SUMİTOMO CHEMICAL

Sustainability Data Book 2020



Change and Innovation 3.0

For a Sustainable Future

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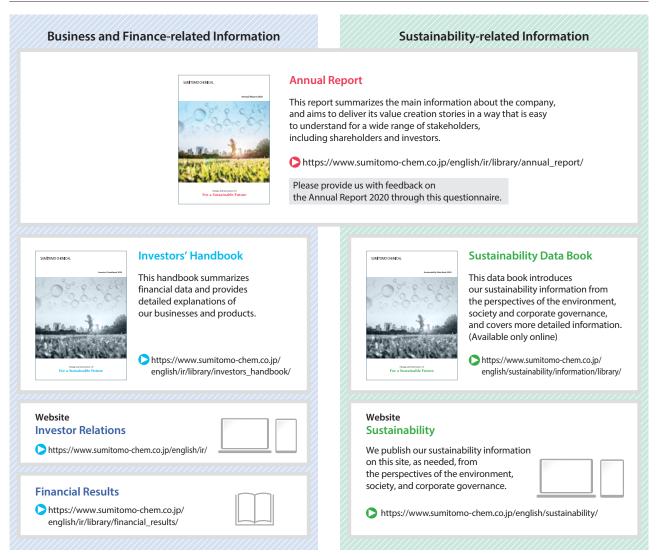
Editorial Policy

The Sustainability Data Book complements Sumitomo Chemical's new 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 208-210, "Calculation Standards for Environmental and Social Data Indicators," wherein a summary of data collection and calculation methods is presented.)

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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.

System of Information Disclosure



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.

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Sumitomo Chemical: Sumitomo Chemical Co., Ltd.

Sumitomo Chemical Group: Sumitomo Chemical and Group companies

► Environmental Data (pages 97–139)

Sumitomo Chemical's manufacturing sites and the production plants of major Group companies (21 companies in Japan and 20 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" (pages 99–101).

[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 15 companies sharing the Common Targets (Sumika-Kakoushi Co., Ltd.; Sumika Color Co., Ltd.; Sumika Color Co., Ltd.; Sumika Color Co., Ltd.; Sumika Color Co., Ltd.; Sumika Assembly Techno Co., Ltd.; Sumika Assembly Techno Co., Ltd.; SanTerra Co., Ltd.; Sumika Agrotech Co., Ltd.; Sumika Agrotech Co., Ltd.; Sumitomo Chemical Garden Products Inc.; Sumika Polycarbonate Limited; Nihon Medi-Physics Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.). In addition to the 15 companies listed above, the production plants of 6 information disclosure companies are included in the calculations of material flow on page 111 (Koei Chemical Co., Ltd.; Taoka Chemical Co., Ltd.; Tanaka Chemical Corporation; SCIOCS COMPANY LIMITED; Sumitomo Dainippon Pharma Co., Ltd.; SN Kasei Co., Ltd.) for a total of 21 companies.

[Overseas Group Companies]

Production plants of 20 overseas Group companies (Dongwoo Fine-Chem Co., Ltd.; The Polyolefin Company (Singapore) Pte. Ltd.; Sumika Technology Co., Ltd.; Sumika Electronic Materials (Wuxi) Co., Ltd.; Sumitomo Chemical Asia Pte Ltd; Sumika Huabei Electronic Materials (Beijing) Co., Ltd.; Sumitomo Chemical India Private Limited; Zhuhai Sumika Polymer Compounds Co., Ltd.; Sumika Polymer Compounds (Thailand) Co., Ltd.; Sumitomo Chemical Advanced Technologies LLC; Dalian Sumika Jingang Chemicals Co., Ltd.; Sumipex (Thailand) Co., Ltd.; Bara Chemical Co., Ltd.; SSLM Co., Ltd.; Sumika Electronic Materials (Ki'an) Co., Ltd.; Sumika Electronic Materials (Hefei) Co., Ltd.; Sumika Polymer Compounds Dalian Sumika Co., Ltd.)

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: April 1, 2019 March 31, 2020 (FY2019) (with specific exceptions outside this time frame)
- **Date of publication:** October 2020 (The previous issue was published in October 2019.

Next issue: Scheduled for publication in October 2021)

- Frequency of publication:
 Once annually
- Guidelines referred to when preparing this report:
 - The GRI Standards
 - 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)

The Sustainability Data Book 2020 has been prepared in accordance with "Core option" of the Sustainability Reporting Standard of the GRI.

P.212 GRI Standards Reference Table

For a Sustainable Future

The History of Sumitomo Chemical

The Sumitomo Group's history dates back to about 400 years ago, when the Sumitomo family started its business in Kyoto, venturing into a broad range of fields, including copper smelting and refining, trading, and mining. In 1690, they discovered the Besshi Copper Mines in Ehime Prefecture. Sumitomo Chemical got its start by manufacturing fertilizers from harmful gases emitted from the family's copper smelting operations, and has since been operating for over a century as one of the Sumitomo Group companies.

1913-1944

Building a Foundation as a Chemical Company

Origin

The Besshi Copper Mines opened a smelter in 1884 and started full operation in 1894. Expansion of this smelting and refining business resulted in an unexpected problem of air pollution: sulfur dioxide gas emitted from the smelting process caused damage to local agricultural production. Then the company decided to take a drastic measure to prevent the emission of the harmful gas—using sulfur dioxide to produce calcium superphosphate fertilizers.

To carry out this decision, the Sumitomo Fertilizer Works was established in 1913, becoming the origin of Sumitomo Chemical. This business not only helped prevent the air pollution from the emissions, but also contributed to the development of agriculture by supplying fertilizers to farmers at low cost.

The Sumitomo family has passed down from generation to generation the words "Jiri-Rita Koushi-Ichinyo," which means that its business must benefit society at large, not just its own interests. This business principle is embodied in the way Sumitomo addressed the problem of air pollution they faced, and its commitment to contributing to the development of a sustainable society through business, which that story demonstrates, is deeply embedded in Sumitomo Chemical's corporate philosophy.

Venturing from the Fertilizer Industry into the Chemical Industry

The business that the company thus started, however, consumed only a small amount of sulfur in its production of fertilizer, accounting for only a mere 6% of the ore output of the Besshi Copper Mines. In order to increase the consumption of sulfur, in the form of sulfuric acid, the company decided to enter the ammonium sulfate business, which led to efficient use of sulfuric acid. Along with this, it also started manufacturing ammonia, a raw material for ammonium sulfate. After that, by introducing new technologies from outside, the company further expanded its business scope to include other industrial chemicals, including nitric acid, methanol, and formalin. In this way, a foundation was built for the company to develop from a fertilizer manufacturer into a chemical company.



Scene of packaging fertilizers from the early days of the company



calcium superphosphate

1945-1974

Growing into a Diversified Chemical Company

For a Sustainable Future

Successively launching new businesses, Sumitomo Chemical grew to become a diversified chemical company.

Incorporating the Fine Chemicals Business

In working to expand from the fertilizer business to the industrial chemicals business, the company found it essential to enter the field of fine chemicals, to grow into a diversified chemical company that can create synergies with its varied businesses. In 1944, Sumitomo Chemical merged with the Japan Dyestuff Manufacturing Company, which was engaged in the dyestuff and pharmaceuticals businesses. This marked the start of Sumitomo Chemical's fine chemicals business, which continued to grow in the years that followed.

Entering the Agrochemicals Business

After World War II, Sumitomo Chemical entered the agrochemicals business, comprised of household insecticides and crop protection products. In 1953, the company launched Pynamin, a household insecticide. Meanwhile, Sumithion, a crop protection product developed in-house, became a blockbuster. Driven by the twin engines of a household insecticide and a blockbuster crop protection product with a high safety profile, the agrochemicals business grew to play an important role in the company's fine chemicals sector.

Growth of the Pharmaceuticals Business

The pharmaceuticals business expanded through alliances and mergers with foreign companies. With new drug candidates successively coming into its pipeline and the launch of new treatments for psychiatric and neurological diseases and cardiovascular diseases, as well as anti-inflammatory and analgesic agents, this business achieved solid growth.

Entering the Petrochemicals Business

In 1958, Sumitomo Chemical completed the construction of manufacturing plants for ethylene and polyethylene in Ehime, Japan, and entered into the petrochemicals business. This was followed by the construction of a larger-scale ethylene plant in Chiba, Japan, and the expansion of the business into a wide range of petrochemical derivatives. The petrochemicals business expanded on the back of the rapid growth of the Japanese economy.



Pynamin Plant



Ethylene Plant

1975-2004

Global Expansion across Business Sectors

For a Sustainable Future

For the period of about 30 years since the 1970s, Sumitomo Chemical actively pursued globalization across its business sectors in order to address changes in the world economy and social structures.

Construction of the Singapore Petrochemical Complex

In 1971, at the request of the Singapore government, the Singapore Petrochemical Project, Sumitomo Chemical's first overseas project for its petrochemicals business, was initiated. Establishing a petrochemical base in Singapore had an immense significance for the company, because in Singapore naphtha was available at competitive prices and the location would allow the company easy access to the Southeast Asian market, where enormous growth in demand was expected. While there were times when the future of this project became extremely uncertain, including the experience of the oil crisis, the Singapore Petrochemical Complex finally started full operation in 1984. These endeavors and achievements in Singapore brought the company valuable experience and knowhow, which supported its efforts toward full-fledged globalization in the years that followed.



Singapore Petrochemical Complex

Expansion of the Agrochemicals Business

In the agrochemicals business, Sumitomo Chemical successively launched new products from the 1990s to 2000s, including crop protection products and household insecticides, by leveraging its advanced R&D capabilities. The company also expanded its production capacity for methionine, a feed additive used to promote growth of poultry. In addition, in 1988, Valent U.S.A. was established in the United States, as part of the company's efforts to implement mergers and acquisitions in Japan and abroad and scale up its business.



Valent U.S.A., a development and sales base in the United Sates for agrochemicals

Establishing and Expanding the IT-related Chemicals Sector

In the latter half of the 1990s, digitalization began to advance rapidly, with the internet, PCs, and cell phones becoming widely used in society. In response to these societal changes, Sumitomo Chemical decided to define information technology-related businesses that handle components and materials for electronic devices as one of the pillars that support the future of Sumitomo Chemical, and established the IT-related Chemicals Sector. With a particular focus on the South Korean, Taiwanese and Chinese markets, the company set up local production companies and actively expanded the business. Backed by rapid expansion in the use of liquid crystal display panels, the business for display components, including polarizing films and color filters, achieved remarkable growth.



Dongwoo Semiconductor Chemicals (currently, Dongwoo Fine-Chem) (South Korea)

From 2005 Onwards

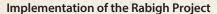
Deepening Global Management

For a Sustainable Future

Since the 2000s, global competition has further intensified. Under these circumstances, Sumitomo Chemical has been working to enhance its competitiveness to operate its business globally.

