate for each product and service. In addition to maintaining thorough day-to-day product quality control, we are committed to further improving product quality.

When a problem related to the quality of our products or services occurs, we grasp the facts and determine the scope of impact in line with internal rules. We then take immediate action, such as contacting affected customers and replacing products. We subsequently work to identify the root cause of the problem, formulate and implement recurrence prevention measures, and implement those measures. Moreover, from the perspective of preventing recurrence of similar quality problems, depending on the severity of the problem, we disseminate information related to the root cause and recurrence prevention measures within the Company and to Group companies. We are committed to ensuring prevention problems in the first place.

■ Flowchart of How We Handle Quality Problems



In fiscal 2021, there were no major quality problems occurred in Sumitomo Chemical or consolidated Group companies. Going forward, we will also work to strengthen quality assurance for the entire Group by sharing information and activities related to quality and product safety. Furthermore, in order to continue supplying products and services of stable quality worldwide while addressing growing supply chain diversification accompanying its business expansion and the increasingly sophisticated needs of customers, the Group is enhancing its global quality assurance system through measures that include strengthening management of overseas suppliers and contractors.

*1 ISO 9001: The international standards on quality management systems issued by the International Organization for Standardization (ISO).
*2 Good Manufacturing Practice (GMP): Guidelines relating to manufacturing and quality management of pharmaceuticals.

The Information Sharing System and Ensuring thorough Compliance

The governments of Europe, the Americas, China, and the Asia Pacific region hold considerable sway over trends in global laws and regulations. To ensure thorough compliance, we post product stewardship specialists at our regional headquarters in these areas and are constructing a system to swiftly collect information related to regulatory trends. As for China, South Korea, Taiwan, Southeast Asia, and India, all of which have recently seen rapid and major changes in the legislative environment, together with Group companies we have been responding appropriately to the chemical regulations of each country.

As a response to the REACH Regulation in Europe, which is a world leader in terms of laws and regulations, we are moving forward with appropriate legal registration, managing our supply chain, and properly transferring data. In addition, our local Group company Sumitomo Chemical Europe is drawing up letters about its registration status in response to its customers' wishes as well as a declaration of conformity, which states the status of compliance and certificate acquisition with regard to various regulations.

In fiscal 2021, there were no reports of violations of regulations for Sumitomo Chemical products and services at any stage of their life cycles.

Product Stewardship / Product Safety / Quality Assurance

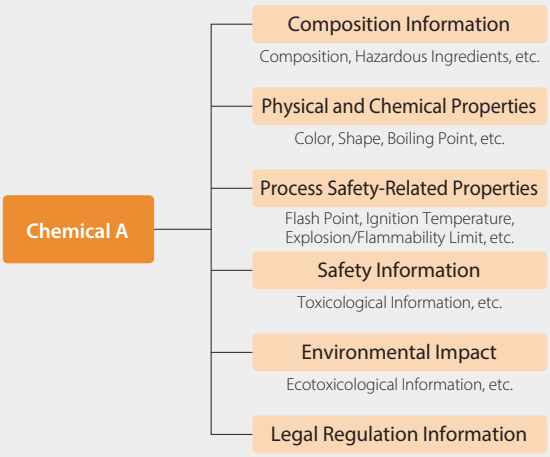
Effective Use of SuCCESS

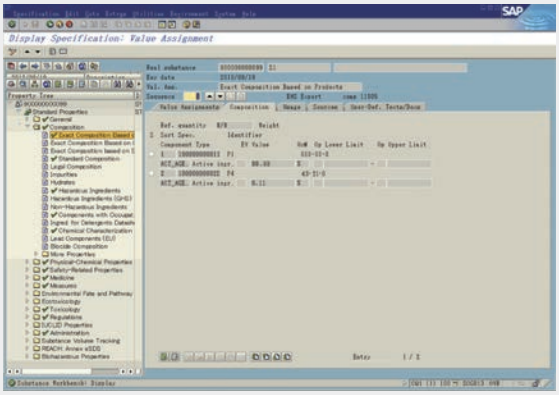
In order to appropriately manage and effectively use information on chemicals handled by the Company, such as their composition, toxicological information (risks and hazards), and regulatory requirements, Sumitomo Chemical has developed the comprehensive chemical management system (SuCCESS).*1 This system is used in order to respond to inquiries from customers concerning substances contained in our products and precisely comply with laws and regulations in Japan and around the world, such as the REACH Regulation in Europe. We also use this system to create SDSs*2 in around 40 languages to comply with GHS*3 and accurately and efficiently communicate hazard information throughout the supply chain. This system is also being proactively rolled out to Group companies. We had installed the system at 14 Group companies in Japan and overseas as of fiscal 2021. In addition, we are using SuCCESS to calculate the manufactured volumes reported to the government under the chemical substances control law via a substance volume tracking (SVT) system as well as to calculate exported volumes.

*1 Sumitomo Chemical Comprehensive Environmental, Health & Safety Management System (SuCCESS)
*2 Safety Data Sheets (SDS): SDSs include information on the safe handling of chemical products (properties, handling methods, safety measures, etc.) and should be created in compliance with the Japanese Industrial Standards (JIS) and the standards set by the International Organization for Standardization (ISO).
*3 Globally Harmonized System of Classification and Labeling of Chemicals (GHS): In 2003, the United Nations established these global rules for how to convey information about the classification and degree of hazards for chemical substances.

SuCCESS comprehensive chemical management system

Management of chemical composition, toxicological, regulatory information based on tree-shaped structure





Providing Toxicological Information

To ensure its products are handled safely, Sumitomo Chemical uses SDSs and labels to provide customers with toxicological and regulatory information about the chemical substances they contain and the hazard data consolidated in SuCCESS. Furthermore, especially regarding products requiring warnings about their handling, we create yellow cards that are a simplified version of their SDSs. This provides logistics operators with the information they need to ensure they can respond appropriately to an emergency situation during transportation.

Product Stewardship / Product Safety / Quality Assurance

Sharing Information on Chemicals in Products

Countries and regions around the world are moving forward with regulations on chemicals in products, as represented by the European Union's RoHS Directive*1 and REACH Regulation.*2 Because the content and required action for these regulations differs by country, region, and product field, we need to properly manage the chemicals present in not only final products but also raw materials and parts, and we need to accurately share this information on the chemicals present across the supply chain.

As a founding member of the Joint Article Management Promotion-consortium (JAMP), Sumitomo Chemical encourages acquiring and sharing information using chemSHERPA, which is an information-sharing scheme promoted by JAMP, and provides information in response to customer demands.

*1 RoHS Directive: An EU law related to restricting the use of specific hazardous substances, such as those in electric and electronic equipment
*2 REACH Regulation: A regulation related to the registration, evaluation, authorization, and restriction of chemicals within the EU

Laboratory Animal Welfare

In the process of developing useful chemical substances, a large variety of safety assessments are required. With this in mind, Sumitomo Chemical is actively developing new assessment methods, including structure-activity relationship approaches, and minimizing the use of laboratory animals for safety assessments. However, assessments of impact on humans, animals, and the environment cannot be completed without conducting experiments using laboratory animals. Sumitomo Chemical therefore advocates the humane treatment of laboratory animals and applies the 3Rs*3 of replacement, reduction, and refinement to conduct animal studies appropriately with due consideration for animal welfare.

Furthermore, we are working hard to confirm whether subcontractors of animal experiments and suppliers of animals used in experiments similarly conduct animal studies with appropriate consideration for animal welfare.

*3 The 3Rs: From the Law for the Humane Treatment and Management of Animals
Replacement: To the greatest extent possible, replace methods that involve animals with those that do not.
Reduction: To the greatest extent possible, reduce the number of animals used.
Refinement: To the greatest extent possible, refine methods to minimize the suffering of animals.

Responses to Latest Emergency Issues, Including Reducing Marine Plastic and Microplastics

Microplastics and marine plastic pollution have become a global problem in recent years. Recognizing the importance of this issue, Sumitomo Chemical quickly agreed to the measures of the Japan Plastics Industry Federation and bolstered its internal education system. We also participate in the International Council of Chemical Associations (ICCA) and Japan Chemical Industry Association's task force. We are working to keep abreast of the latest issues and are also proposing our comments to the aforementioned organizations.

Looking Ahead

Sumitomo Chemical promotes appropriate risk-based chemical management and continually conducts safety risk assessments of all products, including newly introduced items.

In response to strong social demand for the proper management of chemicals, the pace of establishment and revision of laws and regulations relating to chemical management is expected to pick up in even more countries and regions in the near future. Closely collaborating with Group companies in Japan and overseas, Sumitomo Chemical consistently undertakes thorough compliance initiatives that involve carefully studying information on the regulatory trends as well as enhancing the functions of its comprehensive chemical management system (SuCCESS).

In addition, we will optimize our quality assurance system to respond to globalization and increasingly complex business formats and supply chains as we continue to work to enhance the Group-wide quality assurance level so that customers can use Group products and services with peace of mind.

Responsibility to Our Customers

Basic Stance

Throughout the Group, Sumitomo Chemical is working to supply high-quality products and services that satisfy customers' recently diversifying needs and ensure safety in their use, and sales managers and customer consultation offices provide support tailored to products and specific details.

In addition, through the products and services we provide, we proactively address various issues surrounding sustainability, beginning with environmental problems.

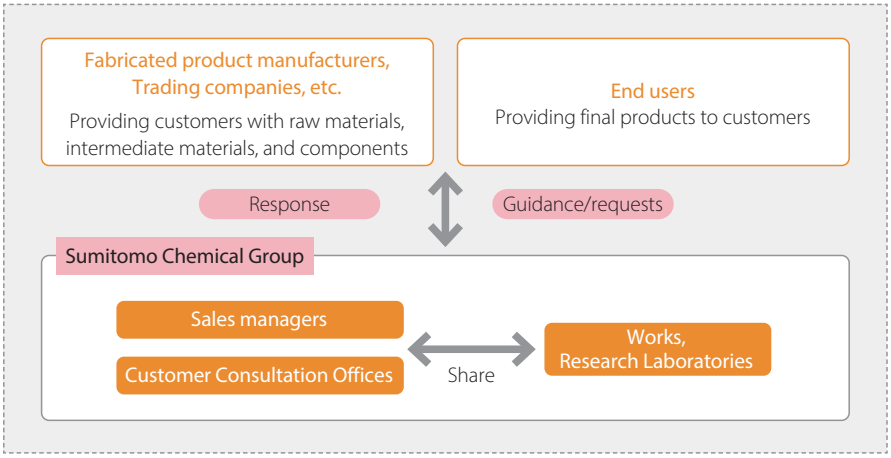
Business & Products

https://www.sumitomo-chem.co.jp/english/products/

Management System

Sumitomo Chemical works to accurately and rapidly reflect customers' requests in product development and improvement by sharing this information among Works, Research Laboratories, and sales personnel. In addition, data on customer inquiries and requests for improvements in product quality are stored on an internal database to prevent similar issues from occurring.

■ Customer Communication System



Responsibility to Our Customers

Examples of Initiatives

In this section, we will introduce the initiatives of the Health & Crop Sciences Sector and Pharmaceuticals Sector, which handle products that are more closely entwined with customers' daily lives.

Initiatives in the Rice Business

In autumn of 2014, Sumitomo Chemical started a business that handles everything from providing rice producers with original varieties of rice seed, crop protection chemicals, and fertilizers; supporting cultivation management; and buying and selling harvested rice.

We have teamed up with a range of business partners in agricultural regions, including producers; wholesalers of crop protection chemicals and fertilizers; agricultural cooperatives; and rice collectors. We've also joined with distribution partners, including rice wholesalers. Taking advantage of the unique characteristics of different rice varieties with regard to taste, flavor and yield, we have been engaged in producing commercial-grade rice seed, which is in high demand. In addition, in recent years, temperatures have been rising due to climate change, competitive rice varieties have emerged, the productivity of large-scale producers has risen, and demand and needs are changing. In response to these and other changes in the environment surrounding rice, the Company aims to accelerate the development of new varieties to meet the needs of both producers and customers through not only its own development but also open innovation. Going forward, we will continue to contribute to the development of Japan's agriculture through proactive new rice production proposals.

Initiatives of the AgroSolutions Division-Japan

Key Initiatives

The AgroSolutions Division-Japan is focusing on developing new sustainable agricultural technologies and products for smart agriculture and new biorational products, with an eye on developing and promoting new formulations with new effects and on the changing structure of agriculture going forward.

● Weedkillers for Rice Paddies

In smart agriculture, to make operations more efficient and less labor intensive, more agricultural drones are being utilized. In the field of herbicide for rice paddies, the Company is working to expand its series of the new formulation called FG (Floating Granule) formulation, which is self-diffusing and adapted to being sprayed by drones.

FG formulation product packaging and aerial photos of drone spraying

● Biorationals

The Sumitomo Chemical Group defines biorationals as naturally-derived microorganism-based crop protection products, plant growth regulators, and rhizosphere microbial materials, as well as the solutions that use them to protect crops from pests or improve the quality or yield of crops. In the field of biorationals, we further promote the research and development of products that contribute to sustainable agriculture.

● Fertilizers

The amount and rate of release of a fertilizer into the soil can be adjusted by coating the surface of the fertilizer particles with resin. The Company helps reduce environmental impact by developing coated fertilizers cloaked in resin films calibrated to degrade in soil.

Responsibility to Our Customers

Cooperating with Customers

The AgroSolutions Division-Japan operates the i-nouryoku website, which is a tool for disseminating information to support these businesses. Through this website, we provide vital data that helps a wide range of farmers. Besides the website, we also provide farmers with simple and easy-to-understand product information through social media platforms like Facebook and YouTube via posts and videos.

The division established a customer support office related to Sumitomo Chemical's crop protection chemical products, fertilizers, and plant growth regulators. The division promotes business operations based on the basic stance of prompt, appropriate, sincere service provided with an awareness of the customer's perspective and ensuring legal compliance.

In addition, we respond to questions about gardening. Consultants strive to closely engage with customers to ensure that they can properly and effectively use the Company's products.

Sumitomo Chemical i-nouryoku (Japanese only)
https://www.i-nouryoku.com/index.html

The YouTube channel of Sumitomo Chemical's AgroSolutions Division-Japan (Japanese only)
https://www.youtube.com/channel/UCk0GEjn4LXD7dxEf9uSfnIw

The Facebook page of Sumitomo Chemical's AgroSolutions Division-Japan (Japanese only)
https://www.facebook.com/住友化学アグロ事業部-101167691634705/

Initiatives of Sumitomo Chemical Garden Products

e-Green Communication

To meet the diversifying needs of users who enjoy gardening, Sumitomo Chemical Garden Products Inc. constantly works to upgrade its offerings, for example, via improved product containers, as well as to enhance services related to information dissemination and customer consultation. In addition, the company will continue to proactively conduct contribution and support activities through business to realize a sustainable society.

- AI image diagnostic tool, the Garden Doctor™ AI

The company is working to enhance its websites to ensure the provision of easy-to-understand information to a variety of gardeners. In addition, it began uploading videos to YouTube, with content not only ranging from product information videos to instructions on the preparation of diluents and how to read registration slips, but also including Garden Doctor TV, which covers cultivation methods for tomatoes or roses and other topics. As for customer consultations, in addition to answering questions via telephone and email, from April 2020 the company began providing web content via the Garden Doctor™ AI, an AI image diagnostic tool that enables anybody to easily diagnose plant diseases and pests at any time.

Sumitomo Chemical Garden Products Inc. official website (Japanese only)
https://www.sc-engei.co.jp

Sumitomo Chemical Garden Products' YouTube channel (Japanese only)
https://www.youtube.com/c/scengeich/playlists

Sumitomo Chemical Garden Products' Garden Doctor™ AI (Japanese only)
https://www.sc-engei.co.jp/gardendoctor.ai

Responsibility to Our Customers

BENICA X NEXT™ Spray

Sumitomo Chemical Garden Products is researching customer concerns through marketing surveys and working to develop products to solve those issues. The company developed a longer trigger for BENICA X NEXT™ Spray that is more comfortable and easier to pull even when spraying continuously.

Sumitomo Chemical Garden Products' BENICA X NEXT™ Spray (Japanese only)
https://www.sc-engei.co.jp/sp_contents/en/201902/benicaXnext

Grass Killer E Granules

The company is adopting an easy holding container for Grass Killer E Granules which is able to kill stubborn horsetail and other various weeds even down to their roots, making scattering easier.

Sumitomo Chemical Garden Products' Grass Killer E Granules (Japanese only)
https://www.sc-engei.co.jp/guide/detail/5364.html

Sumitomo Chemical Garden Products' Grass Killer E Granules (YouTube) (Japanese only)
https://www.youtube.com/watch?v=4oielqO-bw4

Grass Killer Mega Long Shower GT

The company is working hard to increase the usability of Grass Killer Mega Long Shower GT by developing its bottle through cooperative research with ergonomic experts in order to lighten users' burden, especially by enabling people without much physical strength to scatter the product easily.

Sumitomo Chemical Garden Products' Grass Killer Mega Long Shower GT (Japanese only)
https://www.sc-engei.co.jp/guide/detail/5318.html

Responsibility to Our Customers

To Protect the Global Environment

With regard to feasible cases, including products, raw materials, production field and other materials, the company is working as swiftly as possible to adopt materials that reduce environmental burden and aiming to switch over to 100% environmentally friendly products by 2030.

For example, for products and promotion tools, the company is prioritizing the use of environmentally friendly materials, paper, printing, inks and processes to reduce environmental burden.

About inks

The company is switching its printing ink to plant-based oil ink in order to steadily reduce the use of petroleum-based organic solvents.

About Containers

The company is working to use recyclable materials for reducing the use of plastic in packaging.

Easily crushable eco bottles

The company is contributing to the reduction of waste.

Soft packaging

The company is contributing to the reduction of the use of plastic.

Recyclable materials

The company is using recyclable PET.

The company is acting as a registered member in Plastics Smart (use and reduce plastic containers).

Plastics Smart

Initiatives of Sumitomo Chemical Garden Products over sustainability (Japanese only)

https://www.sc-engei.co.jp/sustainability/initiatives.html

Responsibility to Our Customers

Initiative for Access to Healthcare

Sumitomo Chemical started its pharmaceuticals business as the first Japanese company to manufacture synthetic pharmaceuticals based on its advanced organic synthesis technology. Our Group company Sumitomo Pharma Co., Ltd. considers the below listed items to be part of its duty to its customers in the pharmaceutical business.

Conduct Responsible Advertising and Marketing

(Refer to section "12. Cooperation with Healthcare Professionals, etc.," "13. Sales, Marketing and Information Communication Activities" of Sumitomo Pharma's Compliance Standard for more details.)

● Our approach to promotional activities for healthcare professionals

In compliance with the IFPMA Code of Practice, the JPMA Code of Practice, and Guidelines for Prescription Drug Marketing Information Provision issued by the Ministry of Health, Labour and Welfare, Sumitomo Pharma has drawn up the "Rules for Marketing Information Provision" and established the "Department Responsible for Supervising Marketing Information Provision." The Department Responsible for Supervising Marketing Information Provision supervises and provides guidance to departments that implement detailing activities, examines and approves materials, carries out monitoring as well as education and training for officers and employees, operates a complaints desk and handles complaints. As an advisory body to the Department Responsible for Supervising Marketing Information Provision, we have established the "Review and Supervisory Committee," which is held regularly. It has an external chairperson who is completely independent of our company.