Separation of the Pharmaceuticals Business and the Creation of Sumitomo Dainippon Pharma Co., Ltd.

In 1984, Sumitomo Chemical and Inabata & Co., Ltd. spun off their pharmaceuticals manufacturing and sales businesses to form Sumitomo Pharmaceutical Co., Ltd., with the aim of improving efficiency and agility in manufacturing, sales and R&D and increasing competitiveness. Furthermore, in 2005, Sumitomo Pharmaceutical merged with Dainippon Pharmaceutical to establish Sumitomo Dainippon Pharma Co., Ltd., with the goals of strengthening their business base in Japan while also expanding their global reach. Sumitomo Dainippon Pharma has actively been promoting the sales of Latuda, an atypical antipsychotic agent developed in-house, in the US and the EU.



The Rabigh Project, a substantial project to construct a world-scale oil refinery and petrochemical complex in Saudi Arabia, got its start in 2004 when Sumitomo Chemical and Saudi Aramco signed a memorandum of understanding. Saudi Aramco selected Sumitomo Chemical as its partner for this project, highly valuing Sumitomo Chemical's outstanding technological capabilities, robust sales force in Asia, and the achievements of its petrochemical business in Singapore. In 2005, Rabigh Refining and Petrochemical Company (Petro Rabigh) was established as a joint venture between Saudi Aramco and Sumitomo Chemical, and started operations in 2009.



Joint press conference on the merger of Dainippon Pharmaceutical and Sumitomo Pharmaceutical



Petro Rabigh (Saudi Arabia)

Achieving Long-term Sustained Growth

Sumitomo Chemical remains committed to its principle of contributing to the development of a sustainable society through business, even after more than a century has passed since its foundation. The company will continue to work to resolve various issues facing people around the world and achieve long-term sustained growth.

Company History



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

Society

Introduction to Sumitomo Chemical

Each Sector Situation

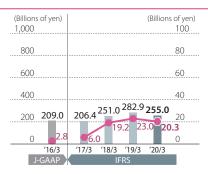
J-GAAP* Net Sales (left axis) — Operating Income (right axis) IFRS* Sales Revenue (left axis) —— Core Operating Income (right axis)

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

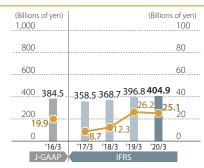




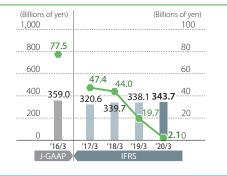
















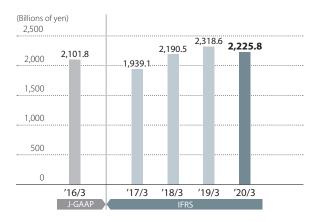
Financial Highlights

J-GAAP* Net Sales IFRS* Sales Revenue

¥2,225.8 billion



For a Sustainable Future



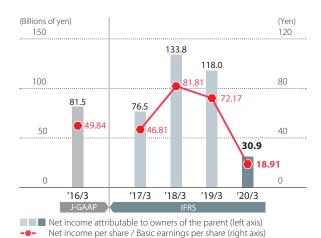
Shipments of pharmaceutical products increased, while product prices, such as prices for petrochemical products, decreased, affected by lower raw material costs. As a result, sales revenue declined by 92.8 billion yen from the previous fiscal year.

J-GAAP Net Income Attributable to Owners of the Parent / Net Income per Share

IFRS Net Income Attributable to Owners of the Parent / Basic Earnings per Share

¥30.9 billion (Net Income Attributable) to Owners of the Parent



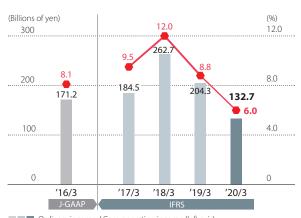


Impacted by the deterioration in core operating income, coupled with an increased income tax burden, net income attributable to owners of the parent fell compared with the previous fiscal year to 87.1 billion yen.

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

J-GAAP Ordinary Income / Ordinary Income to Net Sales IFRS Core Operating Income / Core Operating Income to Sales Revenue

vs. FY2018 $\pmb{¥132.7} \text{ billion (Core Operating Income)}$ -35.1%



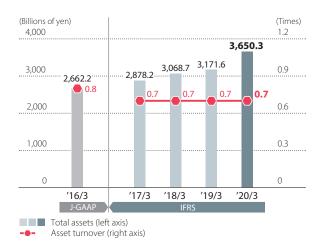
Ordinary income / Core operating income (left axis) Ordinary income to net sales / Core operating income to sales revenue (right axis)

Operating income declined by 71.6 billion yen from the previous fiscal year, affected by lower market prices of petrochemical products and methionine, decreased shipments of crop protection products overseas due to extreme weather, and upfront payment of expenses associated with the strategic alliance with Roivant in the Pharmaceuticals sector.

Total Assets / Asset Turnover

¥3,650.3 billion (Total Assets)





Total assets increased by 478.7 billion yen from the previous fiscal year due to the strategic alliance with Roivant and increases in intangible assets and goodwill after the acquisition of the South American business of Nufarm.

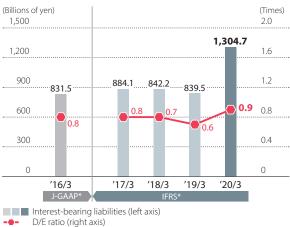
Society

Introduction to Sumitomo Chemical

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

Interest-bearing Liabilities / D/E Ratio



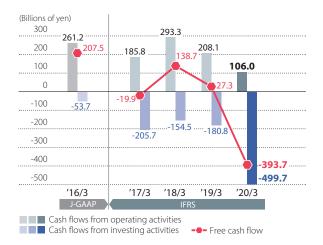


and publicly issuing hybrid bonds to pay for the strategic alliance

The balance of interest-bearing liabilities increased by 465.1 billion yen from the previous fiscal year as a result of taking a bridge loan

Cash Flows from Operating Activities / Cash Flows from Investing Activities / Free Cash Flow

vs. FY2018 **-¥393.7** billion (Free Cash Flow) -¥421.0 billion

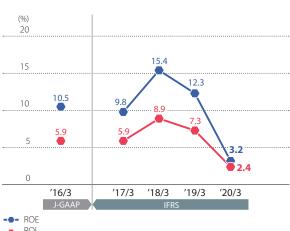


Cash flows from operating activities decreased by 102.1 billion yen from the previous fiscal year due to the deterioration in earnings. In addition, cash flows from investing activities increased by 318.8 billion yen after the payment for the strategic alliance with Roivant. As a result, free cash flow dropped 421 billion yen to an outflow of 393.7 billion yen.

ROE / ROI

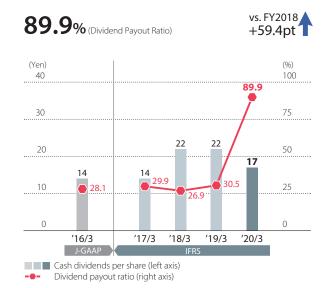
with Roivant.

vs. FY2018 -4.9pt **3.2**% (ROE) **2.4**% (ROI)



Due to the deterioration in earnings, both ROE and ROI declined from the previous fiscal year, lower than the respective target values of 10% and 7%.

Cash Dividends per Share / Dividend Payout Ratio



Annual dividend per share was 17 yen in fiscal 2019, thus, the payout ratio was 89.9%.

For a Sustainable Future





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- The Sumitomo Chemical Group's Contribution to the SDGs

Regarding each ESG information, Please refer to the following chapters



Governance: page 53



Environment: page 96



Society (Social Activities): page 140



We will Work to Achieve Sustained Growth for the Sumitomo Chemical Group and Help Build a Sustainable Society.

Based on the Sumitomo business principle that, "Our business must benefit society at large, not just our own interests," the Sumitomo Chemical Group has been creating social and economic value in an integrated manner. By making the best use of its strengths as a diversified chemical company, the Group will continue to strive to resolve material issues on the road to a sustainable society through business and innovation and enhance its corporate value.

President's Message

Addressing the COVID-19 Pandemic

We are committed to contributing to the containment of the coronavirus and the prevention of future pandemics by leveraging the extensive power of chemistry.

Since the outbreak of COVID-19 in the spring of 2020 and its ensuing spread around the world, Sumitomo Chemical has taken a range of measures, making it a top priority to ensure the safety and health of its employees all over the world. At the same time, we have made every effort to ensure stable operations to fulfill our responsibility to supply products necessary for society. For the time being, our operations have not been significantly affected.

I would like to talk about the impact of the pandemic on our performance later on. Meanwhile, what I have realized in this situation is that the chemical industry covers a broad scope of businesses that support the infrastructure of society, and that it can contribute to society in a wide range of fields through innovation. While chemical manufacturers have taken various measures to help prevent the spread of the infection, Sumitomo Chemical has also been making group-wide efforts to contribute to the containment of the pandemic. Manufacturing ingredients for pharmaceuticals for the treatment of COVID-19 is a case in point of our contribution through business. As an emergency and preferential measure, we have also supplied our plastic agriculture film for use as material for medical gowns. This revealed a new application of the product, which we could not have foreseen, and I believe it can be said that this is an example of innovation. In the area of research and development, our subsidiary Sumitomo Dainippon Pharma has joined an initiative to provide public access, free of charge, to a medical database called the COVID-19 Research Database, while also engaging in other various related efforts. Leveraging the extensive power of chemistry, we will continue to contribute to the containment of the coronavirus and the prevention of future pandemics.

■ Contribution to Containment of the Coronavirus Pandemic

Supplying active ingredients for Avigan (favipiravir) and remdesivir	Supplying household antiviral disinfectants
Supplying polyethylene film for medical gowns	Supplying antiviral agents for industrial use
Joined COVID-19 research database	Joint research for a universal influenza vaccine
Provided funds for NanoScent, a startup developing diagnostic sensors for COVID-19	Developing antiviral agents derived from natural plant extracts
Donated medical protective gear (incl. N95 masks and gowns)	Donated to the Kitasato Institute's Project for COVID-19

Contributing to Containment of the Coronavirus Pandemic by Leveraging the Extensive Power of Chemistry

President's Message

Progress on the Current Corporate Business Plan

Despite the increasingly severe business environment, we will work to create the distinctive value that only a diversified chemical company like us can make.

For a Sustainable Future

I would now like to talk about our performance for fiscal 2019. In the Petrochemicals & Plastics Sector, selling prices for our products declined, affected by a slowdown of the world economy due to the prolonging of the US-China trade conflict. In the Health & Crop Sciences Sector, shipments of crop protection products decreased as a result of extreme weather in North America, while methionine prices fell. In the Pharmaceuticals Sector, shipments of Latuda, an atypical antipsychotic agent, increased in the North American market, but upfront expenses arising from the strategic alliance with Roivant placed a heavy burden on the Sector's performance. Due to these factors and the effects of the coronavirus pandemic, our consolidated core operating income for fiscal 2019 significantly decreased from the level of the previous fiscal year.

For fiscal 2020, shipments of crop protection products are expected to recover in overseas markets. We anticipate, however, that there will be considerable effects from lower prices for petrochemical products and upfront expenses in new drug development in the Pharmaceuticals Sector, while also foreseeing a decrease in demand for products in automotive and display-related areas due to the coronavirus pandemic. All in all, we cannot expect a rapid recovery in our performance.

The business environment surrounding us is thus becoming increasingly challenging, but we are determined to push forward our efforts based on the basic policy set out in the current Corporate Business Plan. In order to accelerate the development of next-generation businesses, we have been stepping up efforts to establish our innovation ecosystem—a system to constantly generate innovation. We have launched a strategic partnership with Conagen in synthetic biology and formed an alliance with NanoScent, a start-up developing scent detection devices. We have also started collaborations with academia, including joint research with Kyoto University on solid-type batteries.

As for the improvement of productivity through digital innovation, we have implemented new initiatives. On the manufacturing side, all manufacturing departments at the Ehime Works and the Oita Works have introduced electronic journals. On the research and development side, we are promoting the use of material informatics (MI) for material design.

In addition to these efforts, for fiscal 2020, we will focus on the improvement of our business portfolio, giving this a higher priority. I believe that our diversified business portfolio is providing us with a certain degree of immunity to the COVID-19-induced recession. To establish more robust foundations for our business, however, we first need to raise the earning power of each business unit. Building on that, we would like to continue to generate synergy among our various businesses and technologies and create a "conglomerate premium," distinctive value that only a diversified chemical company like us can make. Meanwhile, we have made several large-scale strategic acquisitions. We need to carry through post-merger integration (PMI) to realize the full value of these acquisitions as soon as possible.

To Achieve Sustained Growth

We will strive to take our performance on the path to recovery as soon as we can and build back to achieve sustained growth.

For fiscal 2021, the final year of the current Corporate Business Plan period, we have been aiming to achieve a consolidated core operating income of 280 billion yen. Given that there have very recently been positive factors such as rebounding methionine prices, we could have reached this target, depending on conditions in the petrochemicals market—if it were not for the upfront expenses due to the large-scale acquisition in the Pharmaceuticals Sector and the effects of the COVID-19-induced recession. Yet, unfortunately, the business environment has turned out to be dramatically different from our assumptions, so that we expect the achievement of this target to be extremely difficult. We will strive to take our performance on the path to recovery as soon as we can and build back to achieve this target level of earnings by fiscal 2024, the final year of the next Corporate Business Plan period.

I would like to talk about our three growth drivers to meet this target. In the Health & Crop Sciences Sector, we have established a direct sales network in the South American market, including Brazil, the world's largest and fastest growing market for crop protection products. This has been achieved through the acquisition of Nufarm's South American businesses, a deal completed this year. By fully leveraging this network, we will be able to massively expand sales of INDIFLIN™, a promising new fungicide for soybeans, scheduled to be launched in Brazil in 2021. On the back of a growth of the crop protection business primarily in South America and India, we expect to achieve a core operating income of 80 billion yen by the middle of the 2020s.

□ President's Message

President's Message

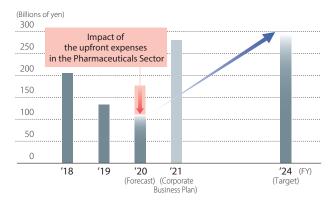


In the Pharmaceuticals Sector, it had been a major challenge for years to develop new products that could take over Latuda's position as our flagship product after the antipsychotic agent's loss of exclusivity. As a result of the strategic alliance with Roivant launched in December 2019, we have obtained new drug candidates that have the potential to become blockbusters, such as relugolix for the treatment of uterine fibroids and other diseases and vibegron for overactive bladder. The development of these drug candidates is progressing well toward early launches. Sales of these new products are expected to show strong growth from fiscal 2023 onwards. As a result, we expect the sector's core operating income to get back on a growth path and exceed 100 billion yen beyond fiscal 2024 to 2025.

In the IT-related Chemicals Sector and the Energy & Functional Materials Sector, we will work to expand sales of highly functional products—including battery components, super engineering plastics and semiconductor materials, as well as components for flexible displays—against the backdrop of the growing electric vehicle market and increasing demand for 5G communications. We aim to achieve a combined core operating income of 80 billion yen, across both sectors. Across these three growth driver areas, we will work to achieve a core operating income of 260 billion yen in total by the middle of the 2020s. It would be ideal if the Petrochemicals & Plastics Sector also contributes as a cash cow, but we would like to establish an earnings structure that does not excessively depend on a sector that has relatively high volatility.

Meanwhile, we will also work on the improvement of our financial strength, which has weakened as we have made largescale strategic investments. Through more selective investment, divestment of assets and improvement of the cash conversion cycle, we would like to bring our D/E ratio back to the target of 0.7 by fiscal 2024.

■ Forecast for Core Operating Income



President's Message

Our Sustainability Efforts

We continue to be committed to creating both economic and social value and achieving sustained growth for our company.

For a Sustainable Future

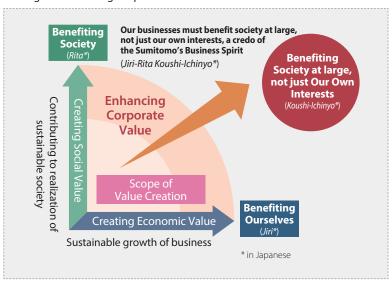
We at the Sumitomo Chemical Group are committed to achieving sustained growth by contributing to developing a sustainable society through our business and creating both economic and social value. In order to enhance and accelerate our efforts to this end, we have launched various new measures.

In March 2019, we identified our material issues for sustainably creating value, such as reducing environmental impact and contributing to the healthcare field. We also determined the material issues that serve as the foundation for continuing our business, including safety, respect for human rights, and compliance. In November 2019, we set key performance indicators (KPIs) for our material issues. In establishing KPIs, we sought opinions from external experts and deliberated in our Sustainability Promotion Committee. For our material issues for social value creation, including the issues of climate change, energy, food, and infection control, we set up KPIs by referring to the targets laid out in the United Nations Sustainable Development Goals (SDGs), to show our commitment to helping resolve the vital issues facing the international community. By using these KPIs, we will not only actively communicate the progress of our measures but will also promote collaboration with our stakeholders and accelerate our efforts to develop and provide new solutions to social issues.

Among our efforts toward developing a sustainable society, we are particularly focused on addressing climate change issues. We have set up our Science Based Targets, goals for the reduction of greenhouse gas (GHG) emissions, and are carrying out various measures to achieve these targets. We have also been undertaking our Sumika Sustainable Solutions (SSS) project to promote the deployment of our products and technologies that contribute to the reduction of environmental impact. In addition, we have launched a new cross-sector initiative to conduct scenario analyses, identify climate-change-related risks and opportunities for the Group, and plan and implement new measures to resolve problems facing us.

In April 2020, we established a new organization within our Petrochemicals Research Laboratory, a team dedicated to developing technologies to reduce environmental impact by leveraging our core technologies related to catalysts and chemical process design that have been cultivated in the Petrochemicals & Plastics Sector. Under this organization, we have put together our related projects, which were each pursued in several separate laboratories of ours, while also scaling up the team to a group of about 30 researchers. We expect these measures to help dramatically accelerate the progress of the research and development projects. They include our projects toward building a circular system for plastics—the development of chemical recycling technologies in collaboration with other companies and through alliances with academia. These efforts aim to chemically decompose municipal waste and plastic waste, and reuse them as raw materials for plastics and petrochemical products. If these chemical recycling technologies are put to commercial use, we are convinced that they will help cut back on the use of fossil fuels, while also contributing to reducing the amount of plastic waste as well as GHG emissions from the incineration of plastic waste.

Image of Enhancing Corporate Value



President's Message

To Shareholders and Investors

We will continue to work to enhance our corporate value so that you can be proud and pleased to be our shareholders.

For a Sustainable Future

I recognize shareholders and investors as our essential stakeholders. As I run and manage our business day-to-day, I always bear you in mind. Regarding shareholder return, we have made it a policy to maintain stable dividend payments, giving due consideration to our business performance and the dividend payout ratio for each fiscal year, the level of retained earnings necessary for future growth, and other relevant factors. Over the medium to long term, we aim to achieve a dividend payout ratio of around 30%.

For fiscal 2019, since we posted a significant decline in profits, we have unfortunately declared an annual dividend of 17 yen per share, a decrease of 5 yen from the previous fiscal year's dividend of 22 yen per share.

What we strive to be is a Sumitomo Chemical that continues to put into action the Sumitomo business principle that, "Our business must benefit society at large, not just our own interests," and thereby create both economic and social value. As the role chemistry should play is becoming even more important, we will leverage the power of chemistry, work to resolve material issues on the road to a sustainable society through innovation and our businesses, and strive to enhance our corporate value. By doing so, we aim to become a company that every one of you can be proud of and pleased with as a shareholder.

Your continued understanding and support would be very much appreciated.



The Sumitomo Chemical Group's Corporate Philosophy

For a Sustainable Future

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 Group's Corporate Philosophy consists of four parts: Sumitomo's business principles; 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



Sumitomo's business principles are 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 Sumitomo's business principle 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.

Sumitomo's business principles

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 Group's vision, mission and values based on Sumitomo's business principles, 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.

Environment

☐ The Sumitomo Chemical Group's Corporate Philosophy

The Sumitomo Chemical Group'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 our 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.

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.

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.

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.

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.

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.

What Sumitomo Chemical Group Strives to Be

Material Issues to Be Addressed as Management Priorities

P.44 Participation in Initiatives

Communication with Stakeholders

P.35 Promoting Sustainability

Sustainability Promotion P.34 System

[&]quot; *"Jiri-Rita Koushi-Ichinyo."* while not expressly stated, is also regarded as an embodiment of the Business Principles in that the Company seeks to benefit not only its own business, but also both the nation and society

☐ The Sumitomo Chemical Group's Corporate Philosophy

The Sumitomo Chemical Group'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.

For a Sustainable Future

- 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.



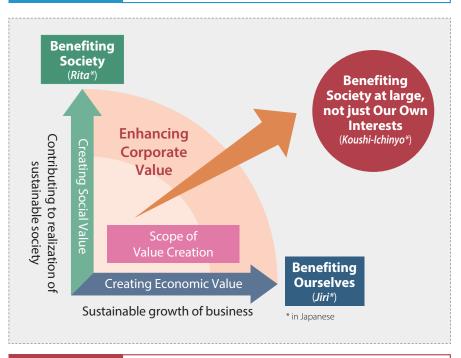
What Sumitomo Chemical Group Strives to Be

For a Sustainable Future

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.