Sumitomo Pharma has drawn up internal rules for the examination of materials for use in promotional activities titled "Rules for Examination of Materials Used in Marketing Information Provision" and created an internal structure for examination and approval of such materials.

https://www.sumitomo-pharma.com/sustainability/fair_and_transparent/promotion.html

Contribution to Global Health

● Countermeasures to Antimicrobial Resistance (AMR) and Initiatives for the Appropriate Use of Antibiotics

Sumitomo Pharma is conducting joint research with a drug discovery group of Kitasato Institute.

As a partnership initiative with the Ministry of Health of Vietnam, Sumitomo Pharma and the National Center for Global Health and Medicine jointly commenced an antibiotic susceptibility surveillance study in Vietnam in order to contribute to antimicrobial resistance (AMR) countermeasures and promote the proper use of antibiotics in Vietnam.

● Efforts for Eradication of Malaria

Sumitomo Pharma is working on the research and development of malaria vaccines in collaboration with Ehime University and the global organization PATH, and supports the initiatives for the eradication of malaria in several countries in Asia and Africa.

https://www.sumitomo-pharma.com/sustainability/global_health/contribution_to_global_health.html

Initiatives to Improve Access to Medicines

● Targets for Initiatives to Improve Access to Medicines

As described to the right, Sumitomo Pharma established the targets for initiatives to improve access to medicines, which is a material issue linked to value creation.

- Promotion of public awareness-raising activities with the aim of improving medicine-related literacy
- Response to requests for the development of unapproved and off-label drugs
- Acceleration of provision of drugs at fair prices

https://www.sumitomo-pharma.com/sustainability/management/materiality.html

Responsibility to Our Customers

Transparency in Partnerships with Patient Groups and Medical Institutions

As a member of the Japan Pharmaceutical Manufacturers Association (JPMA) which issued its Transparency Guideline for the Relation between Corporate Activities and Medical Institutions and its Transparency Guideline for the Relation between Corporate Activities and Patients' Groups, Sumitomo Pharma established its own Guidelines for Transparency in Partnerships with Medical Institutions in October 2011 and Guidelines for Transparency in Partnerships with Patients' Groups in April 2013. In accordance with these guidelines, the company publicly disclose information on its corporate website on such issues as payments that the company make to medical institutions, healthcare professionals, patient groups and patient advocacy groups.

https://www.sumitomo-pharma.com/sustainability/fair_and_transparent/promotion.html

Providing Employee Training

- Compliance Education and Training

Sumitomo Pharma provides all its employees with annual compliance education and training on a number of topics that include corruption, insider trading, the harmful effects of drugs, and harassment. A booklet about the Compliance Standards is used in compliance workshops held at the workplace level. Group companies in and outside Japan are required to provide similar compliance education and training programs.

https://www.sumitomo-pharma.com/profile/compliance/

Sumitomo Pharma's Efforts against the Novel Coronavirus Disease (COVID-19)

Sumitomo Pharma is addressing the stable supply of its pharmaceutical products, minimization of impact on its research and development activities, and support for research on COVID-19 in addition to supporting activities for preventing the spread of COVID-19. The company also takes measures to ensure the safety and health of its stakeholders, including its employees and their families, and to prevent the spread of COVID-19. Specific actions are detailed below.

1. Stable supply of pharmaceutical products
2. Impacts on R&D activities
3. Research support activities
4. Support activities to prevent the spread of COVID-19
5. Measures to prevent the spread of infection inside and outside the company

https://www.sumitomo-pharma.com/covid-19.html

Looking Ahead

Collecting information through close consultation with internal and external partners, and maintaining a proactive attitude when listening to our customers' opinions, Sumitomo Chemical remains committed to continuously providing products that satisfy the needs of its customers. Moreover, the Company is expanding information disclosure in order to provide our customers with vital information in the most appropriate manner. Through these initiatives, we ensure the supply of safe and secure products and realize a sustainable society.

Communities

Basic Stance

Based on the concept of contributing to establishment of a sustainable society through the sustainable growth of business, the Sumitomo Chemical Group is committed to social contribution activities undertaken from three perspectives: securing safety and health, and protecting the environment; raising children who will lead the next generation; and assisting in natural disaster relief.

Regarding communication with society, while enhancing information disclosure and engaging in interactive dialogue, Sumitomo Chemical, its worksites in Japan and overseas, and Group companies engage in a variety of activities to ensure harmonious coexistence with local communities, thereby building good relations with them.

■ Sumitomo Chemical's Social Contribution Activities

Securing Safety and Health, and Protecting the Environment

- Work and research laboratory tours
- RC dialogues and distribution of local newsletters
- Malaria prevention campaign
- TABLE FOR TWO program
- Matching Gift program (support for tree-planting activities)
- Cooperation with U.N. activities
- Support for infection control measures

Raising Children who will Lead the Next Generation

- Establishment of in-house childcare facilities
- Launch of Young Inventors' Club, Science Workshops, etc.
- Sponsorship of community sports events
- Cooperation on civic and university courses
- Acceptance of student interns
- Matching Gift program (educational and developmental support for children)
- Educational support in Africa
- University scholarship programs

Assisting in Natural Disaster Relief

- Relief activities after typhoons, earthquakes, and other disasters, Offering facilities for Public use after major disasters
- Relief donations for victims of hurricanes, earthquakes, etc.

Management System

We are promoting Sumitomo Chemical's social contribution activities throughout the entire Sumitomo Chemical Group, including Sumitomo Chemical's Head Office, each worksite, and each Group company. To encourage such activities across the Group, we hold manager meetings attended by social contribution managers from each worksite. These meetings enable attendees to share information about their activities and exchange opinions. In addition, Group companies in Japan share information and exchange opinions through Domestic Group Company Liaison Meetings held by each functional department.

We are cooperating with the labor union in planning and conducting certain social contribution activities.

Communities

Goals and Results

The results of the main social contribution activities undertaken by Sumitomo Chemical and its Group companies in Japan are as follows.

FY2021 Main Social Contribution Activities at Bases in Japan (Sumitomo Chemical*1)

Type of Activity	Number of Events
Education for the next generation*2 (including science classes held at schools, children's office visits)	9
Cleaning beaches and neighborhoods around worksites	40
Worksite tours, community dialogues, hands-on work experiences	9
Hosting and participating in regional sports competitions, festivals, and other events	5

*1 Include some Group companies in Japan
*2 Includes content related to the SDGs and sustainability

Volunteers for the OISCA Coastal Woodland Rejuvenation Project (Sumitomo Chemical Group*3)

(No. of people)

	FY2019	FY2020	FY2021
Number of volunteers for the OISCA coastal woodland rejuvenation project*4	23	0*5	0*5

*3 Sumitomo Chemical and Group companies in Japan participating in the Matching Gift program
*4 Volunteer activities in Natori, Miyagi Prefecture
*5 Suspended due to the pandemic

P.236 Support for Recovery from the Great East Japan Earthquake

Major Donations in FY2021 (Sumitomo Chemical)

(Million yen)

Item	Amount
Emergency aid for Ukraine	10.0
To support education in Africa (Plastic Recycling Education)	5.5
To support the development and education of children through ASHINAGA (Matching Gift program)	7.0
To support OISCA's tree planting activities (Matching Gift program)	6.1
Monetary donations in response to torrential rains in 2021 (July, August)	0.6
TABLE FOR TWO (Matching Gift program)	1.3

Note: Donation figures for Matching Gift programs are the amount of money provided by the Company.

Communities

Number of Major Donations in FY2021 (Sumitomo Chemical)

Total number of donations: 239

Item	Number of cases
Local community activities	83
International exchange and cooperation	17
Sports	5
Academic study and research	13
Culture and art	13
Education and social education	21
Social welfare	17
Environment	8
Support to areas devastated by disasters	4
Others	58

Examples of Initiatives

Securing Safety and Health, and Protecting the Environment

Initiatives to Ensure Safety at All Group Workplaces

The Sumitomo Chemical Group aims to achieve zero severe accidents across all workplaces, as per the basic principle of "Making safety our first priority." To this end, we have ramped up our efforts to ensure safety by communicating thoroughly to make sure everyone observes the Safety Ground Rules, which are common to all Group employees, evaluating and improving the level of safety culture in workplaces, raising the level of safety management with the use of IoT technology, and reviewing and reinforcing natural disaster prevention measures. Through dialogues with residents in the region, we explain to neighboring residents our efforts to ensure safety, and work to deepen our mutual understanding.

Status of Dialogues with Local Communities

FY2021 Results*

Number of dialogues held	Participants
17	**90**

* Cumulative result of each Sumitomo Chemical worksite

Notes:
- The number of participants was limited due to the pandemic, and dialogues were held at each worksite
- Separate from the above, in conjunction with other companies in the Oita region, we held written dialogues only (one time)
  Copies were distributed to 220 people
  (nearby resident participants: 180; others: 40)

Cleanup Activities

Through cleanup activities mainly in business site regions and at beaches, we are helping solve the plastic waste problem. For example, as part of measures to tackle marine plastic waste, Misawa Works conducts cleanup activities of washed up plastic waste along the Sabishiro beach every year.

Cleanup activities at Sabishiro Beach

Communities

Promoting Responsible Care Realization Project in the Environmental Field (DONGWOO FINE-CHEM (South Korea))

DONGWOO FINE-CHEM promotes green management activities internally and externally by sharing environmental technologies with stakeholders from the perspective of environmental and safety management. As examples of sustainable management in fiscal 2020, the company received the Korea Green Management Award from the government (Ministry of Trade, Industry and Energy) and the Social Value Creation Grand prize from a customer (SK Hynix). In addition, this project was awarded the Sumitomo Chemical Group's Responsible Care Grand Award 2021.

Environmental Technology Support Activities

We are working to raise the environmental management standards of local communities. For example, we designed a system* from the development stage in a way that allows it to be used not only by DONGWOO FINE-CHEM but also other companies and provide it to companies that need it free of charge.

* Main functions of the system: Environmental measurement data management, emission allowance standard alarms, legally mandated period management, confirmation of various trends, and management of waste and production records

Environmental Consulting Activities

DONGWOO FINE-CHEM provides a consultation service covering onsite response and document management for companies in the area where it is located (Pyeongtaek, South Korea) and works to prevent environmental pollution accidents.
(FY2019: 8 companies; FY2020: 9 companies)

Environmental Education Activities

Environmental education is provided to local companies twice every year.

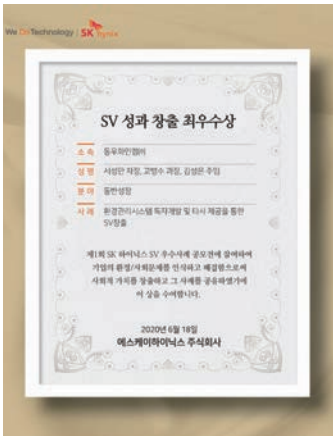
2018: Chemical management education and DONGWOO FINE-CHEM's environmental management activity case study education

2019: Air and odor management education and environmental management system briefings

Note: Activities have been delayed in 2020 due to the pandemic.

Environmental education for local companies

Korea Green Management Award
(Ministry of Trade, Industry and Energy)



Social Value Creation Grand prize
(SK Hynix)

Communities

Plastic Waste Reduction Initiatives (Bara Chemical (Thailand))

To solve issues related to plastic waste, including the marine plastic problem, Bara Chemical promotes a variety of initiatives in employees' daily lives in addition to reducing plastic waste emitted from worksites.

• Raising Awareness through the Internal Newsletter

Through the Internal Newsletter, Bara Chemical shares information related to the impact of its plastic waste on marine and other ecosystems as well as the recycling methods, thereby raising awareness among all employees about resource recycling.

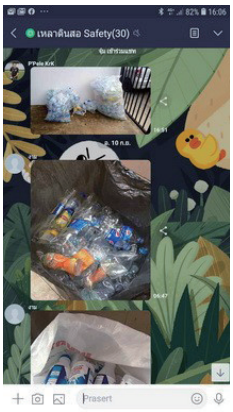
Internal newsletter

• Creating Social Media Chat Groups

Bara Chemical has also created chat groups on social media platforms. To enable everyone to design initiatives to reduce plastic waste in their daily lives, the chat groups share good practices and the status of activities as well as encourage communication among employees.

• Establishment of a Plastic Bottle Collection Center

Because in Thailand most household garbage is disposed of in landfills without being separated, the company established an in-house plastic bottle collection center. Plastic bottles that are not needed internally or externally are collected and processed by recycling companies, contributing to the reuse of plastic bottles. To enhance employees' motivation, the company conducted initiatives to record the weight of plastic bottles brought in by each person. As a result, since the center's establishment in 2019, the volume of plastic bottles collected has increased every year.


Chat screen

(Kg)

	FY2019	FY2020	FY2021	Total
Volume of plastic bottles collected	72	613	878	1,563


Plastic Bottle Collection Center

• Creating and Distributing Cloth Shopping Bags

Bara Chemical creates cloth shopping bags and distributes them not just to its own employees but also to employees of business partners and affiliates. In this way, the company is promoting activities to raise awareness of reducing waste plastic across a wider scope.

Cloth Shopping Bags

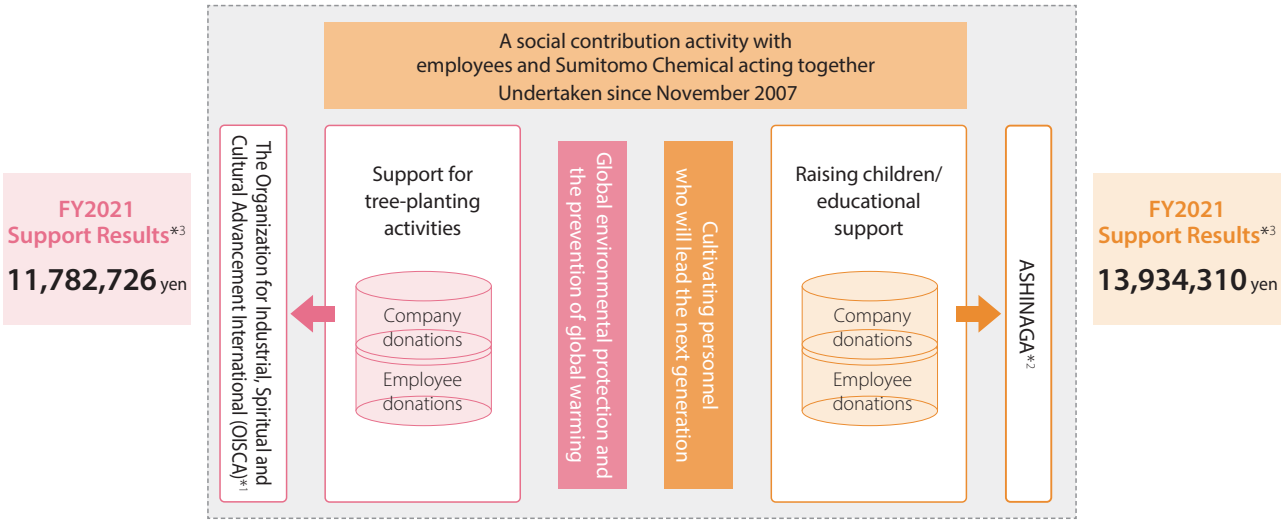
Communities

Matching Gift Program

As a social contribution activity with employees and the Sumitomo Chemical Group acting together since 2007, the matching gift program, which is run in collaboration with the labor union, collects donations from executives and employees working at Sumitomo Chemical and Group companies. Sumitomo Chemical then matches their donations.

One of the beneficiaries of the donations from the matching gift program is the Organization for Industrial, Spiritual and Cultural Advancement International (OISCA)*1, with whom we work on various tree-planting projects. In collaboration with the labor union, we have been dispatching employee volunteers to help with these projects since 2008.

■ Matching Gift Program



*1 The Organization for Industrial, Spiritual and Cultural Advancement International (OISCA) is a global NGO engaged in rural development and environmental protection, mainly in the Asia-Pacific region. The money donated by Sumitomo Chemical to this organization is used for its Children's Forest Program and Japan's Coastal Forest Restoration Project following the Great East Japan Earthquake.

*2 ASHINAGA is an NPO established to provide physical and mental support for children who have lost their parents because of illness, accidents, or for other reasons. The money donated to this organization is used to provide a scholarship fund for these orphans.

*3 Sums after matching by the Company

TABLE FOR TWO Activities

Since May 2008, each of Sumitomo Chemical's worksites has participated in the TABLE FOR TWO (TFT) initiative. Participating companies in this matching gift program donate an amount of money equal to the total donated by executives and employees.

When employees choose to eat any of the healthy TFT menu options available at the Company's cafeterias, 20 yen per meal is donated to help fight starvation in developing countries as well as obesity and lifestyle diseases in advanced nations. Through these types of social contribution activities originating in Japan, we are working to eliminate food disparity.

For the Company's support in 2021, Sumitomo Chemical received a letter of appreciation as a Platinum Partner from the TABLE FOR TWO secretariat.

2021 Results

652,760 yen **16,319** meals

(Sums after matching by the Company)


感 謝 状

ゴールドパートナー

住友化学株式会社様

皆さまからお寄せいただいた TABLE FOR TWO へのご支援により、飢餓や栄養不足にさらされているアフリカ、アジアの多くの子どもたちに、温かい食事と未来への希望を届ける事ができました。
継続的な力強いご支援・ご協力に心より感謝申し上げます。

2022年3月

特定非営利活動法人 TABLE FOR TWO International

代表理事 小 暮 真 久

Communities

Nurturing the Children of the Next Generation

Supporting Education through Science Workshops

The Sumitomo Chemical Group holds science workshops for children to conduct experiments and make crafts. These workshops enable them to experience the wonders and appeal of science with their own hands, in order to convey in a manner that children can easily understand how the products all around them are linked to chemicals.

These science workshops are held during tours of plants and research laboratories and through class visits, including at schools near worksites and at summer vacation events sponsored by local municipalities. Every year, we receive feedback from regular schools, community schools,*1 and other institutions telling us that local children enjoy these workshops. In fiscal 2021, after taking thorough precautions to prevent the spread of COVID-19, we held workshops at a limited number of worksites.

In addition, the Tsukuba Regional Research Laboratory dispatched the Company's researchers as teachers to Tsukuba Children's Questions 2022, a science event held by the city for children, to explain the possibilities and expectations of the future enabled by the power of chemistry.

At Ehime Works, so that children who could not go outside due to the pandemic could still have fun at home, in continuation from the previous year, videos were produced in collaboration with Ehime Works veteran employees entitled, "Science Experiments and Crafts You Can Do at Home!"*2 (Vol. 4–6). They have been made available on YouTube for anyone to watch at their convenience.

Children conducting a science experiment

The website for Tsukuba Children's Questions

Screenshots from the videos

"Science Experiments and Crafts You Can Do at Home!"
vol.4 Let's make and play with a paper cup robot
vol.5 Let's try to make a motor
vol.6 Acidic or alkaline? ~Let's investigate through changing colors~

*1 Community schools (school management councils): Promoted by the Elementary and Secondary Education Bureau of the Ministry of Education, Culture, Sports, Science and Technology, these systems enable guardians and local communities to participate in efforts to solve various issues schools face in order to support the autonomous growth of children in each grade.

*2 Video production collaborators: The Akagane Museum, heart network (heart TV: a cable TV channel in Niihama City and Saijo City), and Sumitomo Chemical Ehime Shayuukai (the Company's organization for former employees)

"Science Experiments and Crafts You Can Do at Home!" (Japanese only)

https://youtube.com/playlist?list=PLdCPE61HN0W7Jcys1mzqLjrVl52fjvJLY

Communities

12th *Eco Proverb* Contest

As an Eco-First Company certified by Japan's Ministry of the Environment and as a participating company in the Eco-First Promotion Council,* Sumitomo Chemical is a cosponsor of the *Eco Proverb* Contest.