■ Image of Enhancing Corporate Value

Achieve sustained growth for the Sumitomo Chemical Group and build What We Strive to Be 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.

Material Issues to Be Addressed as Management Priorities

For a Sustainable Future

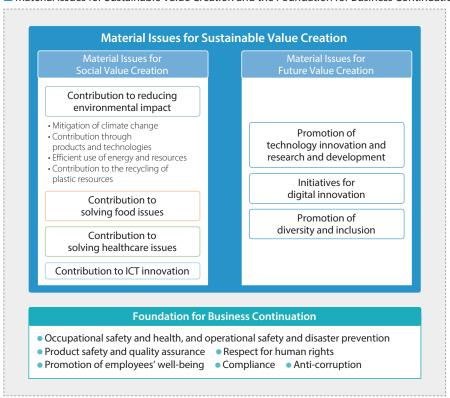
In its Business Philosophy, Sumitomo Chemical affirms its commitment to creating new value by building on innovation, contributing to society through its business activities, and developing an invigorating corporate culture and continuing to be a company that society can trust. Based on this three-part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

First, we have 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. We have classified four items—reduction of environmental impact, food issues, healthcare, and ICT innovation—under material issues for social value creation, while categorizing technology innovation and research and development, digital innovation, and diversity and inclusion as material issues for future value creation.

Furthermore, regarding the items that serve as the foundation for continuing our business—occupational safety and health, operational safety and disaster prevention, product safety and quality assurance, respect for human rights, promotion of employees' well-being, compliance, and anti-corruption—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. With the use of KPIs, we 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 item 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



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.174 Occupational Safety and Health / Industrial Safety and Disaster Prevention

Product safety and quality assurance
Product Safety and quality assurance
Product Safety / Quality Assurance
Promotion of employees' well-being
P.171 Healthcare

Anti-corruption
P.77 Anti-corruption

Environment

Material Issues to Be Addressed as Management Priorities

For a Sustainable Future

Process for Identifying 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 have a belief that resolving issues through our business and creating both social and economic value is as important as continuing our business to achieve it. Based on this view, we have defined the material issues identified as related to the former as the material issues for sustainable value creation, and the material issues for the latter as the foundation for business continuity.

Process for Identifying Material Issues



P.31 Digest of Expert Opinion and Advice

Key Performance Indicator (KPI)

For a Sustainable Future

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

Material Issues		KPIs	SDGs Targets		
Material issue	es for social value creation				
Reducing Contribut technolog tal impact	Mitigation of climate change	Amount of Group's GHG emissions (Scope 1+2)	13.3		
		Contribution to reducing GHG emissions throughout the product life cycle (Battery-related materials)	13.3		
	Contribution through products and technologies	Sales revenue of Sumika Sustainable Solutions*1 designated products			
	Efficient use of energy and resources Contribution to the recycling of plastic resources*2	Unit energy consumption	7.3		
		Number of petrochemical-related technology licenses	9.4		
		Various initiatives are underway, and KPIs are to be determined			
Food issues		Effect of increasing production of animal protein including poultry	2.1		
		Agricultural land area where agrosolution products are used	2.4		
Healthcare		Number of people protected by products for the control of tropical infectious diseases	3.3		
		KPIs are to be determined			
ICT innovation	n	Number of mobile devices using polarizing films	8.2		
Material issues for future value creation (creating social value and economic value)					
	romotion of technology innovation and research and development Patent asset size				
Initiatives for digital innovation Digital maturity					
Promotion of diversity and inclusion Each group company sets its own KPI in light of the en		Each group company sets its own KPI in light of the environment facing each			

^{*1} Our Group's products and technologies that help to address global warming, reduce environmental impact and promote effective use of resources.

Specifications of KPIs

We have set key performance indicators (KPIs) for initiatives related to our material issues for sustainable value creation, after the deliberation by the Sustainability Promotion Committee and considering opinions of outside experts. Regarding our material issues for social value creation, we have set KPIs by referring to the 169 targets of the 17 SDGs* to indicate specifically how we aim to contribute to resolving each issue. As for our material issues for future value creation, KPIs related to technology innovation and research and development and to digital innovation are set on a group-wide basis, while those related to diversity and inclusion are determined by each Group company in view of their respective circumstances, which vary by country or region. With the use of KPIs, we will manage the progress of our efforts, while also promoting dialogues with stakeholders in and outside the company.

^{*2} Sumitomo Chemical Group Basic Policy Towards a Circular System for Plastics

^{*} Each of the 17 SDGs has specified targets. For example: "13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning."

Key Performance Indicator (KPI)

KPIs for material issues for social value creation

Material Issue Contribution to reducing environmental impact: Mitigation of climate change

For a Sustainable Future

KPI

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

Reducing GHG emissions through our group operations

◆ In 2018, Sumitomo Chemical obtained the SBT approval, becoming the first diversified chemical company to receive the approval.

Targets (vs. FY2013)

Reduce by **30**% by FY2030

Initiatives to achieve the commitment

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

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



■ GHG Emissions and Reduction Targets



Material Issue Contribution to reducing environmental impact: Mitigation of climate change

KPI

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

- 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

Kyoto University and Sumitomo Chemical have opened an industryacademia joint course to spur the commercialization of solid-state batteries which draw attention as a possible next-generation secondary battery. We pursue applications in a wide range of areas, such as EVs, which require high energy density and high output performance from the perspectives of cruising distance and charging time.

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



Eco-friendly vehicles manufactured in 2019 incorporating SCC's battery materials (Separator, Cathode, Almina) will help reduce the GHG emission volume* over the next 10 years by:

FY2019 actual results

17.2 million tons-CO₂

* Based on 2020-made vehicles in "cLCA evaluation on next generation vehicles" by the Japan Chemical Industry Association.

Key Performance Indicator (KPI)

Contribution to reducing environmental impact: Products and technologies

For a Sustainable Future

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



- 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

Targets

Sales revenue of **560** billion yen by FY2021

Initiatives to achieve the commitment

- Designated 54 products and technologies as of August 2020
- 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.

Contribution to reducing environmental impact: Efficient use of energy and resources

KPI

Unit energy consumption

Continuous improvement of unit energy consumption by rationalization

Contributing to the achievement of SDG 7.3

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



Targets (FY2018 level as baseline)

Will achieve improvement of **3**% or more per each MRP 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

SCC Group Energy Consumption Index



Key Performance Indicator (KPI)

Material Issue Contribution to reducing environmental impact: Efficient use of energy and resources

For a Sustainable Future

KPI

Number of petrochemical-related 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:
- Highly energy efficient, enables recycling of byproducts as raw materials.
- · PO-only:

No co-products, high yield and energy efficient, stable operation. First in the world to succeed in recycling cumene on a commercial scale.

Toward the achievement of SDG 9.4

We will strive to develop technologies for use in a wide range of fields, such as CO2 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

In the Petrochemicals Research Laboratory, we have established a new research group dedicated to developing technologies that help reduce environmental impact. The group's development projects include:

- (1) Technology for manufacturing polyolefin by using waste-derived ethanol as a raw material
- (2) Chemical recycling technology for waste plastics
- (3) Technology for manufacturing chemicals by using CO₂
- (4) Adoption of innovative energy-saving technologies for chemical manufacturing processes



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

Material Issue Contribution to solving food issues

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



Feed additives

Nutrition that is added to feed for such livestock as poultry in order to increase the production of animal protein and contribute to solving food issues worldwide on an ongoing basis

We provide methionine, an essential amino acid, and started operation of a new low environmental impact, high-efficiency plant with an annual capacity of 100 thousand tons in October 2018.

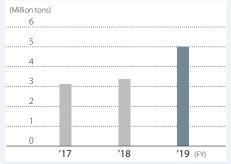
Toward the achievement of SDG 2.1

We will continue to contribute to the safe and secure supply of food by providing high-quality products, taking full advantage of our sophisticated safety and environmental management systems backed by our expertise in a diverse range of chemical manufacturing operations.

Highlights of sustainability efforts

We continue a stable production of feed additive methionine at a newly-built plant with an annual capacity of 100 thousand tons, a facility that has employed advanced environmental and safety measures and has significantly reduced a loss of raw materials and utilities

Increased Production of Animal Protein



Note: Calculation method undisclosed (confidential)

Key Performance Indicator (KPI)

Material Issue Contribution to solving food issues

For a Sustainable Future

KPI

Agricultural land area where agrosolution products are used

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

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

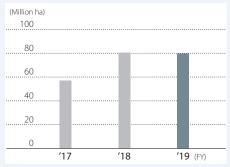
Valent BioSciences, a group company supplying biorationals—a category of agrosolution products—has issued its Sustainability Report 2018/2019.

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



Farmland Utilizing SCC Agrosolution Products



Note: Calculation method undisclosed (confidential)

Material Issue

Contribution to solving healthcare

KPI

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 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.

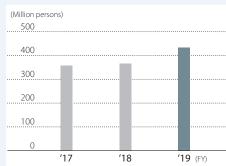
Toward the achievement of SDG 3.3

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)

Contribution to ICT innovation Material Issue

KPI

Number of mobile devices using polarizing films

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

Advancing technological innovation for

For a Sustainable Future

tivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labourintensive sectors

Achieve higher levels of economic produc-

the achievement of SDG 8.2

Contributing to



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 censors, 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 contribute to the dissemination of high-end mobile devices, which are essential to supporting diverse workstyles such as telework and telecommunications and improving productivity:

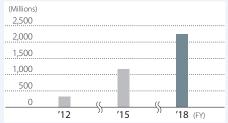
- (1) Polarizing films for OLEDs (organic EL)
- (2) Coated-type polarizing films suitable for foldable devices
- (3) Polarizing films for 5G-compatible mobile devices

Mobile devices that use our polarizing films

Cumulative total for the period from FY2007 to date (as of the end of FY2019)

2.7 billion

■ Transition of Cumulative Total for the Period from FY2007



Note: Calculation method undisclosed (confidential)

KPIs for material issues for future value creation (creating social value and economic value)

Material Issue Promotion of technology innovation and research and development

KPI

Patent asset size

Mitigation of climate change by using battery materials

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 in four priority areas

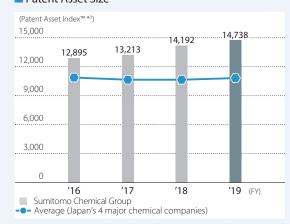
We will thoroughly implement the use of Al/Ml*1 in our R&D labs, and accelerate the generation of new businesses in four priority areas through collaboration with academia and startups.

Trends in our patent asset size

Our patent asset size is growing, because patent applications and registrations have increased as we have stepped up R&D and patenting efforts in recent years. We will continue to enhance and strengthen our patent

*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)

Initiatives for digital innovation Material Issue

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.