The council takes measures to foster environmental awareness among children, the leaders of the future, by providing them opportunities to think about the kind of world they want to be living in 2030, the goal year for the SDGs. In fiscal 2021, the theme was "We wonder what we can do to preserve the rich and beautiful Earth for the future: What kind of the Earth do we want to make in 2030?" The council collected self-written proverbs created by elementary and middle school students across Japan. As one of the companies that provide corporate awards, Sumitomo Chemical selected the following work that embodies its vision aiming to solve the waste problem, including waste plastics, for the Sumitomo Chemical Award in FY2021.

* This council comprises 56 Eco-First Companies certified by the Minister of the Environment as the best in their industry regarding environmental conservation. Each participating company collaborate across industries to promote environmental conservation activities.

Sumitomo Chemical Award

ゴミひとつ　向き合うだけで　変わる明日

Only even confronting
A single piece of garbage
Changes the future

(The English text is a translation of the original Japanese composition above)

Riki Fujii

(5th grader at Nishinomiya city Harukaze Elementary
(as of receiving the award in 2021))

Awards ceremony (Right: Riki Fujii, Left: Takanori Ito, Executive Officer, Responsible Care Dept., Sumitomo Chemical)

Judging Results of the 12th *Eco Proverb* Contest (Japanese only)

https://www.eco1st.jp/wp-content/uploads/2022/03/0f112f3eda0f0a6b5c9f718b21401f48.pdf

Communities

Support for Education in Africa

Because Sumitomo Chemical believes that Africa needs to build a better educational environment for children in order to break free from poverty and achieve sustainable economic development, since fiscal 2005, the Company has been supporting education to support children, on whom the continent's future rests. At first, we mainly supported the construction of schools, but, after studying how to best offer support as a chemicals company, we branched out into supporting female students and programs in science as well as ICT-related education.

From fiscal 2020, we further revised the focus of our support mainly in light of new calls for social contributions, such as for taking action to address critical global environmental problems, and now mainly support awareness raising activities regarding the waste plastic problem and recycling, issues connected to the Company's businesses.

Supporting Plastic Recycling Education in Nigeria

Sumitomo Chemical donated US$50,000 in fiscal 2021, in continuation from the previous year, to the Clean Our World (COW) Project, which is run by the Nigeria-based Oando Foundation with the aim of raising awareness of plastic recycling. Over 32 million tons of garbage are generated in Nigeria every year, and more than 30% of that is classified as plastics. Currently, most of the plastic is not properly disposed of. It sometimes clogs pipes causing flooding and is also washed into the ocean via West Africa's main waterway, the Niger River. To resolve this situation, the Oando Foundation established the COW Project in 2020. In fiscal 2021, as the second year of the initiative (COW Ⅱ Project), in addition to clean-up activities, we launched initiatives to collect local waste and provide education related to recycling and the plastic waste problem, expanding the scope of included schools and regions. Around two tons of plastic waste collected through this initiative were converted into school supplies and other products and given to children.

In its Corporate Business Plan from fiscal 2022, Sumitomo Chemical outlined contribution in environmental fields as one of management's material issues, specifically contribution to the recycling of resources. Accordingly, in addition to the development and supply of products connected to reducing and reusing plastic, in recent years we have been promoting the development of multiple chemical recycling technologies jointly with other companies and academic institutions.

Going forward, Sumitomo Chemical will continue to help improve the educational environment for children in Africa and actively promote initiatives aimed at resolving social issues on a global scale.


A local clean-up activity

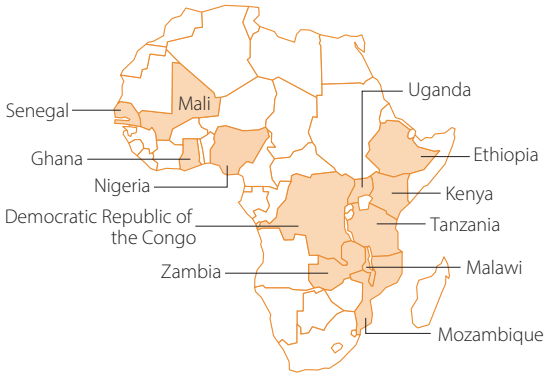
A collection box for waste plastic


Before cleaning


After cleaning

Communities

Support for Education in Africa



Support Results

Beneficiaries: over **48,000** people

Supported countries: 12
(32 projects completed, 1 projects under way)

Support Results

Country	Collaborator	Support details
Tanzania	WVJ*1	Between 2005 and 2007, we built elementary schools, teacher housing, and other structures. In 2014, we built elementary schools and restrooms.
Kenya	WVJ*1	In 2005 and 2006, we built girls' dormitories, restrooms and other structures for elementary schools. In 2015, we built elementary schools and provided math and science teaching materials.
Zambia	WVJ*1	Between 2005 and 2007, we built middle schools, restrooms, teacher housing, and other structures.
Uganda	WVJ*1	In 2006, we built elementary schools, restrooms, and other structures. Between 2008 and 2011, we built schools, restrooms, and other structures. In 2019 and 2020, we built classrooms for elementary schools and raised awareness of malaria prevention techniques.
Ethiopia	WVJ*1	In 2007, we built elementary schools, middle schools, restrooms, and other structures. In 2013, we built elementary schools, restrooms, water storage tanks, and other structures.
Mali	PIJ*2	Between 2010 and 2012, we built elementary schools, restrooms, wells, and other structures.
Ghana	PIJ*2	Between 2010 and 2012, we built elementary schools, libraries, and other structures. In 2015 and 2016, we built technical schools, science laboratories, and other structures. In 2019 and 2020, we built technical high schools, science laboratories, and other structures, provided teaching materials, and provided training to teachers.
Malawi	WVJ*1	Between 2010 and 2012, we built elementary schools and other structures. In 2013, we built elementary schools, restrooms, and other structures.
Democratic Republic of the Congo	WVJ*1	In 2012 and 2013, we built elementary schools, restrooms, and other structures. Between 2016 and 2019, we built elementary schools, restrooms, and other structures, provided math and science teaching materials, provided training to teachers, and raised awareness of malaria prevention techniques.
Mozambique	PIJ*2	In 2012 and 2013, we built elementary schools, restrooms, and other structures.
Senegal	PIJ*2	In 2014 and 2015, we built elementary schools, restrooms, and other structures and provided training to school management committees. Between 2016 and 2019, we built middle schools, high schools, and restrooms, set up science laboratories, and enhanced science courses for girls.
Nigeria	Oando*3	Between 2017 and 2020, we set up ICT centers, provided computer peripheral equipment, and provided science, technology, engineering, and math (STEM) education. In 2020 and 2021, we carried out the "Clean Our World" (COW) project and "Clean Our World Ⅱ" (COW Ⅱ) project.

*1 WVJ: World Vision Japan
*2 PIJ: Plan International Japan
*3 Oando: The Oando Foundation of the Federal Republic of Nigeria

Communities

Assisting in Natural Disaster Relief

Support in Response to Torrential Rains in 2021 (July, August)

After torrential rains in 2021 (July, August), we provided a monetary donation of 600 thousand yen through the Red Cross Japan.

Support for Recovery from the Great East Japan Earthquake

Since the Great East Japan Earthquake of 2011, we have been promoting initiatives involving employee participation to keep the memory of the disaster fresh in people's minds. We have also been providing donations collected through the sale of "Disaster Hit Area Support Meals" served in our cafeterias since April 2011. Under this scheme, a portion of sales is donated to a business that aids orphans in areas hit by the disaster, and the companies match that amount.

Since fiscal 2013, through the matching gift program, we have participated in the OISCA coastal woodland rejuvenation project aimed at rejuvenating black pine coastal woodlands in Natori, Miyagi Prefecture.

Since fiscal 2015, we have dispatched employee volunteers to the area to provide black pine saplings, plant trees, and weed and fertilize areas where trees have been planted with the aim of rejuvenating about 100 hectares of coastal woodland. These activities were suspended in fiscal 2021 in continuation from the previous fiscal year, however, to prevent the spread of COVID-19. We have already achieved our planting goal, and, going forward, we will continue to help manage the planted black pines on a voluntary basis.

FY2021 Results

Disaster Hit Area Support Meals

632,720 yen **15,818** meals

(Sums after matching by the Company)

The Great East Japan Earthquake Miyagi Children's Education Fund 239,920 yen 5,998 meals
(the portion used between March 2021 and August 2021)

The Great East Japan Earthquake Fukushima Children's Fund 392,800 yen 9,820 meals
(the portion used between September 2021 and February 2022)

Examples of Social Contribution Activities (Japanese only)

https://www.sumitomo-chem.co.jp/sustainability/files/docs/social_contribution_activities.pdf

Communities

Coexistence with Local Communities

Disclosing Information and Holding Diverse Interactive Dialogues Rooted in Local Communities

Sumitomo Chemical, with the understanding and cooperation of local communities, works to foster smooth communication to continue conducting better business activities as a community member.

Every year, all worksites create and publish their own environmental and safety reports, detailing the initiatives taken at each worksite. In addition, the Ehime, Osaka, and Oita worksites publish community newsletters that are inserted into newspapers as a way to disseminate information that is especially relevant to their communities. Moreover, we proactively cultivate diverse two-way dialogue from a wide range of perspectives. Our activities include regular dialogue meetings, opinion exchanges, and Works tours held with local community members at each worksite, conducting risk communication model businesses in cooperation with municipalities, conducting support businesses focused on the environment and safety for local governments and companies, and holding community dialogues in collaboration with the chemical industry.

Going forward, we will continue working to foster greater understanding of the Company and earning more trust while continually exchanging opinions with various stakeholders in local communities and disseminating necessary information.

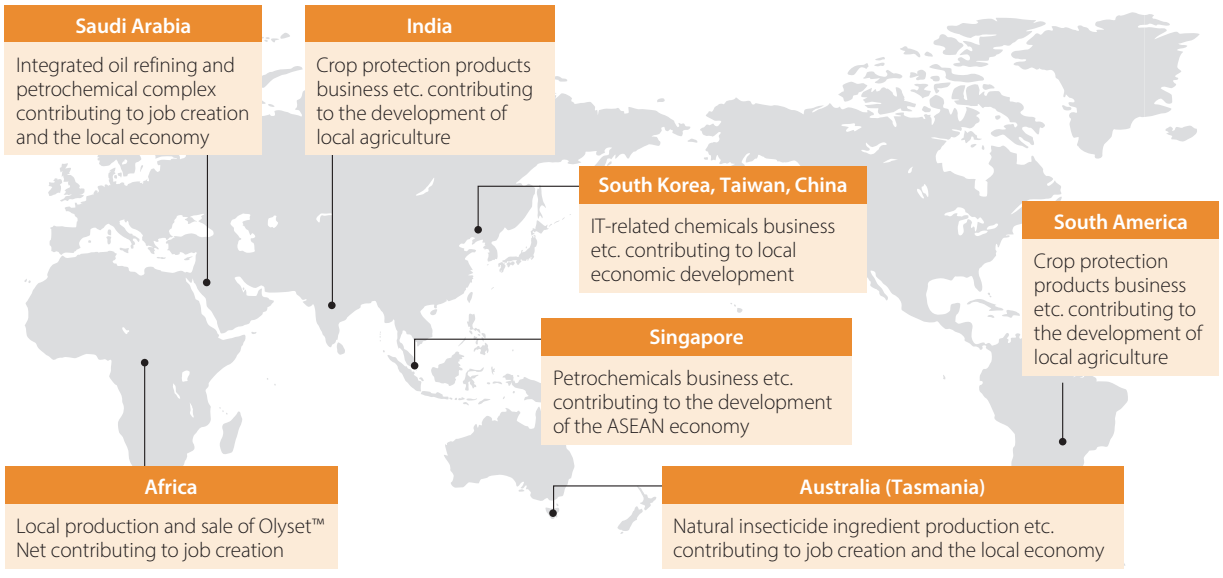
Report on the Environment and Safety (at all worksites) (Japanese only)

https://www.sumitomo-chem.co.jp/sustainability/information/library/

Coexistence with Each Country and Region

Sumitomo Chemical has rolled out diverse activities that meet the needs of local communities and worked hard to build solid relationships with everyone in the community. In addition, through our global business development, we contribute to the economic development of each country and region.

■ Contributing to economic development in each country and region



Looking Ahead

In order to maintain the trust of local communities, Sumitomo Chemical will promote its social responsibilities by making various social contributions distinctive to the Sumitomo Chemical Group that lead to solving global problems and coexistence with local communities through various activities.

Social Activities: Supplementary Data

★: Assured by an independent assurance provider

1 Human Resources

Basic Data

■ Number of Employees, Average Age, Length of Service, Average Compensation

Item		FY2019	FY2020	FY2021
Number of employees (Sumitomo Chemical Group)	Total	33,586	34,743	34,703★
	Male	25,005	25,740	25,582★
	Female	8,581	9,003	9,121★
	Percentage of female employees (%)	25.5	25.9	26.3
Sumitomo Chemical	Total	6,214	6,277	6,488★
	Male	5,269	5,299	5,464★
	Female	945	978	1,024★
	Percentage of female employees (%)	15.2	15.6	15.8
Consolidated in Japan	Total	12,292	12,486	12,242★
	Male	9,521	9,610	9,373★
	Female	2,771	2,876	2,869★
	Percentage of female employees (%)	22.5	23.0	23.4
Consolidated overseas	Total	15,080	15,980	15,973★
	Male	10,215	10,831	10,745★
	Female	4,865	5,149	5,228★
	Percentage of female employees (%)	32.3	32.2	32.7
Number of non-Japanese employees (Sumitomo Chemical)		78	76	71
Average age (Sumitomo Chemical)		40.9	41.0	41.2
	Male	41.1	41.2	41.5
	Female	40.1	40.0	39.9
Average length of service (years; Sumitomo Chemical)		15.3	15.5	15.4
	Male	15.4	15.7	15.6
	Female	14.5	14.5	14.0
Average annual compensation (yen; Sumitomo Chemical)		8,906,426	8,557,134	8,835,658
Average monthly wages (yen; Sumitomo Chemical)		323,872	327,761	332,434
	Male	324,170	328,711	333,912
	Female	322,537	323,577	326,164

Notes: • The above figures are as of March 31 for each fiscal year. Employee numbers do not include temporary employees, part-time staff, dispatch employees, and staff assigned to other companies not included in the scope of consolidation, but do include staff assigned from other companies not included in the scope of consolidation.
• Average monthly wages are for non-managerial employees (as of August of each year). Compensation is the same for the same work and the overall difference in compensation between men and women is entirely attributable to differences in age and rank.

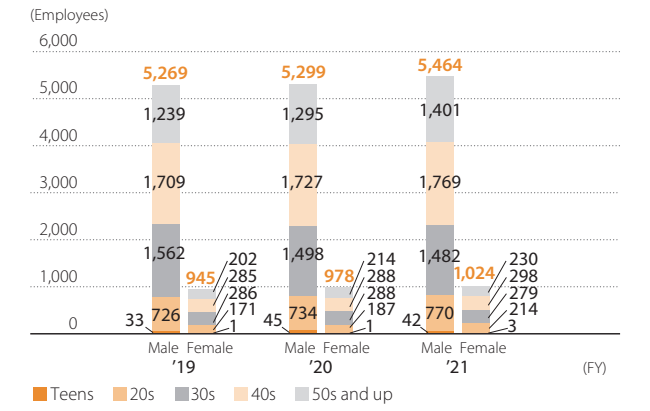
Social Activities: Supplementary Data

Number of Employees by Region and Gender (Sumitomo Chemical Group)

Region			FY2019	FY2020	FY2021
Japan	Total		18,505	18,762	18,729
		Male	14,789	14,908	14,836
		Female	3,716	3,854	3,893
(The rest of) Asia	Total		10,825	10,836	10,602
		Male	7,788	7,819	7,650
		Female	3,037	3,017	2,952
North America	Total		3,214	3,466	3,676
		Male	1,730	1,822	1,905
		Female	1,484	1,644	1,771
Central and South America	Total		191	865	942
		Male	130	636	680
		Female	61	229	262
Europe	Total		618	586	575
		Male	429	395	384
		Female	189	191	191
Middle East and Africa	Total		134	122	77
		Male	93	86	55
		Female	41	36	22
Oceania	Total		99	106	102
		Male	46	74	72
		Female	53	32	30
Total	Total		33,586	34,743	34,703

Note: As of March 31 for each fiscal year

Employee Age Composition and Distribution (Sumitomo Chemical)



Social Activities: Supplementary Data

Number of New Graduate and Mid-career Hires, Percentage of Mid-career Hires (Sumitomo Chemical)

Results		FY2019	FY2020	FY2021
New graduate hires	Male	138	168	153
	Female	51	55	39
	Total	189	223	192
Mid-career hires	Male	27	21	66
	Female	8	3	7
	Total	35	24	73
Percentage of mid-career hires (%)	Total	15.6	9.7	27.5

Number of Internships (Sumitomo Chemical)

Results	FY2019	FY2020	FY2021
University students in Japan	483	727	196
University students overseas	4	0	0

Number and Percentage of People Who Left the Company (Sumitomo Chemical)

	FY2019			FY2020			FY2021		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Retired early	62	53	9	67	56	11	90	71	19
Early retirement rate (%)	1.0	1.0	1.0	1.1	1.1	1.1	1.4	1.3	1.9

Retention of New Graduate Hires (Sumitomo Chemical)

	Male	Female
New graduate hires in April 2019	136	50
Number of those remaining as of April 2022	124	49
Retention rate of new graduates after three years (%)	91	98

Promotion of DE&I

Promotions of Employees (Sumitomo Chemical) As of April 1, 2022

	Female	Male	Non-Japanese	Percentage of Female (%)
Managerial employees*	139	1,844	16	7.0
(Those ranked general manager or above)	13	464	2	2.7
Directors and senior management	2	47	3	4.1
(Those ranked executive officer or above)	1	31	3	3.1

* All employees equivalent to managers or above

Social Activities: Supplementary Data

Number of Managers and General Employees, Percentage of Female Employees (Sumitomo Chemical Group)

		FY2019	FY2020	FY2021
Managers	Male	8,594	8,710	9,242
	Female	1,743	1,750	2,604
	Total	10,337	10,460	11,846
	Percentage of female managers (%)	16.9	16.7	22.0
General employees	Male	16,411	17,030	16,340
	Female	6,838	7,253	6,517
	Total	23,249	24,283	22,857
	Percentage of female managers (%)	29.4	29.9	28.5
Total		33,586	34,743	34,703

Note: As of March 31 for each fiscal year

Work-Life Balance

Percentage of Paid Vacation Days Used (Sumitomo Chemical)

	FY2019	FY2020	FY2021
Number of days of paid vacation provided	20.0	20.0	20.0
Number of days of paid vacation used	14.7	14.4	15.2
Percentage of paid vacation days used (%)	73.9	72.2	76.2

Average Overtime Work (Sumitomo Chemical)

(Hours/Month)

	FY2019	FY2020	FY2021
Average overtime hours	20.7	20.7	21.5

Return Rate of Employees Who Take Cessation from Work for Childcare (Sumitomo Chemical)

(%)

	FY2019	FY2020		FY2021	
	Female	Male	Female	Male	Female
Of employees who finished childcare leave within the fiscal year, percentage of employees who returned to work	100.0	100.0	100.0	100.0	99.0

Leave for Volunteer Work and Number of Employees Using Leave for Volunteer Work (Sumitomo Chemical)

	System in place	FY2019	FY2020	FY2021
Vacations for volunteering	Yes	21	3	4

Social Activities: Supplementary Data

2 Occupational Safety and Health / Industrial Safety and Disaster Prevention

Occupational Safety and Health Management System*

Five of the Company's plants acquired certification for the international standard ISO 45001, which is for occupational safety and health management systems, and are conducting operations accordingly. Two of the plants simultaneously acquired JISQ 45100, which added requirements related mainly to daily safety and health activities to ISO 45001 (JISQ 45001), from the Japan Industrial Safety and Health Association (JISHA). We are making preparations toward acquiring certification for ISO 45001 as well as JISQ 45100 at the remaining plants.

By fiscal 2009, Sumitomo Chemical had acquired OSHMS certification from JISHA at all of its Works and Research Laboratories. The Research Laboratories have since switched to independent operations, and the Works are working to switch to ISO 45001 certification. Currently 1 Works (4 facilities) maintains JISHA certification. (JISHA's OSHMS includes the same requirements as OHSAS 18001.)

* Applicable scope of the Occupational Safety and Health Management System: Employees who work at the Company's Works and Research Laboratories (including temporary, part-time, and dispatch employees)

JISHA's Official Websites

Japanese: https://www.jisha.or.jp/about/index.html

English: https://www.jisha.or.jp/english/index.html

■ Acquisition of ISO 45001 and JISQ 45100 Certification (Sumitomo Chemical)

Facilities	Certificate Number	Certification Date
Osaka Works	ISO 45001: JISHA-O-31	April 2020
Osaka Works	JISQ 45100: JISHA-31	April 2020
Chiba Works	ISO 45001: JISHA-O-61	June 2021
Chiba Works	JISQ 45100: JISHA-61	June 2021
Misawa Works	ISO 45001: JQA-OH0346	July 2021
Ehime Works	ISO 45001: JCQA-O-0102	September 2021
Ohe Works	ISO 45001: JCQA-O-0106	February 2022

■ Acquisition of JISHA's OSHMS Certification (Sumitomo Chemical)

Facilities	Certificate Number	Certification Date
Oita Works	06-44-1	July 2006
Oita Works (Utajima)	09-27-14	January 2009
Oita Works (Gifu Plant)	09-21-6	February 2009
Oita Works (Okayama Plant)	09-33-7	February 2009

Social Activities: Supplementary Data

Voluntary Safety Management of High-Pressure Gas Based on Certification by the Minister

Sumitomo Chemical continually renews the Accreditation of Completion and Safety Inspection, as stipulated in the High Pressure Gas Safety Act, for the Ehime Works and the Chiba Works. Certification is given to facilities that have achieved excellent safety, management, and technological levels and that are recognized as having met legally mandated requirements for safety management systems. Certified plants are allowed to conduct Completion Inspections and Safety Inspections of their own facilities in place of national, prefectural, and other governmental organizations.

Number of Accreditations of Completion and Safety Inspection Given for Sumitomo Chemical Facilities

Works	Area	Year of certification	Year and month renewed	Number of facilities given accreditation
Ehime Works	Niihama	2002	March 2018	13
	Kikumoto	2002	March 2018	4
Chiba Works	Anesaki	1987	May 2019	8
	Sodegaura	1987	May 2019	15

Note: Number of facilities given accreditation data as of the time of certification renewal.

Social Activities: Supplementary Data

Criteria and Results of the President's Safety Award for Zero-Lost Workday Operations (as of May 31, 2022)

Sumitomo Chemical has set facility specific criteria for the achievement of continuous periods of zero-lost workday operations for employees as well as contractors. The President's Safety Award is presented to facilities in recognition of their satisfaction of the above-mentioned criteria.

Sumitomo Chemical Employees (Works, Research Laboratories)

Facilities	Criteria for the President's Safety Award*1	Results
Ehime Works	3 million hours	Working to reach the target of 6 million work hours.
Ohe Works*2	3 million hours	Working to reach the target of 9 million work hours.
Chiba Works	3 million hours	Working to reach the target of 6 million work hours.
Osaka Works	3 million hours	Working to reach the target of 24 million work hours.
Oita Works*3	1.5 million hours	Working to reach the target of 3 million work hours.
Misawa Works	30 months	A lost workday accident occurred in February 2020. Working to reach the target of 30 months.
Health & Crop Sciences Research Laboratory	30 months	Working to reach the target of 90 months.
Tsukuba Regional Research Laboratory*4	30 months	Working to reach the target of 420 months.

Contractors / Affiliated Company Employees of Sumitomo Chemical (Works, Research Laboratories)

Facilities	Criteria for the President's Safety Award*1	Results
Ehime Association (Plant maintenance)	24 months	A lost workday accident occurred in November 2021. Working to reach the target of 24 months.
Ehime Logistics Association (Logistics)	24 months	Working to reach the target of 48 months.
Ohe Association (Plant maintenance)	48 months	Working to reach the target of 192 months
Ohe Logistics Association (Logistics)	48 months	Working to reach the target of 192 months
Chiba Association (Plant maintenance)	24 months	A lost workday accident occurred in May 2022. Working to reach the target of 24 months.
Chiba Logistics Association (Logistics)	24 months	Working to reach the target of 48 months.
Osaka Association	24 months	A lost workday accident occurred in November 2021. Working to reach the target of 24 months.
Oita Association	24 months	Working to reach the target of 144 months
Okayama Association	48 months	A lost workday accident occurred in November 2020. Working to reach the target of 48 months.
Gifu Association	48 months	Working to reach the target of 192 months
Misawa Works	48 months	A lost workday accident occurred in September 2019. Working to reach the target of 48 months.
Health & Crop Sciences Research Laboratory	48 months	Working to reach the target of 288 months
Tsukuba Regional Research Laboratory*4	48 months	Working to reach the target of 144 months

*1 Continuous periods of zero-lost workday operations.
*2 Ohe Works includes Sumika Assembly Techno Co., Ltd.
*3 Oita Works includes the Utajima Pilot Production Department, Gifu Plant, and Okayama Plant.
*4 The Tsukuba Regional Research Laboratory was reorganized into the Advanced Materials Development Research Laboratory (Tsukuba) and Energy & Functional Materials Research Laboratory (Tsukuba).

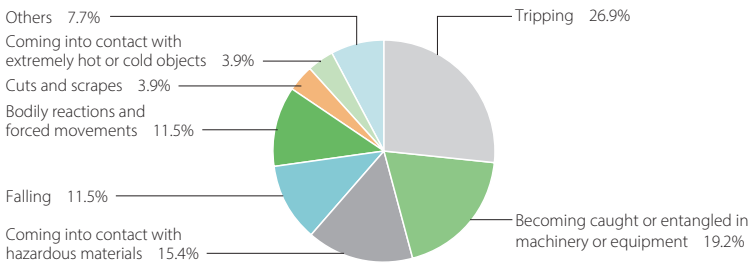
Social Activities: Supplementary Data

Safety Achievements

Lost-Workday Injuries (Sumitomo Chemical Group*1)

	FY2018	FY2019	FY2020	FY2021
Number of lost-workday injuries	35	27	40*2	26
Frequency rate of lost-workday injuries	0.58	0.42	0.46*2	0.29
Number of fatal accidents	1	0	0	1
Number of fatal accidents (contract employees)	1	0	0	0

FY2021 Breakdown of Causes of Injury by Type (Sumitomo Chemical Group*1)



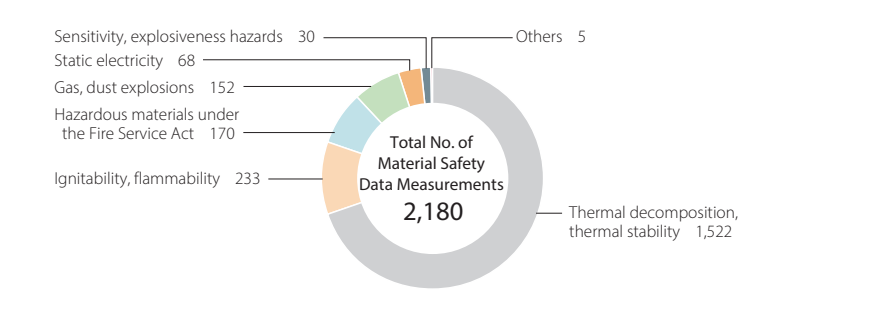
*1 Changed the definition of the Group for occupational health and safety in fiscal 2020
Up to FY2019: Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.
FY2020 on: Sumitomo Chemical (including contractors) and consolidated subsidiaries in Japan and overseas.

*2 Among the accidents that occurred in fiscal 2020, there was one that was certified as a lost-work accident in fiscal 2021. Accordingly, this incident was retrospectively added to the number of occupational accidents in fiscal 2020, and the lost-work accident number and rate (Sumitomo Chemical and Sumitomo Chemical Group) were revised.

Social Activities: Supplementary Data

Industrial Safety and Disaster Prevention Results

FY2021 Results of Material Safety Data Measurements Requests (Sumitomo Chemical Group*)



* Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.

The Safety Engineering Group at the Production & Safety Fundamental Technology Center studies and assesses process safety, researches safety measures, measures and evaluates material safety data, compiles a database on safety technologies, and undertakes training for safety engineers in its efforts to enhance process safety management and to prevent accidents such as fires and explosions. In fiscal 2021, 2,019 material safety data measurements were taken from within Sumitomo Chemical and 161 measurements were taken from Group companies for a total of 2,180.

The Launch of Several Process Safety Review Committees (Sumitomo Chemical)

	R&D stages		Industrialization stage		
Fiscal Year	Level 1	Level 2	Level 3	Level 4	Level 5
2018	24	38	27	91	24
2019	25	17	30	67	21
2020	26	28	16	91	22
2021	25	38	30	91	29

When new processes are developed at Sumitomo Chemical, the Process Safety Review Committee (levels 1 to 5) convenes at every step, from R&D through to industrial-scale production. In essence, this Committee focuses on process safety assessment results and confirms whether safety countermeasures are appropriate.

Safety Information Database (Sumitomo Chemical)

	Number of data sets	(Year on year comparison)
Accident prevention technology information	21,157	(Increased by 464)
Accident cause investigations	2,614	(Increased by 89)
Accident information	20,998	(Increased by 95)
As of March 31, 2022	44,769	(Increased by 648)

A safety information database has been created by collecting information on accidents in Japan and overseas and compiling abstracts of said data. As of the end of March 2022, 44,769 sets of data were stored in the database (44,121 sets of data as of March 31, 2021). This system allows all employees at each Works or Research Laboratory to search stored data using individual terminals. This data is also used in process hazard evaluations and case study examinations to prevent similar accidents. In addition, accident data is also disclosed to Group companies as necessary.

Social Activities: Supplementary Data

3 Product Stewardship / Product Safety / Quality Assurance

Quality Management System

■ Acquisition of ISO 9001 Certification (Sumitomo Chemical)

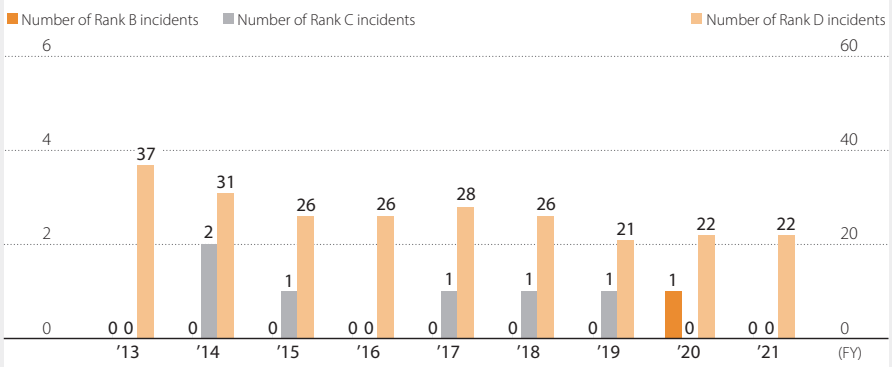
Works	Certificate Number	Certification Date
Ehime Works	JCQA-0019 JET-0847	October 1994 August 2009
Chiba Works	JQA-0829	March 1995
Osaka Works	JQA-0721	December 1994
Oita Works (Gifu Plant)*	JQA-1069	December 1995
Oita Works (Okayama Plant)	JSAQ-2904	October 2020
Misawa Works	JQA-0752	December 1994
Ohe Works	JET-0829 JCQA-1720	April 1998 January 2010

* The Oita Works (Gifu Plant) has been pursuing Good Manufacturing Practice (GMP) management.

Logistics Quality Assurance

In fiscal 2021, the Company reported 22 incidents of rank D. Of these incidents, 12 involved shipping error or false delivery, which can cause significant problems in the quality of customers' products. Going forward, we will continue to take measures to reduce the number of incidents affecting logistics quality, such as promoting measures to prevent recurrences and rolling out said measures across the Company.

■ Logistics Incidents Having an Impact on Our Customers (Sumitomo Chemical)*



Note: • Ranks reflect Sumitomo Chemical's standard, which classifies incidents into Ranks A, B, C, and D in descending order of severity.
• There were no occurrences of Rank A (the most severe) incidents.
• Incidents within the scope of logistics operations are consigned to Sumitomo Chemical.

* Includes some Group companies in Japan that have Works within a Sumitomo Chemical worksite

List of Policies

We have gathered together the Sumitomo Chemical Group's policies, guidelines, and other guidance related to sustainability.

Policies	Web
Corporate Philosophy	
The Sumitomo Spirit	https://www.sumitomo-chem.co.jp/english/company/principles/sumitomo/
Business Philosophy	https://www.sumitomo-chem.co.jp/english/company/principles/philosophy/
Basic Principles for Promoting Sustainability	https://www.sumitomo-chem.co.jp/english/sustainability/management/principles/basic_principles/
Sumitomo Chemical Charter for Business Conduct	https://www.sumitomo-chem.co.jp/english/company/principles/charter/
Governance	
Sumitomo Chemical Corporate Governance Guidelines	https://www.sumitomo-chem.co.jp/english/company/files/docs/governance_pdf_01.pdf
Corporate Governance Report	https://www.sumitomo-chem.co.jp/english/company/files/docs/governance_report_e.pdf
Implementation Policy for Japan's Stewardship Code	https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/stewardship_E.pdf
Basic policy for Enhancement of the Internal Control System	https://www.sumitomo-chem.co.jp/english/company/files/docs/InternalControlSystem_20190329_e.pdf
Compliance Manual	https://www.sumitomo-chem.co.jp/english/sustainability/governance/compliance/rules_society/
Basic Policy Regarding on Compliance	https://www.sumitomo-chem.co.jp/english/sustainability/governance/compliance/
Compliance Manual for Bribery Prevention (Outline)	https://www.sumitomo-chem.co.jp/english/sustainability/governance/anti_corruption/#headline-manuals
Sumitomo Chemical Group Tax Policy	https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/sumitomo_chemical_group_tax_policy.pdf
Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality)	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/promote/
Eco-First Commitments	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/ecofirst/
Environment	
Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality)	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/promote/
Sumitomo Chemical Group Basic Policy Towards a Circular System for Plastics	https://www.sumitomo-chem.co.jp/english/sustainability/management/materiality/plastic/
Sumitomo Chemical's Commitment to the Conservation of Biodiversity	https://www.sumitomo-chem.co.jp/english/sustainability/environment/conservation/biodiversity/
Society (Social Activities)	
Sumitomo Chemical Group Human Rights Policy	https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/HumanRightsPolicy_e.pdf
Compliance with the Laws and Regulations involving Respect for Human Rights World-wide	https://www.sumitomo-chem.co.jp/english/sustainability/society/human_rights/statement/
Basic Procurement Principles	https://www.sumitomo-chem.co.jp/english/company/purchasing/principles/
Sumitomo Chemical Group Sustainable Procurement Guidebook	https://www.sumitomo-chem.co.jp/english/sustainability/files/docs/cp_csr_guidebook_e.pdf
Revised and retitled the Sumitomo Chemical Group Supplier Code of Conduct in August 2022 (Japanese Only)	https://www.sumitomo-chem.co.jp/sustainability/files/docs/suppliers_code_of_conduct_j.pdf
Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials	https://www.sumitomo-chem.co.jp/english/sustainability/society/procurement/minerals/
Human Resources System Initiatives	https://www.sumitomo-chem.co.jp/english/sustainability/society/management/
Group Diversity, Equity, and Inclusion Policy	https://www.sumitomo-chem.co.jp/english/sustainability/society/management/diversity/
Action Plan to Reform Workstyles	https://www.sumitomo-chem.co.jp/english/sustainability/society/management/work_life_balance/
Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality)	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/promote/
Sumitomo Chemical's Social Contribution Activities	https://www.sumitomo-chem.co.jp/english/sustainability/society/region/

Calculation Standards for Environmental and Social Data Indicators

1. Period: April 2021 to March 2022
2. Boundary: Refer to Boundary of This Report on page 3 of the *Sustainability Data Book 2022*.
3. Calculation Method:

Environmental Data Indicator		Unit	Calculation Method
Energy	Energy consumption	Thousand kl of crude oil	{(Amount of electricity purchased × Per-unit heating value + Amount of heat purchased × Per-unit heating value) + Σ (Amount of each fuel used × Per-unit heating value for each fuel)} × 0.0258 The per-unit heating value of electricity, per-unit heating value for each fuel, and the types of fuel included in the scope of calculation are based on the values and calculation methods outlined in the Act on the Rational Use of Energy. Because we calculated GHG emissions in accordance with the GHG Protocol from fiscal 2017, the energy usage amount includes the energy used to produce electricity and steam sold to external parties by the Group. The heating value used overseas is based on standard heating values used in the formulation of Japanese laws.
Amount of Exhaustible Resources Used	Hydrocarbon compounds	Thousand tons	Total amount of hydrocarbon compounds used as raw materials (only raw materials purchased from outside the Sumitomo Chemical Group).
	Metals (excluding minor metals)	Thousand tons	Total amount of metals, excluding minor metals, used as raw materials: iron, gold, silver, copper, zinc, aluminum, lead, platinum, titanium, palladium, gallium, and lithium (only raw materials purchased from outside the Sumitomo Chemical Group).
	Minor metals	Thousand tons	Total amount of minor metals used as raw materials: nickel, chromium, tungsten, cobalt, molybdenum, manganese, and vanadium (only raw materials purchased from outside the Sumitomo Chemical Group).
Water	Industrial water Drinking water Seawater Groundwater Other water	Million tons	Amount of industrial water, drinking water, seawater, groundwater, and other water used.
PCBs/CFCs in Use or under Secure Storage	No. of electrical devices containing high concentrations of PCBs	Units	The number of electrical devices containing high concentrations of PCBs, such as condensers and transformers, that are currently in use or under secure storage. Does not include fluorescent lamps and mercury lamp ballasts or contaminated substances (wastepaper, etc.).
	PCB volume	kl	The total amount of PCBs in electrical devices containing PCBs, calculated as the net PCB content by volume. Does not include fluorescent lamps and mercury lamp ballasts or contaminated substances (wastepaper, etc.).
	No. of refrigeration units using specified CFCs as a coolant	Units	No. of refrigeration units using specified CFCs as a coolant
	No. of refrigeration units using specified HCFCs as a coolant	Units	No. of refrigeration units using specified HCFCs as a coolant
Products	Calculated on the basis of ethylene production	Thousand tons	The production volume of products is calculated on the basis of ethylene production, using the amount of energy necessary to manufacture the products by weight and the amount of energy necessary for ethylene production by weight. Some assumptions were made in calculations due to the difficulty of obtaining weight-based figures for certain products.
Water Pollutant Emissions	COD	Tons	The total amount of COD emitted into public water area (coastal waters/waterways) and sewer systems. Calculated as: The COD concentration at drains included in the scope of calculation × The amount of water drained into public water bodies and sewer systems from each drain.
	Phosphorus	Tons	The total amount of phosphorus emitted into public water area (coastal waters/waterways) and sewer systems. Calculated as: The phosphorus concentration at drains included in the scope of calculation × The amount of water drained into public water bodies and sewer systems from each drain.
	Nitrogen	Tons	The total amount of nitrogen emitted into public water area (coastal waters/waterways) and sewer systems. Calculated as: The nitrogen concentration at drains included in the scope of calculation × The amount of water drained into public water bodies and sewer systems from each drain.
Waste Materials	Waste emission amount	Thousand tons	The total amount of waste discharged from business sites. The amount of coal ash generated at Sumitomo Joint Electric Power Co., Ltd., which is included in the waste discharge amount, is calculated on a dry-weight basis.
	Landfill disposal amount: – On-site landfill – External landfill	Thousand tons	The total amount of waste disposed of in landfills. The amount of coal ash generated at Sumitomo Joint Electric Power Co., Ltd., which is included in the landfill disposal amount, is calculated on a dry-weight basis. * Landfill disposal amount for Sumitomo Chemical: Of the waste remaining after external reduction processing, the entire amount disposed of in landfills (not recycled) is calculated as the external landfill disposal amount.
	Total landfill	Thousand tons	The total amount of waste disposed of in landfills.