For a Sustainable Future

KPI

FY2019 (the initiative's first year) digital maturity level

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

2.6 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 tech- nologies 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. 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

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

Looking Ahead

We will continue focusing on carrying out DX promotion activities for the entire Group and on securing and training relevant human resources.

For specific initiatives, see below. pages 66-67 of Annual Report 2020



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



Material Issue

Promotion of diversity and inclusion

We have established the Basic Principles on the Promotion of Diversity and Inclusion as our group-wide guiding philosophy related to the promotion of diversity and inclusion. Based on these principles, each of about 90 major Group companies will determine their own KPIs in view of their respective circumstances.



Sumitomo Chemical (non-consolidated)

Percentage of female employees in positions equivalent to manager or above

Target Over **10**% (by 2022)

Actual: 5.8% (as of April 2020)

Percentage of male employees taking childcare leave

Target Over **70**% (by 2022)

Actual: 44.7% (FY2019)

Progress of Group companies in Japan and overseas in setting KPIs

About 70 Group companies have set KPIs, many of which are related to the active promotion and empowerment of women, work-life balance, and the promotion of diversity of nationality and race.

^{*} DX stands for Digital Transformation

Key Performance Indicator (KPI)

Digest of Expert Opinion and Advice

Between July and August 2019, we met with outside experts to discuss the material issues that we will address as management priorities and our approach to the setting of KPIs for those issues and the appropriateness of our method.

Mr. Hidemi Tomita, Director, Lloyd's Register Japan K.K.

Sumitomo Chemical has a basic policy of continually creating both economic and social value based on Sumitomo's business principles, which are represented by the words "Jiri-Rita Koushi-Ichinyo (Our businesses must benefit society at large, not just our own interests)." Under this policy, the Company has classified their material issues into "Material Issues for Social Value Creation" and "Material Issues for Value Creation in the Future," as well as the "Foundations for Business Continuity," which underpins their efforts to address both of these sets of material issues.

For a Sustainable Future

It is notable that they have clearly defined what materiality means to the Company. Meanwhile, materiality generally refers to important "issues," but the Company's materiality is primarily concerned with strategies and initiatives. Accordingly, the Company needs to first specify "issues" that they consider important and then tell its story about strategies for resolving those issues. In addition, it would be preferable to discuss not only business opportunities but also risks.

With regard to KPIs, it is important to show outcomes of each initiative, or social value created by each initiative, not just results of initiatives. Let's take the Sumika Sustainable Solutions as an example. It would be desirable to provide both KPIs to demonstrate results—such as net sales—as well as KPIs to describe outcomes achieved by these products for the benefit of society—such as GHG emissions reduction and improved agricultural productivity.

Enhancing social value is not easy, but it is important that the Company will make sure efforts are aligned with its basic policy of creating both economic and social value and will work to build its unique cohesive story.



Mr. Hidemi Tomita Director Lloyd's Register Japan K.K.

Ms. Yukari Takamura, Professor, the Institute for Future Initiatives, the University of Tokyo

KPIs should be such that by using them you can tell a story about timelines of your efforts and what kind of society you envision for a target year—just as is the case with Sumitomo Chemical's KPIs related to the mitigation of climate change. It is necessary to make that kind of story for other KPIs as well and communicate them to stakeholders. In addition, with respect to GHG emissions reduction, how the Company should demonstrate its Scope 3 emissions reduction efforts is also an important issue.

In the area of climate change, I recommend that the Company more actively promote its products that contribute to GHG emissions reduction and the adaptation to climate change. For those products designated as Sumika Sustainable Solutions, in particular, it would be advisable to step up promotion and public relations efforts so that more people will get to know them. This could be an initiative that represents Sumitomo Chemical's originality.

Many companies are finding it difficult to set KPIs and promote initiatives to contribute to a circular system for plastics. That is because plastic products are being used in all aspects of daily life and also because plastic collection and recycling cannot be done only by an individual company.

For other industries, which use plastics, it is difficult to resolve this issue unless alternative materials become available, so these industries are holding high expectations about the chemical industry. I strongly hope that Sumitomo Chemical will show its path to building a circular system for plastics, including medium- to long-term plans and solutions and relevant KPIs.



Ms. Yukari Takamura Professor The Institute for Future Initiatives The University of Tokyo

Key Performance Indicator (KPI)

Ms. Kaori Kuroda, Executive Director, CSO Network Japan

It is important to work to resolve social issues through excellent products and technologies and to measure progress by setting KPIs. However, there are also issues that cannot be resolved with products and technologies alone. A case in point is Olyset™ Net. This product does not just help control malaria. I have learned that local production of the nets is contributing to creating jobs, to improving work environment and thereby promoting women's active participation in society, to spurring the development of local economy, and to alleviating poverty. In this way, it is essential to include a wide range of initiatives, including building relationships with local communities, in the narrative of your efforts and carry them out.

For a Sustainable Future

Second, it is appropriate that Sumitomo Chemical has defined the promotion of diversity and inclusion as a Material Issue for Value Creation in the Future and that each Group company has set KPIs for this issue in view of culture and social situations that vary depending on the country or region where it operates. Regarding respect for human rights, while it is commendable that the Company has established its basic policy, this issue is classified as one of the Foundations for Business Continuity. It should be noted that respect for human rights can also lead to enhancing corporate value. I suggest that with this understanding in mind, the Company take stock of the initiatives it has implemented to date and communicate them, while working to enhance its efforts.

I offer high praise for the fact that in its material issues, the Company has included those material issues for which it has not implemented sufficient measures yet. I look forward to Sumitomo Chemical's efforts and progress going forward.



Ms. Kaori Kuroda Executive Director* CSO Network Japan

^{*} At the time of the interview

Corporate Business Plan (FY2019 – FY2021) and Sustainability

The Corporate Business Plan (FY2019-FY2021), which started in FY2019, has "Change and Innovation 3.0: For a Sustainable Future" as a slogan. This represents the Group's commitment to increasing productivity exponentially through digital innovation in view of the advent of "Society 5.0 (ultra-smart society)," while at the same time contributing to creating a sustainable society by resolving issues facing society.

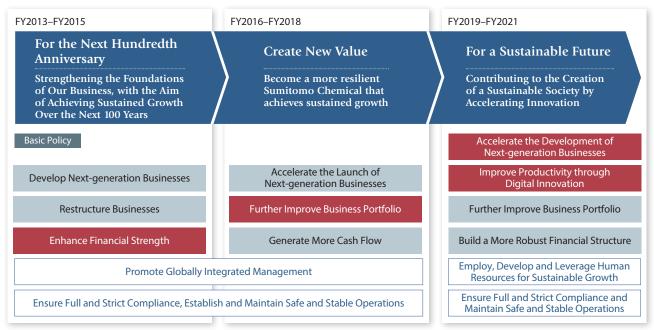
With regard to our efforts to accelerate the development of next-generation businesses, we have set out four focus areas: healthcare, reducing environmental impact, food, and ICT. These four areas correspond with the four items of our "Material Issues for Social Value Creation," which are included in our material issues for sustainable value creation.

We at the Sumitomo Chemical Group will continue to carry out our initiatives under the Corporate Business Plan, create both economic and social value, and achieve sustained growth for the Group while also helping to build a sustainable society.

P.24 Key Performance Indicator (KPI) P.22 Material Issues to Be Addressed as Management Priorities

For a Sustainable Future

■ Transition of the Corporate Business Plan "Change and Innovation" from FY2013



Note: The current Corporate Business Plan is the first that positioned "contributing to the creation of a sustainable society" as a major pillar.

■ The Four Priority Areas for Accelerating the Development of Next-generation Businesses (From the basic policy of the FY2019–FY2021 Corporate Business Plan)



Sustainability Promotion System

Promotion System

In April 2018, Sumitomo Chemical enhanced the CSR Promotion Committee, thereby creating the Sustainability Promotion Committee.

■ 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, Procurement Department, and Logistics Department
- *3 The Responsible Care Committee, Human Rights Promotion Committee, etc.

(Purpose)

- 1 Oversee the Group's sustainability promotion activities
- 2 Comprehensively verify contributions to sustainability
- 3 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.

1 SOLUTION: Providing advice to each business sector and each Group company on contributing to the sustainable growth of society through business operations

2 INITIATIVE: Providing advice to various committees through participation in international initiatives

3 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 from each business sector, the executive officers from the corporate departments and the presidents of four overseas regional headquarters.

(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, Procurement Department, and Logistics Department.

(Fiscal 2019 Results)

The Sustainability Promotion Committee meeting was convened twice, holding active discussions to set key performance indicators (KPIs) for the material issues for sustainable value creation, while sharing information on international trends related to sustainability and discussing major sustainability issues for the Group.

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.

For a Sustainable Future



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 the Business Philosophy in the framework of our corporate philosophy to demonstrate the Group's commitment to addressing the promotion of sustainability as a management priority. In addition, under our Corporate Business Plan, which was launched in April 2019, we have defined contributing to building a sustainable society as a major pillar of the plan.

In this year, the president of Sumitomo Chemical sent a letter to all Group companies' presidents to communicate the Group's new sustainability initiatives, including key performance indicators (KPIs) for our initiatives to address the Group's material issues, the Group Policy for the Promotion of Diversity and Inclusion, the Group Basic Policy Towards a Circular System for Plastics, and new measures for promoting respect for human rights. In his letter, the president also called on all officers and employees to share the Group's corporate values and work together to carry out our sustainability efforts. Meanwhile, the Senior Managing Executive Officer in charge of sustainability held multiple briefing sessions at Sumitomo Chemical's operation sites and 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.

FY2019 Sustainability Efforts Briefing Session

Location	Sessions	Participants
Sumitomo Chemical' sites	16	Managers*
Group companies in Japan	4	Sustainability managers of each company
Group companies overseas	8	Presidents of regional headquarters Sustainability managers of regional headquarters Sustainability managers of each company

^{*}Those employees who have been seconded in Japan participated in any of the briefing sessions held at Sumitomo



Promoting Sustainability

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

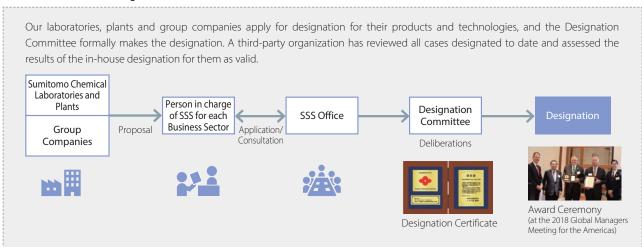
For a Sustainable Future

Sumitomo Chemical recognizes that climate change problems present the Group with business opportunities, such as an increase in demand for products that help solve issues related to the environment and climate change by, for example, reducing GHG emissions. To seize these kinds of opportunities, we are promoting an initiative to designate those of our 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).

In addition, we set a KPI of GHG emission reduction contributions through the life cycle and sales revenues of SSS-designated products and are monitoring progress. Furthermore, one of the evaluation criteria for the employee merit award program is contributions to social value creation, including acquisition of SSS designation.

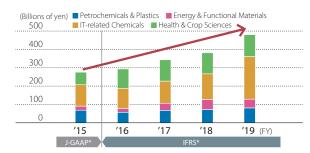
Going forward, the Company will continue solving issues in order to build a sustainable society by devoting its attention to promoting the development and widespread use of SSS-designated products and technologies.

■ The Process of SSS Designation



In fiscal 2019, the fifth year of this initiative, Sumitomo Chemical newly designated six of its products and technologies as Sumika Sustainable Solutions (SSS). With the addition of these six products and technologies, the total number of SSS-designated products and technologies is now 54, amounting to approximately 480 billion yen in terms of sales revenue in fiscal 2019. New designations were given to a high performance insulating coating material mainly used for automotive batteries, transfer technology used in the manufacture of flexible touch sensors, polypropylene materials for aluminum metallization film which can help decrease food loss as a food packaging material, and agricultural irrigation tubes that enable efficient use of water. These products and technologies are available from the Sumitomo Chemical Group. The Company is now aiming to achieve sales revenues of 560 billion yen from SSS-designated products and technologies by fiscal 2021, the final year of the current Corporate Business Plan.

■ KPI: Sales Revenue of SSS-designated Products







□ Promoting Sustainability

Promoting Sustainability

Designation Requirements by Category

Category	Designation Requirements
	Contributing to reducing GHG emissions
Addressing Climate	2 Products, components, and materials used for the creation of new energy sources
Change	3 Using biomass-derived raw materials
	Contributing to adapting to the impacts of climate change
Reducing	Contributing to reducing waste and toxic substances, and contributing to reducing environmental impact
Environmental Impact	Contributing to reducing environmental impact in food production
Effective Use of	7 Contributing to recycling and energy-saving
Resources	3 Contributing to the efficient use of water
Others	Other contributions to building a sustainable society

For a Sustainable Future

■ Designation Requirements by Category/Actual Environmental Contribution (FY2019)



Addressing Climate Change

Contributed to reducing 62 million tons of GHG emissions (CO2 equivalent; a projection for 2020) through the life cycles of the designated products and technologies in this category

Note: Calculated with reference to "New Perspective on Reducing Greenhouse Gases" by the Japan Chemical Industry Association and "Global Value Chain" by the Japan Business Federation.

Reducing Environmental Impact

Contributed to reducing the use of organic solvents by 100 thousand tons per year by using the designated products and technologies in this category

Effective Use of Resources

Contributed to reducing the use of water by 14.2 million tons per year by using the designated products and technologies in this category

In May 2020, Sumitomo Chemical was awarded the Grand Prize in the 52nd Annual JCIA Technology Awards 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." This technology has been designated a Sumika Sustainable Solution.

Sumika Sustainable Solutions

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

Page 29 of Annual Report 2020

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

☐ Promoting Sustainability

Promoting Sustainability

■ "Sumika Sustainable Solutions" Main Products and Technologies

Solutions • Features / • Contributions Contributions to SDGs

Addressing Climate Change

PERVIO™, lithium-ion secondary battery separator



For a Sustainable Future

- ◆ 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

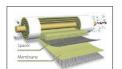


- An additive for carbon-fiber reinforced plastics used in aircraft
- Making aircraft lighter and hence fuel-efficient





CO₂ separation membrane

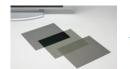


- Used in hydrogen production and natural gas refining to remove CO2
- It significantly reduces energy consumption during CO2 separation compared with conventional methods





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





Vector-control pesticides



- Fulfilling an important role in repelling and exterminating insects that spread infectious diseases
- These pesticides facilitate adaptation to the effects of climate change





Carbon dioxide separation and recovery technology (Sumitomo Joint Electric Power Co., Ltd.)



- Separates and recovers CO2 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 CO₂ separation and recovery is a proprietary technology of Nippon Steel Engineering Co., Ltd.



Contributes to reducing CO2 emissions.

High performance insulating coating material (Taoka Chemical Co., Ltd)



- High performance insulating coating mainly used for automotive batteries.
- Contributes to motor miniaturization and higher output, and reduces greenhouse gas emissions.





□ Promoting Sustainability

Promoting Sustainability

■ "Sumika Sustainable Solutions" Main Products and Technologies

Solutions Contributions to SDGs ◆ Features / ● Contributions

Reducing Environmental Impact

Halogen-free flame-retardant elastomer

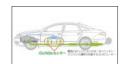


For a Sustainable Future

- ◆ 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 O2/ 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.



Polymer OLED lighting



- ◆ These lights can produce color over a wide temperature range, from gentle to vivid, due to the coating and printing methods
- The coating and printing methods help save energy and resources in manufacturing processes



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







Seed treatment agents



- Accurate treatment of seeds prior to sowing with seed treatment agents makes it possible to substantially reduce the spraying dosage and frequency of crop protection products
- Contributing to reduced environmental burdens in food production



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 "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







Cobalt-coated nickel Hydroxide positive Electrode material

(Tanaka Chemical Corporation)



◆ Making the designing of high-output nickel hydride batteries possible





Polypropylene materials for aluminum metallization film (The Polyolefin Company Pte. Ltd.)



- ◆ Polypropylene materials for aluminum metallization film, used for food packaging to extend
- Helping extend the shelf life of food products



to produce

□ Promoting Sustainability

Promoting Sustainability

■ "Sumika Sustainable Solutions" Main Products and Technologies

Solutions Contributions to SDGs ◆ Features / ● Contributions

SUMIKATHENE™EP, EXCELLEN™GMH, polyethylene used for refill pouches



For a Sustainable Future

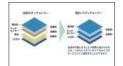
◆ For detergent packaging, pouch bags made of this polyethylene material have easy tear-open spouts for easy refilling of dispensers







Substrate-less touch sensor (Dongwoo Fine-Chem Co., Ltd.)



◆ This product performs all the functions of a touch sensor without requiring substrates such as glass and film, which are indispensable elements in conventional touch sensors.



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.

This product contributes to resource saving





Effluent treatment technology using a deammoniation tower



 $\ \ \, \ \ \, \ \ \,$ Removes and recovers ammonia in effluent and recycles it for re-use.

Contributing to reducing greenhouse gas emissions.



 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





Glass Fiber Recycled Polypropylene



◆ This automotive material includes 60 to 100% of recycling waste polypropylene.





(Sumika Polymer Compounds Europe)



◆ Irrigation tubes that enable uniform and efficient water spray in greenhouse cultivation.

Compatible with the EU circular economy action





MISTACE S NIAGARA (Sumika Agrotech Co., Ltd.)

MISTACE S,



Enhances a great water saving effect.

plan.

polarizing film manufacturing process. Contributes to resource saving and environmental impact mitigation by reducing the use of chemicals.

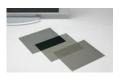
A technology that prevents the oxidation of

iodine through optical control, used in the





Prevention of iodine oxidation in polarizing films manufacturing process



☐ Promoting Sustainability

Promoting Sustainability

Participation: Employee Engagement Project to Promote Sustainability (the Sumitomo Chemical Group Global Project)

For a Sustainable Future

The Sumitomo Chemical Group considers that to accelerate the promotion of sustainability, it is 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. This project, joined by all officers and employees via a dedicated website, is intended to help participants to deepen understanding of global trends and the Group's measures related to the promotion of sustainability by answering on-line quiz questions. It also aims to spur action to promote sustainability by inviting participants to post on the website their efforts on a department or individual level.

For fiscal 2019, we adopted "For a Sustainable Future—JIRI RITA—" as our project title in line with our current Corporate Business Plan for fiscal 2019 to fiscal 2021, and set seven themes by referring to the material issues we will address as management priorities. In order to promote our sustainability efforts across the Group, we communicate the significance of the Global Project and other sustainability measures to all at Sumitomo Chemical and Group companies in Japan and overseas.

In the Global Project for fiscal 2019, at each Group company, the top management selected some of those themes and posted a message to show their commitment to resolving societal issues, and managers in charge of sustainability invited officers and employees to join in. Participants, first of all, took a quiz and answered questions on each of the hemes, enjoying learning about the connection of societal issues and each of our material issues and about the Group's sustainability initiatives, and then considered what they could do to promote sustainability through their own work or their workplace initiatives and posted their thoughts and commitment.

FY2019–FY2021 Corporate Business Plan



Material Issues to Be Addressed as Management Priorities

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

Promoting Sustainability

Sumitomo Chemical Sustainability Data Book 2020

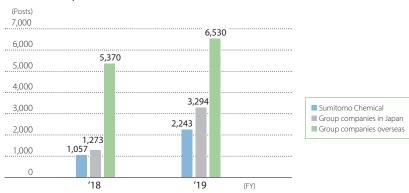
For fiscal 2019, 110 Group companies participated in the Global Project, with a cumulative total of 22,796 people taking a quiz and 12,067 posts. More people participated than for last year, and we consider this to be attributable to our efforts to communicate the significance of the Global Project along with our sustainability measures to Group companies' managers in charge of sustainability. In addition, we see the increase in posts from fiscal 2018 as a sign that momentum is gaining across the Group towards promoting sustainability.

FY2019 Participation Results

			Results
Number of	Total		110
participating	By organization	Sumitomo Chemical and Group	53
companies*1		companies in Japan	23
		Group companies overseas	57
Cumulative total of	Total		22,796
quiz participants	By organization	Sumitomo Chemical	4,993
		Group companies in Japan	8,529
		Group companies overseas	9,274
	By participation	Online	22,594
	method	Offline*2	202

^{*1} Companies that participated through the website by way of at least one of the following: the top management delivered a message; officers and employees took a quiz; and officers and employees posted their actions and endeavors.

Number of posts

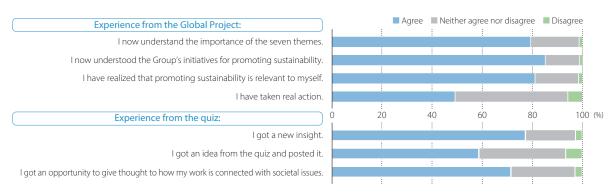


FY2019 Results

Posts: **12,067**

(Of this total, 141 were posted by Group companies' top management.)

■ Survey on participants' experience (1,850 responses from participants)



 $^{^{*}2}$ The number of participants who took a quiz in workplace meetings and other off-line events.

Promoting Sustainability

The Global Project uses a dedicated website to allow officers and employees to participate at any time from anywhere. The website can be accessed via smartphones and is equipped with a translation function so that Group officers and employees around the world can take part in the project.