Calculation Standards for Environmental and Social Data Indicators

Environmental Data Indicator		Unit	Calculation Method
Atmospheric Emissions	Greenhouse gas emissions	Thousand tons of CO_2	**CO_2 emissions from energy use:** Amount of electricity purchased × CO_2 emission factors for electricity + Amount of steam purchased × CO_2 emission factors for steam + Σ(Amount of each fuel used × Per-unit heating value for each fuel × CO_2 emission coefficient for each fuel) The CO_2 emission factors for steam, per-unit heating value for each fuel, and CO_2 emission factors for each fuel are based on the values outlined in the Greenhouse Gas Emissions Accounting, Reporting, and Disclosure System of the Act on Promotion of Global Warming Countermeasures. The CO_2 emission factors for electricity in Japan uses the values for each fiscal year by electric power company and that for overseas uses the values by electric power company along with the IEA's fiscal 2019 efficiency indicators for each country. From fiscal 2017, results include the energy used to produce the power and steam sold to external parties in accordance with the GHG Protocol. **CO_2 emissions from other than energy use and non-CO_2 GHG emissions:** In Japan, results are based on the calculation method outlined in the Greenhouse Gas Emissions Accounting, Reporting, and Disclosure System of the Act on Promotion of Global Warming Countermeasures. From fiscal 2017, results include CO_2 emissions generated by processes not subject to reporting under the Act on Promotion of Global Warming Countermeasures. Overseas, figures are calculated in accordance with the laws and regulations of their respective countries.
	NOx	Tons	The total amount of nitrogen oxides originating from facilities specified in the Air Pollution Control Act. Calculated as: Each facility's dry gas emission volume × NOx (N_2O) concentration.
	SOx	Tons	The total amount of sulfur oxides originating from facilities specified in the Air Pollution Control Act. Calculated as: Amount of sulfur in fuel used by each facility × Amount of fuel used. Or calculated as: Each facility's dry gas emission volume × SOx (SO_2) concentration.
	Soot and dust	Tons	The total amount of soot and dust originating from facilities specified in the Air Pollution Control Act. Calculated as: Each facility's dry gas emission volume × Soot and dust concentration.
Substances Subject to the PRTR Act	Atmospheric emissions, water pollutant emission	Tons	Calculated based on the amended Order for Enforcement of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (amended Order for Enforcement of the PRTR Act), executed on April 1, 2010.
Logistics	Energy consumption	Thousand kl of crude oil	The energy consumption is calculated as 10 GJ = 0.258 kl of crude oil, based on the Energy Saving Act Guide Book for Shippers written and edited by Japan's Agency for Natural Resources and Energy.
	CO_2 emissions	Thousand tons of CO_2	Calculated based on the Manual for Calculation and Report of Greenhouse Gas Emissions (Ver. 4.8) from Japan's Ministry of the Environment and Ministry of Economy, Trade and Industry using the energy consumption calculated above in GJ.
Scope 3 Greenhouse Gas Emissions	Category 1: Purchased goods and services	Tons of CO_2	Σ {(Volume and monetary amount of goods and services purchased and acquired × Emission intensity)} Values used for emission intensity (volume) are based on the values outlined in IDEA v2 (for calculating supply chain greenhouse gas emissions). Values used for emission intensity (monetary amount) calculations are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022.
	Category 2: Capital goods	Tons of CO_2	Σ {(Value of capital goods) × (Emission intensity)} Values used for emission intensity are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022.
	Category 3: Fuels and energy-related activities not included in Scope 1 or 2	Tons of CO_2	Σ {(Amount of electricity purchased) × (Emissions intensity)} + Σ{(Amount of heat purchased) × (Emissions intensity)} + Σ{(Amount of each fuel used) × (Emissions intensity for each fuel)} Values used for emission intensity are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022 and IDEA v2 (for calculating supply chain greenhouse gas emissions).
	Category 4: Upstream transportation and distribution	Tons of CO_2	Calculated by the calculation method for CO_2 emissions in logistics area or by using values based on IDEA v2 (for calculating supply chain greenhouse gas emissions).
	Category 5: Waste generated in operations	Tons of CO_2	Σ (Amount of waste by type × CO_2 emissions intensity of waste by type) CO_2 emissions intensity of waste by type are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022.
	Category 6: Business travel	Tons of CO_2	By mode of travel: Σ (Expenses paid for transportation × Emission intensity) Values used for emission intensity are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022.
	Category 7: Employee commuting	Tons of CO_2	By mode of commuting: Σ (Expenses paid for transportation × Emission intensity) Values used for emission intensity are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022 and IDEA v2 (for calculating supply chain greenhouse gas emissions).

Calculation Standards for Environmental and Social Data Indicators

Environmental Data Indicator		Unit	Calculation Method
Scope 3 Greenhouse Gas Emissions	Category 8: Upstream leased assets	Tons of CO_2	Calculations of emissions from leased vehicles: Σ (Amount of gasoline consumed annually per vehicle × Emission intensity) The amount of gasoline consumed annually per vehicle is calculated using the Annual Report on Automobile Transportation Statistics. Values used for emission intensity are based on the emission factors outlined in the Accounting, Reporting, and Disclosure System of the Act on Promotion of Global Warming Countermeasures.
	Category 9: Downstream transportation and distribution	Tons of CO_2	Refer to the calculation method used for CO_2 emissions in the logistics section above. Calculations are for fertilizer products for which the sales destination are known and that are sold to consumers as final products.
	Category 10: Processing of sold products	Tons of CO_2	Exempted: The Group's products are mainly materials and components used for various applications, which makes it difficult to know such details as the nature of the processing products undergo after delivery. Based on the calculation guidelines for the chemical industry created by the WBCSD, the Group is exempted from this category.
	Category 11: Use of sold products	Tons of CO_2	Calculations are for the pharmaceutical product fixed-dose mist inhalers as well as fertilizer products for which GHG emissions levels are known and that are sold to consumers as final products. Σ (Fertilizer sales volume by type × Percentage of nitrogen in fertilizers by type × N_2O emission factors by type × 298 (GWP)) Σ (HFC volume in fixed-dose mist inhalers × GWP) Values for GWP are based on emission factors listed in Appendix 15 under the Calculation Method and Emission Factors Chart in the Accounting, Reporting, and Disclosure System of the Order for Enforcement of the Act on Promotion of Global Warming Countermeasures.
	Category 12: End-of-life treatment of sold products	Tons of CO_2	Calculations are for the Group's main resin-related products. Σ {(Production volume of resin-related products) × (Emission intensity)} Values used for emission intensity are based on the values outlined in the Database on Emission Intensities for Calculating Organizational Greenhouse Gas Emissions, etc. through a Supply Chain Version 3.2 March 2022.
	Category 13: Downstream leased assets	Tons of CO_2	Exempted: There are no relevant leased assets.
	Category 14: Franchises	Tons of CO_2	Exempted: There are no relevant operations.
	Category 15: Investments	Tons of CO_2	Exempted: Because Sumitomo Chemical changed its approach to financial control consolidation for disclosure purposes from fiscal 2017, the Group is now exempted from this category.

Social and Economic Data Indicator		Unit	Calculation Method
Occupational Safety and Health	Frequency rate	—	(Number of lost-workday injuries and casualties ÷ Cumulative total of hours worked) × 1,000,000
	Severity rate	—	(Cumulative total of workdays lost ÷ Cumulative total of hours worked) × 1,000

Environmental Accounting Indicators		Unit	Calculation Method
Environmental Protection Costs		Billion yen	Costs include depreciation.
Economic Benefits	Reduced costs through energy saving	Billion yen	Reduced costs of energy through energy-saving activities.
	Reduced costs through resource saving	Billion yen	Reduced costs of waste processing attributable to resource-saving activities.
	Reduced costs through recycling activities	Billion yen	Reduced costs of waste processing compared to the previous fiscal year through waste reduction attributable to recycling activities and gains on sales of valuable resources obtained from recycling, etc.

Independent Assurance Report

To the Representative Director & President of Sumitomo Chemical Company, Limited

We were engaged by Sumitomo Chemical Company, Limited (the "Company") to undertake a limited assurance engagement of the environmental and social performance indicators marked with "★" (the "Indicators") for the period from April 1, 2021 to March 31, 2022 included in its Sustainability Data Book 2022 (the "Data Book") for the fiscal year ended March 31, 2022.

The Company's Responsibility

The Company is responsible for the preparation of the Indicators in accordance with its own reporting criteria (the "Company's reporting criteria"), as described in the Data Book.

Our Responsibility

Our responsibility is to express a limited assurance conclusion on the Indicators based on the procedures we have performed. We conducted our engagement in accordance with the 'International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements other than Audits or Reviews of Historical Financial Information' and the 'ISAE 3410, Assurance Engagements on Greenhouse Gas Statements' issued by the International Auditing and Assurance Standards Board. The limited assurance engagement consisted of making inquiries, primarily of persons responsible for the preparation of information presented in the Data Book, and applying analytical and other procedures, and the procedures performed vary in nature from, and are less in extent than for, a reasonable assurance engagement. The level of assurance provided is thus not as high as that provided by a reasonable assurance engagement. Our assurance procedures included:

- Interviewing the Company's responsible personnel to obtain an understanding of its policy for preparing the Data Book and reviewing the Company's reporting criteria.
- Inquiring about the design of the systems and methods used to collect and process the Indicators.
- Performing analytical procedures on the Indicators.
- Examining, on a test basis, evidence supporting the generation, aggregation and reporting of the Indicators in conformity with the Company's reporting criteria, and recalculating the Indicators.
- Visiting one of the Company's factories and one of the Company's subsidiaries selected on the basis of a risk analysis.
- Evaluating the overall presentation of the Indicators.

Conclusion

Based on the procedures performed, as described above, nothing has come to our attention that causes us to believe that the Indicators in the Data Book are not prepared, in all material respects, in accordance with the Company's reporting criteria as described in the Data Book.

Our Independence and Quality Control

We have complied with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which includes independence and other requirements founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. In accordance with International Standard on Quality Control 1, we maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Shinnosuke Kayumi

Shinnosuke Kayumi, Director
KPMG AZSA Sustainability Co., Ltd.
Osaka, Japan
October 26, 2022

GRI Standards Reference Table

The *Sustainability Data Book 2022* has been prepared in accordance with "Core option" of the Sustainability Reporting Standard of the Global Reporting Initiative (GRI).

Universal Standards

NO.	Disclosure	Reporting requirements	Corresponding part		
			The Sustainability Data Book 2022		Website and related reports
GRI102: General Disclosures 2016					
Organizational profile					
102-1	Name of the organization	a. Name of the organization.			Corporate Profile
102-2	Activities, brands, products, and services	a. A description of the organization's activities. b. Primary brands, products, and services, including an explanation of any products or services that are banned in certain markets.			Business & Products Business Sector Report (Annual Report PP.17-18, PP.63-82)
102-3	Location of headquarters	a. Location of the organization's headquarters.	Introduction to the Sumitomo Chemical Group	P.4	Corporate Profile
102-4	Location of operations	a. Number of countries where the organization operates, and the names of countries where it has significant operations and/or that are relevant to the topics covered in the report.			Business Locations & Group Companies
102-5	Ownership and legal form	a. Nature of ownership and legal form.			Corporate Profile
102-6	Markets served	a. Markets served, including: i. geographic locations where products and services are offered; ii. sectors served; iii. types of customers and beneficiaries.			Corporate Data (Annual Report PP.103-116) Business Locations & Group Companies
102-7	Scale of the organization	a. Scale of the organization, including: i. total number of employees; ii. total number of operations; iii. net sales (for private sector organizations) or net revenues (for public sector organizations); iv. total capitalization (for private sector organizations) broken down in terms of debt and equity; v. quantity of products or services provided.			Corporate Profile
102-8	Information on employees and other workers	a. Total number of employees by employment contract (permanent and temporary), by gender. b. Total number of employees by employment contract (permanent and temporary), by region. c. Total number of employees by employment type (full-time and part-time), by gender. d. Whether a significant portion of the organization's activities are performed by workers who are not employees. If applicable, a description of the nature and scale of work performed by workers who are not employees. e. Any significant variations in the numbers reported in Disclosures 102-8-a, 102-8-b, and 102-8-c (such as seasonal variations in the tourism or agricultural industries). f. An explanation of how the data have been compiled, including any assumptions made.	Human Resources Diversity, Equity, and Inclusion (DE&I)	PP.238-241 PP.194-198	
102-9	Supply chain	a. A description of the organization's supply chain, including its main elements as they relate to the organization's activities, primary brands, products, and services.			Business Sector Report (Annual Report PP.17-18, PP.63-82) Production Flow Charts (Investors' Handbook PP.78-85)
102-10	Significant changes to the organization and its supply chain	a. Significant changes to the organization's size, structure, ownership, or supply chain, including: i. Changes in the location of, or changes in, operations, including facility openings, closings, and expansions; ii. Changes in the share capital structure and other capital formation, maintenance, and alteration operations (for private sector organizations); iii. Changes in the location of suppliers, the structure of the supply chain, or relationships with suppliers, including selection and termination.	Not applicable		
102-11	Precautionary Principle or approach	a. Whether and how the organization applies the Precautionary Principle or approach.	For a Sustainable Future Risk Management Climate Change Mitigation and Adaptation	PP.6-56 PP.80-82 PP.109-121	The Material Issues to Be Addressed as Management Priorities (Annual Report PP.39-62)

GRI Standards Reference Table

NO.	Disclosure	Reporting requirements	Corresponding part		
			The Sustainability Data Book 2022		Website and related reports
102-12	External initiatives	a. A list of externally-developed economic, environmental and social charters, principles, or other initiatives to which the organization subscribes, or which it endorses.	Participation in Initiatives Eco-First Commitments Engaging in Human Rights Initiatives	PP.40-45 PP.99-100 P.176	
102-13	Membership of associations	a. A list of the main memberships of industry or other associations, and national or international advocacy organizations.	Participation in Initiatives	PP.40-45	
Strategy					
102-14	Statement from senior decision-maker	a. A statement from the most senior decision-maker of the organization (such as CEO, chair, or equivalent senior position) about the relevance of sustainability to the organization and its strategy for addressing sustainability.	President's Message	PP.7-12	
102-15	Key impacts, risks, and opportunities	a. A description of key impacts, risks, and opportunities.	President's Message Material Issues to Be Addressed as Management Priorities Key Performance Indicator (KPI) for Material Issues Risk Management Disclosure in Line with TCFD Recommendations	PP.7-12 PP.17-18 PP.19-27 PP.80-82 PP.110-121	
Ethics and integrity					
102-16	Values, principles, standards, and norms of behavior	a. A description of the organization's values, principles, standards, and norms of behavior.	The Sumitomo Chemical's Corporate Philosophy What Sumitomo Chemical Group Strives to Be	PP.13-15 P.16	
102-17	Mechanisms for advice and concerns about ethics	a. A description of internal and external mechanisms for: i. seeking advice about ethical and lawful behavior, and organizational integrity; ii. reporting concerns about unethical or unlawful behavior, and organizational integrity.	Compliance	PP.83-90	
Governance					
102-18	Governance structure	a. Governance structure of the organization, including committees of the highest governance body. b. Committees responsible for decision-making on economic, environmental, and social topics.	Current Corporate Governance Organization Sustainability Promotion System	PP.59-61 PP.29-30	
102-19	Delegating authority	a. Process for delegating authority for economic, environmental, and social topics from the highest governance body to senior executives and other employees.	Sustainability Promotion System	PP.29-30	
102-20	Executive-level responsibility for economic, environmental, and social topics	a. Whether the organization has appointed an executive-level position or positions with responsibility for economic, environmental, and social topics. b. Whether post holders report directly to the highest governance body.	Sustainability Promotion System	PP.29-30	
102-21	Consulting stakeholders on economic, environmental, and social topics	a. Processes for consultation between stakeholders and the highest governance body on economic, environmental, and social topics. b. If consultation is delegated, describe to whom it is delegated and how the resulting feedback is provided to the highest governance body.	Sustainability Promotion System	PP.29-30	
102-22	Composition of the highest governance body and its committees	a. Composition of the highest governance body and its committees by: i. executive or non-executive; ii. independence; iii. tenure on the governance body; iv. number of each individual's other significant positions and commitments, and the nature of the commitments; v. gender; vi. membership of under-represented social groups; vii. competencies relating to economic, environmental, and social topics; viii. stakeholder representation.	Current Corporate Governance Organization	PP.59-61	Corporate Governance Report