■ Three Steps for Participation

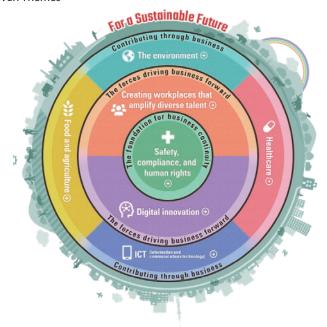


For a Sustainable Future

Quiz

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

Seven Themes



Note: The seven themes include: "safety, compliance, and human rights," selected from the items serving as the foundation for business continuity; "digital innovation" and "the creation of workplaces that bring out diverse capabilities," efforts that we consider to be forces that drive our business forward; and "the environment," "healthcare," "ICT," and "food and agriculture," material issues that we will address to contribute to society through our business. These major themes represent our commitment to realizing a sustainable future.

Looking Ahead

We will continue to run the Global Project in keeping with our Corporate Business Plan for fiscal 2019 to fiscal 2021 to promote sustainability across the entire Group.

Global Project in the past

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

Participation in Initiatives

Basic Policy

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.

For a Sustainable Future

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 13,000 companies and organizations have signed on. We are one of the 41 Global Compact LEAD companies in the world, recognized for our constant engagement with the UNGC and out business activities that comply with the UNGC's ten principles.

In fiscal 2019, we participated in two action platforms: "Pathways to Low-Carbon and Resilient Development" and "Peace, Justice and Strong Institutions."

In Pathways to Low-Carbon and Resilient Development, we participated in the Ambition Loop, which is a collection of case studies about public-private cooperation to create zero-carbon economic growth, and introduced our own activities.

In Peace, Justice and Strong Institutions, we participated in regularly held online seminars and collected data on anti-corruption initiatives in each country. We also participated in and networked at the subcommittee meeting held in New York. In September 2019, we participated in the 11th annual UN Private Sector Forum and conducted networking and information sharing activities. During the same period, we also participated in the Climate Action Summit 2019 and the SDG Summit 2019 held at the UN and deepened our understanding of the latest sustainability-related trends in each country.





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



Participation in Initiatives

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

For a Sustainable Future

Participation in the WBCSD*

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. In 2018, 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/Sustainable-Development-Goals/Resources/Chemical-Sector-SDG-Roadmap



In addition, in 2019, 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 recomendations for the chemical sector and details the fundamental elements needed to analyze scenarios.

WBCSD | TCFD Chemical Sector Preparer Forum Report



https://www.wbcsd.org/cfbcso 🗗



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.

Participation in Initiatives

Initiatives for TCFD* 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

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change and actively communicating our efforts, with the recognition that such disclosures reflect the demands of the current era. Initiatives in line with the TCFD recommendations have only just begun globally. Going forward, through continual dialogue that is perpetuated by corporate disclosures and feedback from investors in response to said disclosures, we expect an international consensus to form about how data related to climate change should be disclosed. 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		
	Joined WBCSD TCFD Preparer Forum		
Since December 2018	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		

^{*} 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

Participating in the New Global Environmental Initiative the Alliance to End Plastic Waste



The Sumitomo Chemical Group joined the Alliance to End Plastic Waste (AEPW),

launched in January 2019, as one of the founding members. The AEPW is an alliance of global companies formed to advance solutions to eliminate plastic waste in the environment, especially in the ocean.

Given that plastics are useful materials widely used in every part of modern life, the AEPW will undertake a number of initiatives in collaboration with such global organizations as the WBCSD to minimize and manage plastic waste in the environment. The goal is to invest \$1.5 billion over 5 years, mainly in the following four key areas that we have been working in.

Four Key Areas where the AEPW Pursues Solutions:

- Infrastructure development to collect and manage plastic waste and increase recycling
- Innovation to advance and scale new technologies that make recycling and recovering plastics easier and create value from all post-use plastics
- Education and engagement of governments, businesses, and communities to encourage action
- · Clean up of concentrated areas of plastic waste already in the environment, particularly the major conduits of waste, like rivers, that carry land-based plastic waste to the sea

The Sumitomo Chemical Group has positioned contributing to the recycling of plastic resources as a material issue that management should address and has been working to develop various technologies to aid its efforts, especially those related to the 3Rs (Reduce, Reuse, Recycle). Participation in the AEPW will prompt us to further accelerate its efforts to help end plastics waste in cooperation with other participating companies that share the same aspirations.

□ Participation in Initiatives

Participation in Initiatives

Our ICCA* Activities

The Sumitomo Chemical Group participated in the leader group for energy and climate change 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.

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In addition, we also participate in the leader group for chemical substance policy and health. We conduct surveys related to regulatory trends around the world and mechanisms for relaying information on chemical substances contained in products. We also cooperate in promoting widespread product stewardship in each participating country, focusing on those in Asia. Furthermore, we participated in a task force on plastic waste problems and in discussions based on sound science related to problems surrounding microplastics and plastic substitutes.

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

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 have participated in the Global Compact Network Japan's (GCNJ (UNGC's local network)) WEPs Subcommittee as a leading company since its founding in fiscal 2016. 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.

Participation in Initiatives

■ GCNJ's WEPs Subcommittee Meetings Attended by the Company: Fiscal 2019 Activities

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Meeting	Date	Theme	Lecturer	
1	July 18, 2019 (Thursday)	Intro to WEPs: latest international trends and impact on Japan	Asako Osaki National Coordinator, We Empower Japan	
2	September 6, 2019 (Friday)	Diversity that reverberates with top management	Haruaki Deguchi President, Ritsumeikan Asia Pacific University	
3	November 14, 2019 (Thursday)	Addressing investors' ESG concerns: focusing on the activities of the 30% Club Japan	Minoru Matsubara Resona Bank, Limited.	
4	January 16, 2020 (Thursday)	How to eliminate gender inequality in companies	Chizuko Ueno Professor Emeritus, The University of Tokyo	

Communication with Stakeholders

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Basic Policy

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 twoway 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. We will also work to enhance our communication through a variety of efforts, including not only business activities but also social actions and community dialogues, paying attention to the international community and global environment.

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 <i>Annual Report</i>, <i>Investors' Handbook</i> and <i>Sustainability Data Book</i> 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
Local Communities and Society	With a conviction that it is a mission for a company to strive to prosper with local communities where it operates, we are committed to building and maintaining good relationships with local communities by ensuring safety and protecting the environment in the communities, while engaging in various efforts to meet local needs.	 Publishing the Report on the Environment and Safety (for each operation site) Publishing local public relations newsletters Holding dialogues with local communities Hosting science workshop classes

· Local cleanup activities

☐ Communication with Stakeholders

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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 index, designed by FTSE Russell, a global index provider, consists of Japanese companies demonstrating strong ESG practices. It is designed so as to make the industry segment allocation similar to that of the Japanese stock market.

2020 CONSTITUENT MSCI JAPAN

MSCI Japan ESG Select Leaders Index https://www.msci.com/esg-investing

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.

2020 CONSTITUENT MSCI JAPAN EMPOWERING WOMEN INDEX (WIN)

MSCI Japan Empowering Women Index (WIN)

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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 index is designed by S&P Dow Jones Index, and selects companies from the Tokyo Stock Price Index (TOPIX). The better the companies are in their demonstration of higher carbon efficiency and disclosure of environmental information, the higher their component percentages are in this index. Our decile rating is 3, and the disclosure status is "disclosed."



EcoVadis Sustainability Rating 2020 "Gold"

EcoVadis was founded in 2007 as a provider of business ESG ratings to improve the environmental and social practices of businesses across global supply chains. Business policies, measures, and performance are rated in four areas: environment, labor and human rights, ethics, and sustainable resource procurement. Gold medals are given to the top 5% of companies, of about 65,000 companies rated.



CDP "Climate Change A List 2019"

We were rated on the "Climate Change A List 2019" by the CDP for two years in a row as a company taking particularly outstanding action on climate change. Of about 8,000 companies that disclosed information on climate change, 179 were A-listed, including 38 Japanese companies.



2020 Health and Productivity Management Awards - White 500

Established by the Ministry of Economy, Trade and Industry (METI) in 2016, this is a system to recognize corporations demonstrating superior health management based on health promotion initiatives led by Nippon Kenko Kaigi. We have received this award for three years running since 2018.



Kurumin, Next-generation Support Certification Logo

In September 2015, we received the next-generation support certification logo (Kurumin) for the third time running as a company that supports families raising children. This is an accreditation system whereby the Ministry of Health, Labour and Welfare certifies companies that executed action plans formulated as per the Act on Advancement of Measures to Support Raising the Next-Generation of Children, and met all the criteria.



Nikkei Annual Report Awards 2019, Outstanding Performance

Sumitomo Chemical's Annual Report for 2019 won an outstanding performance award at the Nikkei Annual Report Awards 2019, the third win following 2016 and 2017. Among 133 applicants, the judges, who included institutional investors, selected one company to received the Grand Prize, three companies to receive Second Grand Prizes, two companies to receive Special Awards, and 14 companies to receive Outstanding Performance Awards. As reasons for this award we received, judges commented, "Detailed description relating to climate change is provided," "The company fully conveyed that the management is keen on contributing to a sustainable society through its business," and "Sufficient information is disclosed so as to help investors evaluate the improvement of corporate value in a medium to long term."



The 23rd Environmental Communication Awards, the Grand Prize for Environmental Report

Our Annual Report 2019 and Sustainability Data Book 2019 won the Grand Prize for Environmental Reports at the 23rd Environmental Communication Awards. This is an accreditation system to promote corporate initiatives for environmental management and communications while improving the quality of information disclosure on the environment. For the 23rd Environmental Communication Awards, 180 reports were submitted for consideration, and 25 reports were selected to be awarded the Grand Prize.

The Sumitomo Chemical Group's Contribution to the SDGs

For a Sustainable Future

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

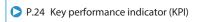
In Principle 2 of the Basic Principles for Promoting Sustainability, we express the Group's commitment to abiding by international rules related to sustainability and helping resolve vital issues facing the international community. In particular, we pledge to promote efforts toward achieving the United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



When identifying the material issues that Sumitomo Chemical addresses 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.