GRI Standards Reference Table

NO.	Disclosure	Reporting requirements	Corresponding part		
			The Sustainability Data Book 2022		Website and related reports
102-23	Chair of the highest governance body	a. Whether the chair of the highest governance body is also an executive officer in the organization. b. If the chair is also an executive officer, describe his or her function within the organization's management and the reasons for this arrangement.	Corporate Governance Organization Current Corporate Governance Organization	P.59 PP.59-61	Corporate Governance Report
102-24	Nominating and selecting the highest governance body	a. Nomination and selection processes for the highest governance body and its committees. b. Criteria used for nominating and selecting highest governance body members, including whether and how: i. stakeholders (including shareholders) are involved; ii. diversity is considered; iii. independence is considered; iv. expertise and experience relating to economic, environmental, and social topics are considered.	Corporate Governance Organization Current Corporate Governance Organization Directors & Senior Management Expertise and Experience of Directors and Corporate Auditors	P.59 PP.59-61 PP.73-76 P.77	Corporate Governance Report
102-25	Conflicts of interest	a. Processes for the highest governance body to ensure conflicts of interest are avoided and managed. b. Whether conflicts of interest are disclosed to stakeholders, including, as a minimum: i. Cross-board membership; ii. Cross-shareholding with suppliers and other stakeholders; iii. Existence of controlling shareholder; iv. Related party disclosures.	Current Corporate Governance Organization Efforts to Substantively Strengthen Corporate Governance Listed Company with Listed Subsidiaries Cross-Shareholdings	PP.59-61 PP.66-69 PP.70-71 P.72	Corporate Governance Report Consolidated Financial Statements
102-26	Role of highest governance body in setting purpose, values, and strategy	a. Highest governance body's and senior executives' roles in the development, approval, and updating of the organization's purpose, value or mission statements, strategies, policies, and goals related to economic, environmental, and social topics.	Sustainability Promotion System Corporate Governance	PP.29-30 PP.58-77	
102-27	Collective knowledge of highest governance body	a. Measures taken to develop and enhance the highest governance body's collective knowledge of economic, environmental, and social topics.	Efforts to Substantively Strengthen Corporate Governance Sustainability Promotion System	PP.66-69 PP.29-30	
102-28	Evaluating the highest governance body's performance	a. Processes for evaluating the highest governance body's performance with respect to governance of economic, environmental, and social topics. b. Whether such evaluation is independent or not, and its frequency. c. Whether such evaluation is a self-assessment. d. Actions taken in response to evaluation of the highest governance body's performance with respect to governance of economic, environmental, and social topics, including, as a minimum, changes in membership and organizational practice.	Efforts to Substantively Strengthen Corporate Governance	PP.66-69	
102-29	Identifying and managing economic, environmental, and social impacts	a. Highest governance body's role in identifying and managing economic, environmental, and social topics and their impacts, risks, and opportunities – including its role in the implementation of due diligence processes. b. Whether stakeholder consultation is used to support the highest governance body's identification and management of economic, environmental, and social topics and their impacts, risks, and opportunities.	Efforts to Substantively Strengthen Corporate Governance Sustainability Promotion System Risk Management Disclosure in Line with TCFD Recommendations (Governance)	PP.66-69 PP.29-30 PP.80-82 P.110	
102-30	Effectiveness of risk management processes	a. Highest governance body's role in reviewing the effectiveness of the organization's risk management processes for economic, environmental, and social topics.	Sustainability Promotion System Risk Management	PP.29-30 PP.80-82	
102-31	Review of economic, environmental, and social topics	a. Frequency of the highest governance body's review of economic, environmental, and social topics and their impacts, risks, and opportunities.	Sustainability Promotion System Risk Management Disclosure in Line with TCFD Recommendations (Governance)	PP.29-30 PP.80-82 P.110	
102-32	Highest governance body's role in sustainability reporting	a. The highest committee or position that formally reviews and approves the organization's sustainability report and ensures that all material topics are covered.	Sustainability Promotion System	PP.29-30	
102-33	Communicating critical concerns	a. Process for communicating critical concerns to the highest governance body.	Sustainability Promotion System Internal Control Risk Management Compliance System at the Sumitomo Chemical Group	PP.29-30 PP.78-79 PP.80-82 PP.84-85	

GRI Standards Reference Table

NO.	Disclosure	Reporting requirements	Corresponding part		
			The Sustainability Data Book 2022		Website and related reports
102-34	Nature and total number of critical concerns	a. Total number and nature of critical concerns that were communicated to the highest governance body. b. Mechanism(s) used to address and resolve critical concerns.	Sustainability Promotion System Internal Control Risk Management Compliance	PP.29-30 PP.78-79 PP.80-82 PP.83-90	
102-35	Remuneration policies	a. Remuneration policies for the highest governance body and senior executives for the following types of remuneration: i. Fixed pay and variable pay, including performance-based pay, equity-based pay, bonuses, and deferred or vested shares; ii. Sign-on bonuses or recruitment incentive payments; iii. Termination payments; iv. Clawbacks; v. Retirement benefits, including the difference between benefit schemes and contribution rates for the highest governance body, senior executives, and all other employees. b. How performance criteria in the remuneration policies relate to the highest governance body's and senior executives' objectives for economic, environmental, and social topics.	Executive Nomination and Remuneration	PP.62-65	
102-36	Process for determining remuneration	a. Process for determining remuneration. b. Whether remuneration consultants are involved in determining remuneration and whether they are independent of management. c. Any other relationships that the remuneration consultants have with the organization.	Executive Nomination and Remuneration	PP.62-65	
102-37	Stakeholders' involvement in remuneration	a. How stakeholders' views are sought and taken into account regarding remuneration. b. If applicable, the results of votes on remuneration policies and proposals.	Executive Nomination and Remuneration	PP.62-65	
102-38	Annual total compensation ratio	a. Ratio of the annual total compensation for the organization's highest-paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country.	—	—	
102-39	Percentage increase in annual total compensation ratio	a. Ratio of the percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country.	—	—	
Stakeholder engagement					
102-40	List of stakeholder groups	a. A list of stakeholder groups engaged by the organization.	Communication with Stakeholders	PP.46-48	IR Activities (Annual Report P117)
102-41	Collective bargaining agreements	a. Percentage of total employees covered by collective bargaining agreements.	Communication with Employees	P.189	
102-42	Identifying and selecting stakeholders	a. The basis for identifying and selecting stakeholders with whom to engage.	Communication with Stakeholders	PP.46-48	IR Activities (Annual Report P117)
102-43	Approach to stakeholder engagement	a. The organization's approach to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and an indication of whether any of the engagement was undertaken specifically as part of the report preparation process.	Communication with Stakeholders	PP.46-48	IR Activities (Annual Report P117)
102-44	Key topics and concerns raised	a. Key topics and concerns that have been raised through stakeholder engagement, including: i. how the organization has responded to those key topics and concerns, including through its reporting; ii. the stakeholder groups that raised each of the key topics and concerns.	Sustainability Promotion System	PP.29-30	IR Activities (Annual Report P117)

GRI Standards Reference Table

NO.	Disclosure	Reporting requirements	Corresponding part		
			The Sustainability Data Book 2022		Website and related reports
Reporting practice					
102-45	Entities included in the consolidated financial statements	a. A list of all entities included in the organization's consolidated financial statements or equivalent documents. b. Whether any entity included in the organization's consolidated financial statements or equivalent documents is not covered by the report.			*Consolidated Financial Statements*
102-46	Defining report content and topic Boundaries	a. An explanation of the process for defining the report content and the topic Boundaries. b. An explanation of how the organization has implemented the Reporting Principles for defining report content.	Editorial Policy Report Profile	P.2 P.3	
102-47	List of material topics	a. A list of the material topics identified in the process for defining report content.	Material Issues to Be Addressed as Management Priorities Key Performance Indicator (KPI) for Material Issues	PP.17-18 PP.19-27	
102-48	Restatements of information	a. The effect of any restatements of information given in previous reports, and the reasons for such restatements.	Water Usage (Sumitomo Chemical Group) FY2019–2021 Environmental Performance (Sumitomo Chemical and Group Companies in Japan)	P.135 P.141	
102-49	Changes in reporting	a. Significant changes from previous reporting periods in the list of material topics and topic Boundaries.	Not applicable	—	
102-50	Reporting period	a. Reporting period for the information provided.	Report Profile	P.3	
102-51	Date of most recent report	a. If applicable, the date of the most recent previous report.	Report Profile	P.3	
102-52	Reporting cycle	a. Reporting cycle.	Report Profile	P.3	
102-53	Contact point for questions regarding the report	a. The contact point for questions regarding the report or its contents.			Contact
102-54	Claims of reporting in accordance with the GRI Standards	a. The claim made by the organization, if it has prepared a report in accordance with the GRI Standards, either: i. *'This report has been prepared in accordance with the GRI Standards: Core option'*; ii. *'This report has been prepared in accordance with the GRI Standards: Comprehensive option'*.	Report Profile GRI Standards Reference Table	P.3 "Core option"	
102-55	GRI content index	a. The GRI content index, which specifies each of the GRI Standards used and lists all disclosures included in the report. b. For each disclosure, the content index shall include: i. the number of the disclosure (for disclosures covered by the GRI Standards); ii. the page number (s) or URL (s) where the information can be found, either within the report or in other published materials; iii. if applicable, and where permitted, the reason(s) for omission when a required disclosure cannot be made.	GRI Standards Reference Table	PP.253-273	
102-56	External assurance	a. A description of the organization's policy and current practice with regard to seeking external assurance for the report. b. If the report has been externally assured: i. A reference to the external assurance report, statements, or opinions. If not included in the assurance report accompanying the sustainability report, a description of what has and what has not been assured and on what basis, including the assurance standards used, the level of assurance obtained, and any limitations of the assurance process; ii. The relationship between the organization and the assurance provider; iii. Whether and how the highest governance body or senior executives are involved in seeking external assurance for the organization's sustainability report.	Editorial Policy Independent Assurance Report	P.2 P.252	

GRI Standards Reference Table

NO.	Disclosure	Reporting requirements	Corresponding part		
			The Sustainability Data Book 2022		Website and related reports
GRI103: Management Approach 2016					
103-1	Explanation of the material topic and its Boundary	a. An explanation of why the topic is material. b. The Boundary for the material topic, which includes a description of: i. where the impacts occur; ii. the organization's involvement with the impacts. For example, whether the organization has caused or contributed to the impacts, or is directly linked to the impacts through its business relationships. c. Any specific limitation regarding the topic Boundary.	Material Issues to Be Addressed as Management Priorities Key Performance Indicator (KPI) for Material Issues	PP.17-18 PP.19-27	
103-2	The management approach and its components	a. An explanation of how the organization manages the topic. b. A statement of the purpose of the management approach. c. A description of the following, if the management approach includes that component: i. Policies ii. Commitments iii. Goals and targets iv. Responsibilities v. Resources vi. Grievance mechanisms vii. Specific actions, such as processes, projects, programs and initiatives	Material Issues to Be Addressed as Management Priorities Key Performance Indicator (KPI) for Material Issues Sustainability Promotion System	PP.17-18 PP.19-27 PP.29-30	
103-3	Evaluation of the management approach	a. An explanation of how the organization evaluates the management approach, including: i. the mechanisms for evaluating the effectiveness of the management approach; ii. the results of the evaluation of the management approach; iii. any related adjustments to the management approach.	Sustainability Promotion System	PP.29-30	

GRI Standards Reference Table

Topic-specific Standards

○: Items related material aspects for Sumitomo Chemical Group in GRI Standards ID 200 – 400 range

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
ECONOMIC					
GRI201: Economic Performance 2016					
201-1		Direct economic value generated and distributed	a. Direct economic value generated and distributed (EVG&D) on an accruals basis, including the basic components for the organization's global operations as listed below. If data are presented on a cash basis, report the justification for this decision in addition to reporting the following basic components: i. Direct economic value generated: revenues; ii. Economic value distributed: operating costs, employee wages and benefits, payments to providers of capital, payments to government by country, and community investments; iii. Economic value retained: 'direct economic value generated' less 'economic value distributed'. b. Where significant, report EVG&D separately at country, regional, or market levels, and the criteria used for defining significance.	Consolidated Financial Statements	
201-2	○	Financial implications and other risks and opportunities due to climate change	a. Risks and opportunities posed by climate change that have the potential to generate substantive changes in operations, revenue, or expenditure, including: i. a description of the risk or opportunity and its classification as either physical, regulatory, or other; ii. a description of the impact associated with the risk or opportunity; iii. the financial implications of the risk or opportunity before action is taken; iv. the methods used to manage the risk or opportunity; v. the costs of actions taken to manage the risk or opportunity.	Disclosure in Line with TCFD Recommendations	PP.110-121
201-3		Defined benefit plan obligations and other retirement plans	a. If the plan's liabilities are met by the organization's general resources, the estimated value of those liabilities. b. If a separate fund exists to pay the plan's pension liabilities: i. the extent to which the scheme's liabilities are estimated to be covered by the assets that have been set aside to meet them; ii. the basis on which that estimate has been arrived at; iii. when that estimate was made. c. If a fund set up to pay the plan's pension liabilities is not fully covered, explain the strategy, if any, adopted by the employer to work towards full coverage, and the timescale, if any, by which the employer hopes to achieve full coverage. d. Percentage of salary contributed by employee or employer. e. Level of participation in retirement plans, such as participation in mandatory or voluntary schemes, regional, or country-based schemes, or those with financial impact.	Consolidated Financial Statements	
201-4		Financial assistance received from government	a. Total monetary value of financial assistance received by the organization from any government during the reporting period, including: i. tax relief and tax credits; ii. subsidies; iii. investment grants, research and development grants, and other relevant types of grant; iv. awards; v. royalty holidays; vi. financial assistance from Export Credit Agencies (ECAs); vii. financial incentives; viii. other financial benefits received or receivable from any government for any operation. b. The information in 201-4-a by country. c. Whether, and the extent to which, any government is present in the shareholding structure.	—	—
GRI202: Market Presence 2016					
202-1		Ratios of standard entry level wage by gender compared to local minimum wage	a. When a significant proportion of employees are compensated based on wages subject to minimum wage rules, report the relevant ratio of the entry level wage by gender at significant locations of operation to the minimum wage. b. When a significant proportion of other workers (excluding employees) performing the organization's activities are compensated based on wages subject to minimum wage rules, describe the actions taken to determine whether these workers are paid above the minimum wage. c. Whether a local minimum wage is absent or variable at significant locations of operation, by gender. In circumstances in which different minimums can be used as a reference, report which minimum wage is being used. d. The definition used for 'significant locations of operation'.	—	—

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
202-2		Proportion of senior management hired from the local community	a. Percentage of senior management at significant locations of operation that are hired from the local community. b. The definition used for 'senior management'. c. The organization's geographical definition of 'local'. d. The definition used for 'significant locations of operation'.	—	—
GRI203: Indirect Economic Impacts 2016					
203-1		Infrastructure investments and services supported	a. Extent of development of significant infrastructure investments and services supported. b. Current or expected impacts on communities and local economies, including positive and negative impacts where relevant. c. Whether these investments and services are commercial, in-kind, or pro bono engagements.	Results of Social Contribution Activities Communities Coexistence with Each Country and Region	PP.227-228 PP.226-237 P.237
203-2		Significant indirect economic impacts	a. Examples of significant identified indirect economic impacts of the organization, including positive and negative impacts. b. Significance of the indirect economic impacts in the context of external benchmarks and stakeholder priorities, such as national and international standards, protocols, and policy agendas.	—	—
GRI204: Procurement Practices 2016					
204-1		Proportion of spending on local suppliers	a. Percentage of the procurement budget used for significant locations of operation that is spent on suppliers local to that operation (such as percentage of products and services purchased locally). b. The organization's geographical definition of 'local'. c. The definition used for 'significant locations of operation'.	—	—
GRI205: Anti-corruption 2016					
205-1	○	Operations assessed for risks related to corruption	a. Total number and percentage of operations assessed for risks related to corruption. b. Significant risks related to corruption identified through the risk assessment.	Anti-corruption	PP.91-93
205-2	○	Communication and training about anti-corruption policies and procedures	a. Total number and percentage of governance body members that the organization's anti-corruption policies and procedures have been communicated to, broken down by region. b. Total number and percentage of employees that the organization's anti-corruption policies and procedures have been communicated to, broken down by employee category and region. c. Total number and percentage of business partners that the organization's anti-corruption policies and procedures have been communicated to, broken down by type of business partner and region. Describe if the organization's anti-corruption policies and procedures have been communicated to any other persons or organizations. d. Total number and percentage of governance body members that have received training on anti-corruption, broken down by region. e. Total number and percentage of employees that have received training on anti-corruption, broken down by employee category and region.	Compliance Training Status	P.89
205-3	○	Confirmed incidents of corruption and actions taken	a. Total number and nature of confirmed incidents of corruption. b. Total number of confirmed incidents in which employees were dismissed or disciplined for corruption. c. Total number of confirmed incidents when contracts with business partners were terminated or not renewed due to violations related to corruption. d. Public legal cases regarding corruption brought against the organization or its employees during the reporting period and the outcomes of such cases.	Response to Compliance Violations	P.87
GRI206: Anti-competitive Behavior 2016					
206-1	○	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	a. Number of legal actions pending or completed during the reporting period regarding anti-competitive behavior and violations of anti-trust and monopoly legislation in which the organization has been identified as a participant. b. Main outcomes of completed legal actions, including any decisions or judgments.	Response to Compliance Violations	P.87
GRI207: Tax 2019					
207-1		Approach to tax	a. A description of the approach to tax, including: i. whether the organization has a tax strategy and, if so, a link to this strategy if publicly available; ii. the governance body or executive-level position within the organization that formally reviews and approves the tax strategy, and the frequency of this review; iii. the approach to regulatory compliance; iv. how the approach to tax is linked to the business and sustainable development strategies of the organization.	Tax Transparency	PP.94-95

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
207-2		Tax governance, control, and risk management	a. A description of the tax governance and control framework, including: i. the governance body or executive-level position within the organization accountable for compliance with the tax strategy; ii. how the approach to tax is embedded within the organization; iii. the approach to tax risks, including how risks are identified, managed, and monitored; iv. how compliance with the tax governance and control framework is evaluated. b. A description of the mechanisms for reporting concerns about unethical or unlawful behavior and the organization's integrity in relation to tax. c. A description of the assurance process for disclosures on tax and, if applicable, a reference to the assurance report, statement, or opinion.	Tax Transparency	PP.94-95
207-3		Stakeholder engagement and management of concerns related to tax	a. A description of the approach to stakeholder engagement and management of stakeholder concerns related to tax, including: i. the approach to engagement with tax authorities; ii. the approach to public policy advocacy on tax; iii. the processes for collecting and considering the views and concerns of stakeholders, including external stakeholders.	Sumitomo Chemical Group Tax Policy	P.94
207-4		Country-by-country reporting	a. All tax jurisdictions where the entities included in the organization's audited consolidated financial statements, or in the financial information filed on public record, are resident for tax purposes. b. For each tax jurisdiction reported in Disclosure 207-4-a: i. Names of the resident entities; ii. Primary activities of the organization; iii. Number of employees, and the basis of calculation of this number; iv. Revenues from third-party sales; v. Revenues from intra-group transactions with other tax jurisdictions; vi. Profit/loss before tax; vii. Tangible assets other than cash and cash equivalents; viii. Corporate income tax paid on a cash basis; ix. Corporate income tax accrued on profit/loss; x. Reasons for the difference between corporate income tax accrued on profit/loss and the tax due if the statutory tax rate is applied to profit/loss before tax. c. The time period covered by the information reported in Disclosure 207-4.	Corporate Income Taxes Paid (Sumitomo Chemical Group) *Consolidated Financial Statements*	P.95

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
ENVIRONMENT					
GRI301: Materials 2016					
301-1		Materials used by weight or volume	a. Total weight or volume of materials that are used to produce and package the organization's primary products and services during the reporting period, by: i. non-renewable materials used; ii. renewable materials used.	Environmental Activity Goals and Results Resource Saving and Waste Reduction Environmental Performance Waste Disposal Flow Chart and Results Initiatives to Recycle and Reuse Plastic and Other Waste Sharing Environmental Protection and Management Targets (Japan, Overseas)	P.107 PP.122-123 P.130 PP.141-143 P.155 P.156 PP.157-158
301-2		Recycled input materials used	a. Percentage of recycled input materials used to manufacture the organization's primary products and services.	Waste Disposal Flow Chart and Results Initiatives to Recycle and Reuse Plastic and Other Waste Sharing Environmental Protection and Management Targets (Japan, Overseas)	P.155 P.156 PP.157-158
301-3		Reclaimed products and their packaging materials	a. Percentage of reclaimed products and their packaging materials for each product category. b. How the data for this disclosure have been collected.	—	—
GRI302: Energy 2016					
302-1	○	Energy consumption within the organization	a. Total fuel consumption within the organization from non-renewable sources, in joules or multiples, and including fuel types used. b. Total fuel consumption within the organization from renewable sources, in joules or multiples, and including fuel types used. c. In joules, watt-hours or multiples, the total: i. electricity consumption ii. heating consumption iii. cooling consumption iv. steam consumption d. In joules, watt-hours or multiples, the total: i. electricity sold ii. heating sold iii. cooling sold iv. steam sold e. Total energy consumption within the organization, in joules or multiples. f. Standards, methodologies, assumptions, and/or calculation tools used. g. Source of the conversion factors used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Calculation Standards for Environmental and Social Data Indicators	PP.114-116 PP.249-251
302-2	○	Energy consumption outside of the organization	a. Energy consumption outside of the organization, in joules or multiples. b. Standards, methodologies, assumptions, and/or calculation tools used. c. Source of the conversion factors used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Calculation Standards for Environmental and Social Data Indicators	PP.114-116 PP.249-251
302-3	○	Energy intensity	a. Energy intensity ratio for the organization. b. Organization-specific metric (the denominator) chosen to calculate the ratio. c. Types of energy included in the intensity ratio; whether fuel, electricity, heating, cooling, steam, or all. d. Whether the ratio uses energy consumption within the organization, outside of it, or both.	Environmental Activity Goals and Results Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Energy Saving	P.107 PP.114-116 P.140
302-4	○	Reduction of energy consumption	a. Amount of reductions in energy consumption achieved as a direct result of conservation and efficiency initiatives, in joules or multiples. b. Types of energy included in the reductions; whether fuel, electricity, heating, cooling, steam, or all. c. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it. d. Standards, methodologies, assumptions, and/or calculation tools used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Environmental Performance Energy Saving Calculation Standards for Environmental and Social Data Indicators	PP.114-116 P.130 P.140 PP.249-251

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
302-5	○	Reductions in energy requirements of products and services	a. Reductions in energy requirements of sold products and services achieved during the reporting period, in joules or multiples. b. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it. c. Standards, methodologies, assumptions, and/or calculation tools used.	Key Performance Indicator (KPI) for Material Issues Sumika Sustainable Solutions Calculation Standards for Environmental and Social Data Indicators	PP.19-22 PP.32-37 PP.249-251
GRI303: Water and Effluents 2018					
303-1		Interactions with water as a shared resource	a. A description of how the organization interacts with water, including how and where water is withdrawn, consumed, and discharged, and the water-related impacts caused or contributed to, or directly linked to the organization's activities, products or services by a business relationship (e.g., impacts caused by runoff). b. A description of the approach used to identify water-related impacts, including the scope of assessments, their timeframe, and any tools or methodologies used. c. A description of how water-related impacts are addressed, including how the organization works with stakeholders to steward water as a shared resource, and how it engages with suppliers or customers with significant water-related impacts. d. An explanation of the process for setting any water-related goals and targets that are part of the organization's management approach, and how they relate to public policy and the local context of each area with water stress.	Environmental Activity Goals and Results Environmental Performance Sustainable Use of Water	P.108 P.130 P.142 PP.134-136
303-2		Management of water discharge-related impacts	a. A description of any minimum standards set for the quality of effluent discharge, and how these minimum standards were determined, including: i. how standards for facilities operating in locations with no local discharge requirements were determined; ii. any internally developed water quality standards or guidelines; iii. any sector-specific standards considered; iv. whether the profile of the receiving waterbody was considered.	Environmental Activity Goals and Results Sustainable Use of Natural Capital (Management System) Responsible Care (Management System) Protecting the Aquatic Environment	P.108 P.129 PP.96-97 PP.134-135
303-3		Water withdrawal	a. Total water withdrawal from all areas in megaliters, and a breakdown of this total by the following sources, if applicable: i. Surface water; ii. Groundwater; iii. Seawater; iv. Produced water; v. Third-party water. b. Total water withdrawal from all areas with water stress in megaliters, and a breakdown of this total by the following sources, if applicable: i. Surface water; ii. Groundwater; iii. Seawater; iv. Produced water; v. Third-party water, and a breakdown of this total by the withdrawal sources listed in i–iv. c. A breakdown of total water withdrawal from each of the sources listed in Disclosures 303-3-a and 303-3-b in megaliters by the following categories: i. Freshwater (≤1,000 mg/L Total Dissolved Solids); ii. Other water (>1,000 mg/L Total Dissolved Solids). d. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.	Water Usage Environmental Performance Calculation Standards for Environmental and Social Data Indicators	P.135 P.130 P.142 PP.249-251

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
303-4		Water discharge	a. Total water discharge to all areas in megaliters, and a breakdown of this total by the following types of destination, if applicable: i. Surface water; ii. Groundwater; iii. Seawater; iv. Third-party water, and the volume of this total sent for use to other organizations, if applicable. b. A breakdown of total water discharge to all areas in megaliters by the following categories: i. Freshwater (≤1,000 mg/L Total Dissolved Solids); ii. Other water (>1,000 mg/L Total Dissolved Solids). c. Total water discharge to all areas with water stress in megaliters, and a breakdown of this total by the following categories: i. Freshwater (≤1,000 mg/L Total Dissolved Solids); ii. Other water (>1,000 mg/L Total Dissolved Solids). d. Priority substances of concern for which discharges are treated, including: i. how priority substances of concern were defined, and any international standard, authoritative list, or criteria used; ii. the approach for setting discharge limits for priority substances of concern; iii. number of incidents of non-compliance with discharge limits. e. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.	Sustainable Use of Water Environmental Performance Calculation Standards for Environmental and Social Data Indicators	PP.134-136 P.130 P.142 PP.249-251
303-5		Water consumption	a. Total water consumption from all areas in megaliters. b. Total water consumption from all areas with water stress in megaliters. c. Change in water storage in megaliters, if water storage has been identified as having a significant water-related impact. d. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used, including whether the information is calculated, estimated, modeled, or sourced from direct measurements, and the approach taken for this, such as the use of any sector-specific factors.	Protecting the Aquatic Environment Environmental Performance Calculation Standards for Environmental and Social Data Indicators	PP.134-135 P.130 P.142 PP.249-251
GRI304: Biodiversity 2016					
304-1		Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	a. For each operational site owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas, the following information: i. Geographic location; ii. Subsurface and underground land that may be owned, leased, or managed by the organization; iii. Position in relation to the protected area (in the area, adjacent to, or containing portions of the protected area) or the high biodiversity value area outside protected areas; iv. Type of operation (office, manufacturing or production, or extractive); v. Size of operational site in km^2 (or another unit, if appropriate); vi. Biodiversity value characterized by the attribute of the protected area or area of high biodiversity value outside the protected area (terrestrial, freshwater, or maritime ecosystem); vii. Biodiversity value characterized by listing of protected status (such as IUCN Protected Area Management Categories, Ramsar Convention, national legislation).	Biodiversity Preservation Initiatives	PP.131-132
304-2		Significant impacts of activities, products, and services on biodiversity	a. Nature of significant direct and indirect impacts on biodiversity with reference to one or more of the following: i. Construction or use of manufacturing plants, mines, and transport infrastructure; ii. Pollution (introduction of substances that do not naturally occur in the habitat from point and non-point sources); iii. Introduction of invasive species, pests, and pathogens; iv. Reduction of species; v. Habitat conversion; vi. Changes in ecological processes outside the natural range of variation (such as salinity or changes in groundwater level). b. Significant direct and indirect positive and negative impacts with reference to the following: i. Species affected; ii. Extent of areas impacted; iii. Duration of impacts; iv. Reversibility or irreversibility of the impacts.	—	—

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
304-3		Habitats protected or restored	a. Size and location of all habitat areas protected or restored, and whether the success of the restoration measure was or is approved by independent external professionals. b. Whether partnerships exist with third parties to protect or restore habitat areas distinct from where the organization has overseen and implemented restoration or protection measures. c. Status of each area based on its condition at the close of the reporting period. d. Standards, methodologies, and assumptions used.	Biodiversity Preservation Initiatives	P.132
304-4		IUCN Red List species and national conservation list species with habitats in areas affected by operations	a. Total number of IUCN Red List species and national conservation list species with habitats in areas affected by the operations of the organization, by level of extinction risk: i. Critically endangered ii. Endangered iii. Vulnerable iv. Near threatened v. Least concern	Evaluating Water-Related Problems Biodiversity Preservation Initiatives	P.135 P.132
GRI305: Emissions 2016					
305-1	○	Direct (Scope 1) GHG missions	a. Gross direct (Scope 1) GHG emissions in metric tons of CO_2 equivalent. b. Gases included in the calculation; whether CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF_3, or all. c. Biogenic CO_2 emissions in metric tons of CO_2 equivalent. d. Base year for the calculation, if applicable, including: i. the rationale for choosing it; ii. emissions in the base year; iii. the context for any significant changes in emissions that triggered recalculations of base year emissions. e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source. f. Consolidation approach for emissions; whether equity share, financial control, or operational control. g. Standards, methodologies, assumptions, and/or calculation tools used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Environmental Performance Calculation Standards for Environmental and Social Data Indicators	PP.114-115 P.130 P.143 PP.249-251
305-2	○	Energy indirect (Scope 2) GHG emissions	a. Gross location-based energy indirect (Scope 2) GHG emissions in metric tons of CO_2 equivalent. b. If applicable, gross market-based energy indirect (Scope 2) GHG emissions in metric tons of CO_2 equivalent. c. If available, the gases included in the calculation; whether CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF_3, or all. d. Base year for the calculation, if applicable, including: i. the rationale for choosing it; ii. emissions in the base year; iii. the context for any significant changes in emissions that triggered recalculations of base year emissions. e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source. f. Consolidation approach for emissions; whether equity share, financial control, or operational control. g. Standards, methodologies, assumptions, and/or calculation tools used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Environmental Performance Calculation Standards for Environmental and Social Data Indicators	PP.114-115 P.130 P.143 PP.249-251
305-3	○	Other indirect (Scope 3) GHG emissions	a. Gross other indirect (Scope 3) GHG emissions in metric tons of CO_2 equivalent. b. If available, the gases included in the calculation; whether CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF_3, or all. c. Biogenic CO_2 emissions in metric tons of CO_2 equivalent. d. Other indirect (Scope 3) GHG emissions categories and activities included in the calculation. e. Base year for the calculation, if applicable, including: i. the rationale for choosing it; ii. emissions in the base year; iii. the context for any significant changes in emissions that triggered recalculations of base year emissions. f. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source. g. Standards, methodologies, assumptions, and/or calculation tools used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Logistics Initiatives Calculation Standards for Environmental and Social Data Indicators	P.116 P.119 PP.249-251

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
305-4	○	GHG emissions intensity	a. GHG emissions intensity ratio for the organization. b. Organization-specific metric (the denominator) chosen to calculate the ratio. c. Types of GHG emissions included in the intensity ratio; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3). d. Gases included in the calculation; whether CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF_3, or all.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Environmental Performance	PP.114-116 P.130 P.143
305-5	○	Reduction of GHG emissions	a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO_2 equivalent. b. Gases included in the calculation; whether CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF_3, or all. c. Base year or baseline, including the rationale for choosing it. d. Scopes in which reductions took place; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3). e. Standards, methodologies, assumptions, and/or calculation tools used.	Disclosure in Line with TCFD Recommendations (Metrics and Targets (Risk)) Environmental Performance Calculation Standards for Environmental and Social Data Indicators	PP.114-116 P.130 P.143 PP.249-251
305-6	○	Emissions of ozone-depleting substances (ODS)	a. Production, imports, and exports of ODS in metric tons of CFC-11 (trichlorofluoromethane) equivalent. b. Substances included in the calculation. c. Source of the emission factors used. d. Standards, methodologies, assumptions, and/or calculation tools used.	Environmental Performance Prevention of Ozone Layer Depletion Calculation Standards for Environmental and Social Data Indicators	P.130 P.141 P.149 PP.249-251
305-7	○	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	a. Significant air emissions, in kilograms or multiples, for each of the following: i. NOx ii. SOx iii. Persistent organic pollutants (POP) iv. Volatile organic compounds (VOC) v. Hazardous air pollutants (HAP) vi. Particulate matter (PM) vii. Other standard categories of air emissions identified in relevant regulations b. Source of the emission factors used. c. Standards, methodologies, assumptions, and/or calculation tools used.	Environmental Performance Preventing Pollution: Atmospheric Emissions of SOx, NOx, Soot, and Dust Addressing PRTR and VOCs Calculation Standards for Environmental and Social Data Indicators	P.130 P.143 P.146 PP.148-149 PP.249-251
GRI306: Waste 2020					
306-1		Waste generation and significant waste-related impacts	a. For the organization's significant actual and potential waste-related impacts, a description of: i. the inputs, activities, and outputs that lead or could lead to these impacts; ii. whether these impacts relate to waste generated in the organization's own activities or to waste generated upstream or downstream in its value chain.	Resource Saving and Waste Reduction	PP.122-123
306-2		Management of significant waste-related impacts	a. Actions, including circularity measures, taken to prevent waste generation in the organization's own activities and upstream and downstream in its value chain, and to manage significant impacts from waste generated. b. If the waste generated by the organization in its own activities is managed by a third party, a description of the processes used to determine whether the third party manages the waste in line with contractual or legislative obligations. c. The processes used to collect and monitor waste-related data.	Environmental Activity Goals and Results Resource Saving and Waste Reduction Digitization of Manifests to Be Prepared Pursuant to the Waste Management and Public Cleansing Act	P.107 PP.122-123 P.154
306-3		Waste generated	a. Total weight of waste generated in metric tons, and a breakdown of this total by composition of the waste. b. Contextual information necessary to understand the data and how the data has been compiled.	Environmental Performance Industrial Waste Reduction Sharing Environmental Protection and Management Targets (Japan, Overseas)	P.130 P.142 PP.153-156 PP.157-158

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
306-4		Waste diverted from disposal	a. Total weight of waste diverted from disposal in metric tons, and a breakdown of this total by composition of the waste. b. Total weight of hazardous waste diverted from disposal in metric tons, and a breakdown of this total by the following recovery operations: i. Preparation for reuse; ii. Recycling; iii. Other recovery operations. c. Total weight of non-hazardous waste diverted from disposal in metric tons, and a breakdown of this total by the following recovery operations: i. Preparation for reuse; ii. Recycling; iii. Other recovery operations. d. For each recovery operation listed in Disclosures 306-4-b and 306-4-c, a breakdown of the total weight in metric tons of hazardous waste and of non-hazardous waste diverted from disposal: i. onsite; ii. offsite. e. Contextual information necessary to understand the data and how the data has been compiled.	Waste Disposal Flow Chart, List of Results by Item in connection with the Disposal of Waste, Categories of Hazardous and Non-Hazardous Waste, Results of Recycling and Reusing Waste (including valuable resources and recovered waste heat), Results of Recycling and Reusing Plastic Waste (including valuable resources and recovered waste heat) Sharing Environmental Protection and Management Targets (Japan, Overseas)	PP.155-156 PP.157-158
306-5		Waste directed to disposal	a. Total weight of waste directed to disposal in metric tons, and a breakdown of this total by composition of the waste. b. Total weight of hazardous waste directed to disposal in metric tons, and a breakdown of this total by the following disposal operations: i. Incineration (with energy recovery); ii. Incineration (without energy recovery); iii. Landfilling; iv. Other disposal operations. c. Total weight of non-hazardous waste directed to disposal in metric tons, and a breakdown of this total by the following disposal operations: i. Incineration (with energy recovery); ii. Incineration (without energy recovery); iii. Landfilling; iv. Other disposal operations. d. For each disposal operation listed in Disclosures 306-5-b and 306-5-c, a breakdown of the total weight in metric tons of hazardous waste and of non-hazardous waste directed to disposal: i. onsite; ii. offsite. e. Contextual information necessary to understand the data and how the data has been compiled.	Waste Disposal Flow Chart, List of Results by Item in connection with the Disposal of Waste, Categories of Hazardous and Non-Hazardous Waste, Results of Recycling and Reusing Waste (including valuable resources and recovered waste heat), Results of Recycling and Reusing Plastic Waste (including valuable resources and recovered waste heat) Sharing Environmental Protection and Management Targets (Japan, Overseas)	PP.155-156 PP.157-158
GRI307: Environmental Compliance 2016					
307-1	○	Non-compliance with environmental laws and regulations	a. Significant fines and non-monetary sanctions for non-compliance with environmental laws and/or regulations in terms of: i. total monetary value of significant fines; ii. total number of non-monetary sanctions; iii. cases brought through dispute resolution mechanisms. b. If the organization has not identified any non-compliance with environmental laws and/or regulations, a brief statement of this fact is sufficient.	Environmental Activity Goals and Results Compliance with Environmental Laws and Regulations	P.108 P.143
GRI308: Supplier Environmental Assessment 2016					
308-1		New suppliers that were screened using environmental criteria	a. Percentage of new suppliers that were screened using environmental criteria.	Initiative for Suppliers Promoting Sustainable Procurement throughout the Supply Chain	P.180 P.182
308-2		Negative environmental impacts in the supply chain and actions taken	a. Number of suppliers assessed for environmental impacts. b. Number of suppliers identified as having significant actual and potential negative environmental impacts. c. Significant actual and potential negative environmental impacts identified in the supply chain. d. Percentage of suppliers identified as having significant actual and potential negative environmental impacts with which improvements were agreed upon as a result of assessment. e. Percentage of suppliers identified as having significant actual and potential negative environmental impacts with which relationships were terminated as a result of assessment, and why.	Supplier Information Exchange Meeting Initiative for Suppliers Promoting Sustainable Procurement throughout the Supply Chain	P.183 P.180 P.182

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
SOCIAL					
GRI401: Employment 2016					
401-1		New employee hires and employee turnover	a. Total number and rate of new employee hires during the reporting period, by age group, gender and region. b. Total number and rate of employee turnover during the reporting period, by age group, gender and region.	Number of New Graduate and Mid-career Hires, Percentage of Mid-career Hires, Number and Percentage of People Who Left the Company	P.240
401-2		Benefits provided to full-time employees that are not provided to temporary or part-time employees	a. Benefits which are standard for full-time employees of the organization but are not provided to temporary or part-time employees, by significant locations of operation. These include, as a minimum: i. life insurance; ii. health care; iii. disability and invalidity coverage; iv. parental leave; v. retirement provision; vi. stock ownership; vii. others. b. The definition used for 'significant locations of operation'.	Work-Life Balance	PP.190-193
401-3		Parental leave	a. Total number of employees that were entitled to parental leave, by gender. b. Total number of employees that took parental leave, by gender. c. Total number of employees that returned to work in the reporting period after parental leave ended, by gender. d. Total number of employees that returned to work after parental leave ended that were still employed 12 months after their return to work, by gender. e. Return to work and retention rates of employees that took parental leave, by gender.	Results of Systems for Work-Life Balance Return Rate of Employees Who Take Cessation from Work for Childcare	P.192 P.241
GRI402: Labor/Management Relations 2016					
402-1		Minimum notice periods regarding operational changes	a. Minimum number of weeks' notice typically provided to employees and their representatives prior to the implementation of significant operational changes that could substantially affect them. b. For organizations with collective bargaining agreements, report whether the notice period and provisions for consultation and negotiation are specified in collective agreements.	Communication with Employees	P.189
GRI403: Occupational Health and Safety 2018					
403-1	○	Occupational health and safety management system	a. A statement of whether an occupational health and safety management system has been implemented, including whether: i. the system has been implemented because of legal requirements and, if so, a list of the requirements; ii. the system has been implemented based on recognized risk management and/or management system standards/guidelines and, if so, a list of the standards/guidelines. b. A description of the scope of workers, activities, and workplaces covered by the occupational health and safety management system, and an explanation of whether and, if so, why any workers, activities, or workplaces are not covered.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Basic Stance) Occupational Safety and Health Management System	P.206 P.242
403-2	○	Hazard identification, risk assessment, and incident investigation	a. A description of the processes used to identify work-related hazards and assess risks on a routine and non-routine basis, and to apply the hierarchy of controls in order to eliminate hazards and minimize risks, including: i. how the organization ensures the quality of these processes, including the competency of persons who carry them out; ii. how the results of these processes are used to evaluate and continually improve the occupational health and safety management system. b. A description of the processes for workers to report work-related hazards and hazardous situations, and an explanation of how workers are protected against reprisals. c. A description of the policies and processes for workers to remove themselves from work situations that they believe could cause injury or ill health, and an explanation of how workers are protected against reprisals. d. A description of the processes used to investigate work-related incidents, including the processes to identify hazards and assess risks relating to the incidents, to determine corrective actions using the hierarchy of controls, and to determine improvements needed in the occupational health and safety management system.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Management System, Examples of Initiatives) Responsible Care (RC) Audits	PP.206-212 PP.101-103
403-3	○	Occupational health services	a. A description of the occupational health services' functions that contribute to the identification and elimination of hazards and minimization of risks, and an explanation of how the organization ensures the quality of these services and facilitates workers' access to them.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Examples of Initiatives) Responsible Care (RC) Audits	PP.208-212 PP.101-103

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
403-4	○	Worker participation, consultation, and communication on occupational health and safety	a. A description of the processes for worker participation and consultation in the development, implementation, and evaluation of the occupational health and safety management system, and for providing access to and communicating relevant information on occupational health and safety to workers. b. Where formal joint management–worker health and safety committees exist, a description of their responsibilities, meeting frequency, decision-making authority, and whether and, if so, why any workers are not represented by these committees.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Management System) Communication with Employees	P.206 P.189
403-5	○	Worker training on occupational health and safety	a. A description of any occupational health and safety training provided to workers, including generic training as well as training on specific work-related hazards, hazardous activities, or hazardous situations.	Safety Education and Drills	PP.210-211
403-6	○	Promotion of worker health	a. An explanation of how the organization facilitates workers' access to non-occupational medical and healthcare services, and the scope of access provided. b. A description of any voluntary health promotion services and programs offered to workers to address major non-work-related health risks, including the specific health risks addressed, and how the organization facilitates workers' access to these services and programs.	Healthcare	PP.203-205
403-7	○	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	a. A description of the organization's approach to preventing or mitigating significant negative occupational health and safety impacts that are directly linked to its operations, products or services by its business relationships, and the related hazards and risks.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Examples of Initiatives) Preventing Severe Accidents in Subcontracted Operations and Construction Operations Logistics Initiatives	PP.208-212 P.209 P.212
403-8	○	Workers covered by an occupational health and safety management system	a. If the organization has implemented an occupational health and safety management system based on legal requirements and/or recognized standards/guidelines: i. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system; ii. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system that has been internally audited; iii. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system that has been audited or certified by an external party. b. Whether and, if so, why any workers have been excluded from this disclosure, including the types of worker excluded. c. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Basic Stance) Occupational Safety and Health Management System	P.206 P.242
403-9	○	Work-related injuries	a. For all employees: i. The number and rate of fatalities as a result of work-related injury; ii. The number and rate of high-consequence work-related injuries (excluding fatalities); iii. The number and rate of recordable work-related injuries; iv. The main types of work-related injury; v. The number of hours worked. b. For all workers who are not employees but whose work and/or workplace is controlled by the organization: i. The number and rate of fatalities as a result of work-related injury; ii. The number and rate of high-consequence work-related injuries (excluding fatalities); iii. The number and rate of recordable work-related injuries; iv. The main types of work-related injury; v. The number of hours worked. c. The work-related hazards that pose a risk of high-consequence injury, including: i. how these hazards have been determined; ii. which of these hazards have caused or contributed to high-consequence injuries during the reporting period; iii. actions taken or underway to eliminate these hazards and minimize risks using the hierarchy of controls. d. Any actions taken or underway to eliminate other work-related hazards and minimize risks using the hierarchy of controls. e. Whether the rates have been calculated based on 200,000 or 1,000,000 hours worked. f. Whether and, if so, why any workers have been excluded from this disclosure, including the types of worker excluded. g. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Basic Stance, Goals and Results) Safety Achievements, Industrial Safety and Disaster Prevention Results Calculation Standards for Environmental and Social Data Indicators	PP.206-208 PP.245-246 P.251

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
403-10	○	Work-related ill health	a. For all employees: i. The number of fatalities as a result of work-related ill health; ii. The number of cases of recordable work-related ill health; iii. The main types of work-related ill health. b. For all workers who are not employees but whose work and/or workplace is controlled by the organization: i. The number of fatalities as a result of work-related ill health; ii. The number of cases of recordable work-related ill health; iii. The main types of work-related ill health. c. The work-related hazards that pose a risk of ill health, including: i. how these hazards have been determined; ii. which of these hazards have caused or contributed to cases of ill health during the reporting period; iii. actions taken or underway to eliminate these hazards and minimize risks using the hierarchy of controls. d. Whether and, if so, why any workers have been excluded from this disclosure, including the types of worker excluded. e. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Basic Stance, Goals and Results) Safety Achievements	PP.206-208 P.245
GRI404: Training and Education 2016					
404-1		Average hours of training per year per employee	a. Average hours of training that the organization's employees have undertaken during the reporting period, by: i. gender; ii. employee category.	Time Spent on Training Training for Development of Global Talent Management Skills Enhancement Training Human Resources Development and Growth	P.200 P.201 P.202 PP.199-202
404-2		Programs for upgrading employee skills and transition assistance programs	a. Type and scope of programs implemented and assistance provided to upgrade employee skills. b. Transition assistance programs provided to facilitate continued employability and the management of career endings resulting from retirement or termination of employment.	Organization of Training Programs SUMIKA Learning Square	P.199 P.200
404-3		Percentage of employees receiving regular performance and career development reviews	a. Percentage of total employees by gender and by employee category who received a regular performance and career development review during the reporting period.	Human Resources System Initiatives, Characteristics of Our HR Systems	PP.184-185
GRI405: Diversity and Equal Opportunity 2016					
405-1	○	Diversity of governance bodies and employees	a. Percentage of individuals within the organization's governance bodies in each of the following diversity categories: i. Gender; ii. Age group: under 30 years old, 30–50 years old, over 50 years old; iii. Other indicators of diversity where relevant (such as minority or vulnerable groups). b. Percentage of employees per employee category in each of the following diversity categories: i. Gender; ii. Age group: under 30 years old, 30–50 years old, over 50 years old; iii. Other indicators of diversity where relevant (such as minority or vulnerable groups).	Directors & Senior Management Basic Data, Promotion of DE&I	PP.73-76 PP.238-241
405-2	○	Ratio of basic salary and remuneration of women to men	a. Ratio of the basic salary and remuneration of women to men for each employee category, by significant locations of operation. b. The definition used for 'significant locations of operation'.	Average monthly wages	P.238
GRI406: Non-discrimination 2016					
406-1	○	Incidents of discrimination and corrective actions taken	a. Total number of incidents of discrimination during the reporting period. b. Status of the incidents and actions taken with reference to the following: i. Incident reviewed by the organization; ii. Remediation plans being implemented; iii. Remediation plans that have been implemented, with results reviewed through routine internal management review processes; iv. Incident no longer subject to action.	Grievance Mechanisms	P.174

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
GRI407: Freedom of Association and Collective Bargaining 2016					
407-1	○	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	a. Operations and suppliers in which workers' rights to exercise freedom of association or collective bargaining may be violated or at significant risk either in terms of: i. type of operation (such as manufacturing plant) and supplier; ii. countries or geographic areas with operations and suppliers considered at risk. b. Measures taken by the organization in the reporting period intended to support rights to exercise freedom of association and collective bargaining.	Respect for Human Rights Procurement	PP.165-177 PP.178-183
GRI408: Child Labor 2016					
408-1	○	Operations and suppliers at significant risk for incidents of child labor	a. Operations and suppliers considered to have significant risk for incidents of: i. child labor; ii. young workers exposed to hazardous work. b. Operations and suppliers considered to have significant risk for incidents of child labor either in terms of: i. type of operation (such as manufacturing plant) and supplier; ii. countries or geographic areas with operations and suppliers considered at risk. c. Measures taken by the organization in the reporting period intended to contribute to the effective abolition of child labor.	Respect for Human Rights Procurement	PP.165-177 PP.178-183
GRI409: Forced or Compulsory Labor 2016					
409-1	○	Operations and suppliers at significant risk for incidents of forced or compulsory labor	a. Operations and suppliers considered to have significant risk for incidents of forced or compulsory labor either in terms of: i. type of operation (such as manufacturing plant) and supplier; ii. countries or geographic areas with operations and suppliers considered at risk. b. Measures taken by the organization in the reporting period intended to contribute to the elimination of all forms of forced or compulsory labor.	Respect for Human Rights Procurement	PP.165-177 PP.178-183
GRI410: Security Practices 2016					
410-1	○	Security personnel trained in human rights policies or procedures	a. Percentage of security personnel who have received formal training in the organization's human rights policies or specific procedures and their application to security. b. Whether training requirements also apply to third-party organizations providing security personnel.	—	—
GRI411: Rights of Indigenous Peoples 2016					
411-1		Incidents of violations involving rights of indigenous peoples	a. Total number of identified incidents of violations involving the rights of indigenous peoples during the reporting period. b. Status of the incidents and actions taken with reference to the following: i. Incident reviewed by the organization; ii. Remediation plans being implemented; iii. Remediation plans that have been implemented, with results reviewed through routine internal management review processes; iv. Incident no longer subject to action.	Not applicable	—
GRI412: Human Rights Assessment 2016					
412-1	○	Operations that have been subject to human rights reviews or impact assessments	a. Total number and percentage of operations that have been subject to human rights reviews or human rights impact assessments, by country.	Human Rights Due Diligence and Relief Efforts	PP.168-173
412-2	○	Employee training on human rights policies or procedures	a. Total number of hours in the reporting period devoted to training on human rights policies or procedures concerning aspects of human rights that are relevant to operations. b. Percentage of employees trained during the reporting period in human rights policies or procedures concerning aspects of human rights that are relevant to operations.	Raising Employees' Awareness of Human Rights	PP.174-175
412-3		Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening	a. Total number and percentage of significant investment agreements and contracts that include human rights clauses or that underwent human rights screening. b. The definition used for 'significant investment agreements'.	Respect for Human Rights A. Introducing Human Rights Clauses into Contracts	PP.165-177 P.172

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
GRI413: Local Communities 2016					
413-1		Operations with local community engagement, impact assessments, and development programs	a. Percentage of operations with implemented local community engagement, impact assessments, and/or development programs, including the use of: i. social impact assessments, including gender impact assessments, based on participatory processes; ii. environmental impact assessments and ongoing monitoring; iii. public disclosure of results of environmental and social impact assessments; iv. local community development programs based on local communities' needs; v. stakeholder engagement plans based on stakeholder mapping; vi. broad based local community consultation committees and processes that include vulnerable groups; vii. works councils, occupational health and safety committees and other worker representation bodies to deal with impacts; viii. formal local community grievance processes.	Initiatives to Ensure Safety at All Group Workplaces Promoting Responsible Care Realization Project in the Environmental Field Coexistence with Local Communities	P.228 P.229 P.237
413-2		Operations with significant actual and potential negative impacts on local communities	a. Operations with significant actual and potential negative impacts on local communities, including: i. the location of the operations; ii. the significant actual and potential negative impacts of operations.	Preparation for Large-Scale Natural Disasters Industrial Safety and Disaster Prevention (Examples of Initiatives)	P.210 PP.209-212
GRI414: Supplier Social Assessment 2016					
414-1		New suppliers that were screened using social criteria	a. Percentage of new suppliers that were screened using social criteria.	Initiative for Suppliers	P.180
414-2		Negative social impacts in the supply chain and actions taken	a. Number of suppliers assessed for social impacts. b. Number of suppliers identified as having significant actual and potential negative social impacts. c. Significant actual and potential negative social impacts identified in the supply chain. d. Percentage of suppliers identified as having significant actual and potential negative social impacts with which improvements were agreed upon as a result of assessment. e. Percentage of suppliers identified as having significant actual and potential negative social impacts with which relationships were terminated as a result of assessment, and why.	Human Rights Due Diligence and Relief Efforts Initiative for Suppliers	PP.168-173 P.180
GRI415: Public Policy 2016					
415-1		Political contributions	a. Total monetary value of financial and in-kind political contributions made directly and indirectly by the organization by country and recipient/beneficiary. b. If applicable, how the monetary value of in-kind contributions was estimated.	—	—
GRI416: Customer Health and Safety 2016					
416-1	○	Assessment of the health and safety impacts of product and service categories	a. Percentage of significant product and service categories for which health and safety impacts are assessed for improvement.	Risk Assessment and Management throughout the Entire Product Life Cycle Risk Management for Product Safety	P.215 P.215
416-2	○	Incidents of non-compliance concerning the health and safety impacts of products and services	a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning the health and safety impacts of products and services within the reporting period, by: i. incidents of non-compliance with regulations resulting in a fine or penalty; ii. incidents of non-compliance with regulations resulting in a warning; iii. incidents of non-compliance with voluntary codes. b. If the organization has not identified any non-compliance with regulations and/or voluntary codes, a brief statement of this fact is sufficient.	Not applicable	—
GRI417: Marketing and Labeling 2016					
417-1	○	Requirements for product and service information and labeling	a. Whether each of the following types of information is required by the organization's procedures for product and service information and labeling: i. The sourcing of components of the product or service; ii. Content, particularly with regard to substances that might produce an environmental or social impact; iii. Safe use of the product or service; iv. Disposal of the product and environmental or social impacts; v. Other (explain). b. Percentage of significant product or service categories covered by and assessed for compliance with such procedures.	Providing Products and Services of Stable Quality The Information Sharing System and Ensuring thorough Compliance Effective Use of SuCCESS Providing Toxicological Information Sharing Information on Chemicals in Products	P.216 P.216 P.217 P.217 P.218

GRI Standards Reference Table

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2022	
417-2		Incidents of non-compliance concerning product and service information and labeling	a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning product and service information and labeling, by: i. incidents of non-compliance with regulations resulting in a fine or penalty; ii. incidents of non-compliance with regulations resulting in a warning; iii. incidents of non-compliance with voluntary codes. b. If the organization has not identified any non-compliance with regulations and/or voluntary codes, a brief statement of this fact is sufficient.	Not applicable	—
417-3		Incidents of non-compliance concerning marketing communications	a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship, by: i. incidents of non-compliance with regulations resulting in a fine or penalty; ii. incidents of non-compliance with regulations resulting in a warning; iii. incidents of non-compliance with voluntary codes. b. If the organization has not identified any non-compliance with regulations and/or voluntary codes, a brief statement of this fact is sufficient.	Not applicable	—
GRI418: Customer Privacy 2016					
418-1		Substantiated complaints concerning breaches of customer privacy and losses of customer data	a. Total number of substantiated complaints received concerning breaches of customer privacy, categorized by: i. complaints received from outside parties and substantiated by the organization; ii. complaints from regulatory bodies. b. Total number of identified leaks, thefts, or losses of customer data. c. If the organization has not identified any substantiated complaints, a brief statement of this fact is sufficient.	Not applicable	—
GRI419: Socioeconomic Compliance 2016					
419-1	○	Non-compliance with laws and regulations in the social and economic area	a. Significant fines and non-monetary sanctions for non-compliance with laws and/or regulations in the social and economic area in terms of: i. total monetary value of significant fines; ii. total number of non-monetary sanctions; iii. cases brought through dispute resolution mechanisms. b. If the organization has not identified any non-compliance with laws and/or regulations, a brief statement of this fact is sufficient. c. The context against which significant fines and non-monetary sanctions were incurred.	Compliance Anti-corruption	PP.83-90 PP.91-93

TCFD Index

This index provides links to the Sumitomo Chemical Group's disclosures on recommendations of the Task Force on Climate-related Financial Disclosure (TCFD).

Recommended disclosure content		Relevant sections	
		The Sustainability Data Book 2022	Website and related reports
[Governance] Disclose the organization's governance pertaining to climate-related risks and opportunities.			
a) Framework of the Board of Directors' oversight of climate related risks and opportunities		• Corporate Governance P.61 • Organization of Addressing Climate Change P.110	• Annual Report 2022 P.41 • Consolidated Financial Statements [Status of Corporate Governance,etc] • CDP Climate Change 2022 (C1.1,C1.2)
b) The role of management in assessing and managing climate-related risks and opportunities			
[Strategy] Disclose the actual or latent impact on the business, strategy, and financial planning of climate-related risks and opportunities if such information is important.			
a) Climate-related risks and opportunities the organization has identified over the short-, mid- and long-term		• Risks and Opportunities P.111 • Scenario Analysis PP.112-113	• Annual Report 2022 PP.41-44 • Consolidated Financial Statements [Risk Factors] • CDP Climate Change 2022 (C2.1, C3.2) • CDP Climate Change 2022 (C2.3, C3.3) • CDP Climate Change 2022 (C2.4, C3.4) • CDP Climate Change 2022 (C3.1, C3.5)
b) Impact of climate-related risks and opportunities on the organization's business, strategy and financial planning			
c) Resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario			
[Risk management] Disclose how the organization is identifying, evaluating, and controlling climate related risks			
a) Organization's processes for identifying and assessing climate-related risks		• Organization of Addressing Climate Change P.110 • Risks and Opportunities P.111 • Scenario Analysis PP.112-113	• Annual Report 2022 PP.41-44 • CDP Climate Change 2022 (C2.2)
b) Organization's processes for managing climate-related risks			
c) How processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management			
[Metrics and targets] Disclose indicators and targets used in the evaluation and control of climate related risks and opportunities if such information is important.			
a) Metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process		• Grand Design Toward Achieving Carbon Neutrality P.109 • GHG Emission Reduction Targets Approved under the Science Based Targets initiative P.114	• Annual Report 2022 P.44
	Cross-Industry, Climate-Related Metric Categories (Revised on October 2021)		
	GHG Emissions: Absolute Scope 1, Scope 2, and Scope 3; emissions intensity	• GHG Emission Reduction Targets Approved under the Science Based Targets initiative PP.114-116	• CDP Climate Change 2022 (C6.1, 6.2, 6.3)
	Transition Risks: Amount and extent of assets or business activities vulnerable to transition risks	• Risks and Opportunities P111 • Scenario Analysis PP.112-113	• CDP Climate Change 2022 (C2.2, C2.3)
	Physical Risks: Amount and extent of assets or business activities vulnerable to physical risks	• Risks and Opportunities P111 • Scenario Analysis PP.112-113	• CDP Climate Change 2022 (C2.2, C2.3)
	Climate-Related Opportunities: Proportion of revenue, assets, or other business activities aligned with climate-related opportunities	• Scenario Analysis PP.112-113	• CDP Climate Change 2022 (C2.2, C2.4)
	Capital Deployment: Amount of capital expenditure, financing, or investment deployed toward climate-related risks and opportunities	• Investments to achieve carbon neutrality P.112 • Investment Scale P.112	• Annual Report 2022 P.42 • CDP Climate Change 2022 (C2.3, C2.4)
	Internal Carbon Prices: Price on each ton of GHG emissions used internally by an organization	• Investments to achieve carbon neutrality P.112	• Annual Report 2022 P.42 • CDP Climate Change 2022 (C4.3, C11.3)
	Remuneration: Proportion of executive management remuneration linked to climate considerations	• Executive Remuneration PP.63-65	• CDP Climate Change 2022 (C1.3a)
b) Scope 1, Scope 2, and if appropriate, Scope 3 greenhouse gas (GHG) emissions and related risk		• Energy Consumption and Greenhouse Gas Emissions (Scope1, 2, 3) PP.115-116 • Scenario Analysis PP.112-113	• Annual Report 2022 P.44
c) Targets used by the organization to manage climate-related risks and opportunities and performance against target		• Metrics and Targets (Risk) PP.114-116 • Metrics and Targets (Opportunities) P.117 • Specific initiatives for "Obligation" PP.118-119 • Specific initiatives for "Contribution" PP.120-121	• Annual Report 2022 PP.42-43

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