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
Petrochemicals & Plastics	7 AFFORDABLE AND CLEAN ENERGY 9 INDUSTRY, INNOVATION AND PRODUCTION AND PRODUCTION CONSUMPTION AND PRODUCTION
Energy & Functional Materials	7 AFTORDABLE AND CLEANENGROY 13 CLIMATE ECONOMIC GROWTH 8 DECENT WORK AND ECONOMIC GROWTH
IT-related Chemicals	8 DECENT WORK AND ECONOMIC GROWTH 9 ANDINFRASTRUCTURE 11 SUSTAINABLE CITES 12 RESPONSIBLE CONCUMPTION AND PRODUCTION AND PRODUCTION AND PRODUCTION TO THE GOALS
Health & Crop Sciences	2 ZERO HUNGER 3 GOOD HEALTH AND WELL-BEING AND WELL-BEING WITH AND WELL-BEING AND WEIN-BEING AN
Pharmaceuticals	3 GOOD HEALTH AND WELL-BEING 8 DECENTI WORK AND ECONOMIC GROWTH 9 NOUSTRY INVOLUTION AND PRODUCTION AND PRODU

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https://www.sumitomo-chem.co.jp/english/ir/library/annual_report/files/docs/ar2020e_13.pdf 👩

☐ The Sumitomo Chemical Group's Contribution to the SDGs

The Sumitomo Chemical Group's Contribution to the SDGs

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The SDGs as the International Community's Shared Goals and the Sumitomo Chemical Group's Global Project

In an effort to promote group-wide engagement in promotion of sustainability, we have organized the "Sumitomo Chemical Group Global Project," an annual in-house initiative using a dedicated website. This provides an opportunity for each Group officer and employee in Japan and overseas to think about issues facing society and post on the website their ideas about efforts to help resolve them. We made the SDGs a central theme for the project for a period of fiscal 2016 to fiscal 2018 to deepen our understanding of the connection between the common goals set by the international community and what each one of us do at work.

Global Project



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

Recognition of the Company's Efforts toward Achieving the SDGs

Sumitomo Chemical was granted the Award of Deputy Chief (the Minister for Foreign Affairs) at the first Japan SDGs Award ceremony held in 2018. The Japan SDGs Award is conferred by the Sustainable Development Goals (SDGs) Promotion Headquarters—a body established in Japan's Cabinet and comprising all Ministers of the country—in recognition of those companies and organizations engaged in important initiatives toward achieving the SDGs. The Award recognized that our efforts could serve as a role model in Japan and overseas, hoping that they would be duplicated by other companies. It also highly valued the Company's contribution over many years to Africa and its advancement in terms of economy, society and the environment through its Olyset™ Net business, including creating job opportunities by local production of the mosquito net, improving the working environment for women, and constructing schools to support education.

Sumitomo Chemical Receives the Deputy Chief's Award (by Minister for Foreign Affairs) of the First Japan SDGs Award



https://www.sumitomo-chem.co.jp/english/news/detail/20180105.html

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Corporate Governance Initiatives

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 Board of Directors is highly effective, and that the company's governance structures serve their appropriate functions, including with respect to executive nomination and remuneration, with the aim of further improving corporate governance.

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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 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 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/governance/

■ Measures to Date for Strengthening Corporate Governance

	Date	Major Initiatives	Board Composition	Appointment of Board Members		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 Director Nomination Advisory Group		•		
2016	December	Formulated Sumitomo Chemical Corporate Governance Guidelines				•
2018	June	Selected 4 outside directors (including one woman) (increased by 1)	•			

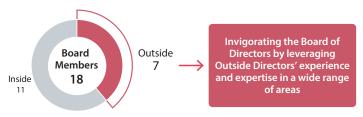


Recent Initiatives to Strengthen Corporate Governance

Further Strengthening of the Board of Directors' Oversight and Advisory Functions

With the goal of further strengthening the Board of Directors' oversight and advisory functions to increase the transparency and objectivity of management, in June 2018 we added one outside director, increasing the total number to four (including one female director). As a result, of the 18 total members of the Board of Directors and the Board of Corporate Auditors, seven are outside members. Outside Directors have experience in a wide range of fields, including corporate management, economics, government, the legal profession, and accounting. We will continue to further revitalize the Board of Directors, leveraging these perspectives.

■ Board Composition (As of July 1, 2020)



	Inside	Outside		
Director	9	4 (including one female director)		
Corporate Auditor	2	3		

Changes in the Operation of the Board of Directors

After the implementation of Japan's Corporate Governance Code, we changed the operation of the Board of Directors to place greater emphasis on deliberating management policies, business strategy, and important matters of business execution, and on oversight of that execution. Specifically, we are enhancing reporting on the status of business execution for each Executive Officer. Depending on the content of each report, we have established several reporting methods. For example, for large-scale projects, we share details with the Board of Directors at an early stage and discuss the direction of the projects. In this way, meaningful discussions are held that contribute to sustainable development and rapid and decisive decision-making.

Utilizing Outside Director Roles

To make maximum use of the oversight and advisory functions of the Outside Directors, it is essential to minimize asymmetries in information between inside and Outside Directors. The measures including those listed below have been implemented to revitalize board deliberation.

■ Measures to Make Maximum Use of Outside Director Functions

Specific Measures	Frequency	Description
Briefings prior to Board of Directors meetings	Every month	Outside Directors gather together in advance of Board of Directors meetings to receive a detailed briefing from the relevant departments, along with a Q&A session, on issues to be discussed at the Board of Directors meeting.
Reporting on issues discussed in internal meetings	Every month	Explanations are provided on the points of discussion at internal meetings, and on how the views expressed at the meetings are reflected in the proposal before the Board, for issues such as the launch of a business or an acquisition.
Reporting on important matters to the Board of Directors at an early stage	In each case	Important matters, such as management direction, M&A transactions, or large-scale projects, are reported to the Board of Directors at an early stage of consideration so that the Board's intentions can be reflected.
Outside Directors & Corporate Auditors meetings	Once a year	Based on such materials as the results of surveys on the effectiveness of the Board of Directors, meetings consisting of the Chairman of the Board, the President and the Outside Directors and Corporate Auditors are held to enable a frank exchange of views.
Meetings with Outside Directors and Corporate Auditors only	Twice a year	After Board of Directors meetings, meetings consisting of only Outside Directors and Corporate Auditors are held to exchange opinions freely.
Meetings between Outside Directors and Corporate Auditors and major sectors	Six times a year	After Board of Directors meetings, meetings are held between the executives and employees of the department in charge of the Rotation Report* for that Board of Directors meeting and the Outside Directors and Corporate Auditors, enabling them to exchange opinions freely and honestly.
Visits to production sites	Twice a year	Visits are made to our production sites both inside and outside Japan.

^{*} Rotation Report: Comprehensive and systematic reporting over a significant amount of time for each sector.

□ Corporate Governance

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Assessing the Effectiveness of the Board of Directors

Assessment Method

Sumitomo Chemical's Board of Directors carries out analyses and appraisals regarding the effectiveness of the Board of Directors through exchanges of opinions at meetings attended by Outside Directors, Outside Corporate Auditors, the Chairman of the Board, and the President, as well as at Management Meetings attended by inside directors, while taking into account survey results from all Directors and Corporate Auditors and opinions expressed by the Board of Corporate Auditors. Based on these opinions, the Board of Directors works to improve its effectiveness every year.

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Assessment of Fiscal 2019 and Improvements over Fiscal 2018

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. At the end of fiscal 2019, we confirmed steady yearly improvement in its effectiveness, which was at a favorable level in general. With new perspectives always in mind, we continue various initiatives and work to devise ways to improve its effectiveness.

■ Addressing Various Points to be Improved that were Raised in Fiscal 2018

- Setting up a timeframe for meetings, giving more ample time for the Board of Directors. Giving greater clarification of the main issues during briefings, and promoting more active discussion at the Board of Directors.
- To enable Outside Directors and Outside Corporate Auditors to play their roles and responsibilities properly, we plan a meeting only for independent outside directors and auditors, and provide a venue where Outside Directors and Outside Corporate Auditors can exchange views frankly with a broad range of personnel in the company.

■ PDCA Cycle for Further Improving the Effectiveness of the Board of Directors



Toward the Future

With the aim of achieving long-term sustainable growth, Sumitomo Chemical will discuss its long-term vision in depth, taking into account the next Corporate Business Plan, in addition to the promotion of sustainability. To further enhance group governance, we will strengthen our supervision of the post-merger integration (PMI) process for newly acquired businesses, examine ways to further increase synergies among businesses, and review business portfolios. In an effort to encourage more deliberation at meetings of the Board of Directors, we will also create greater linkages between pre-briefing sessions and meetings of the Board of Directors, set up a venue for more free discussion, and make more thorough Rotation Reports.

Visit to Production Sites by Outside Directors and Corporate Auditors

To gain a better understanding of the current situation, every year Outside Directors and Outside Corporate Auditors at Sumitomo Chemical visit production sites located in and outside of Japan. In November 2019, they visited the Misawa Works. Outside Directors and Outside Corporate Auditors considered the visit to be very significant, as it deepened their understanding of the business of the company.

Note: Visit to a group company in Taiwan scheduled in February 2020 was postponed due to the Covid-19 pandemic.

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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



Visit to Misawa Works (in November 2019)

■ Major Agendas Discussed at Meetings of the Board of Directors in Fiscal 2019

- Financial results, dividends, financing
- 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
- Important investments
- Acquisition of the South American business of Nufarm
- · Strategic alliance with Roivant
- Projects relating to Petro Rabigh

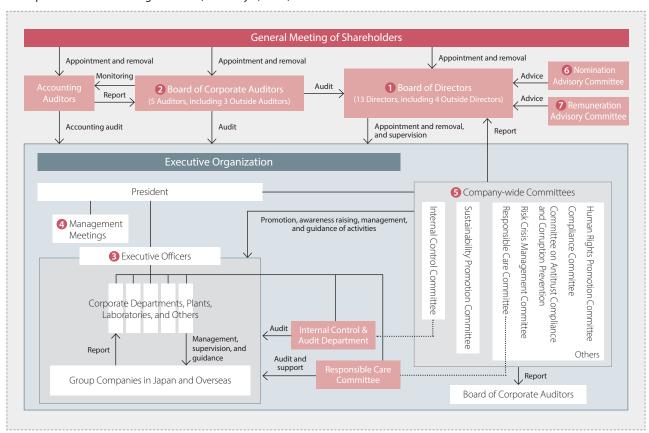
etc.

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Current Corporate Governance Organization

■ Corporate Governance Organization (As of July 1, 2020)



Structure

Board of Directors

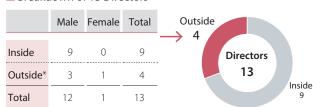
The Sumitomo Chemical Board of Directors decides important matters concerning the company's management, including management policy and business strategies, in accordance with the law, the Articles of Incorporation, and the Board of Directors' own rules. It also receives reports from Directors and others 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

Chairperson	Chairman of the Board	The Chairman of the Board does not concurrently serve as Executive Officer.			
Number of Persons	13				
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 13 Directors



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



2 Board of Corporate Auditors

We have a Corporate Auditor system, with a Board of Corporate Auditors consisting of five Corporate Auditors, including three Outside 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.

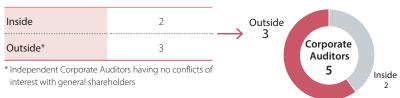
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Standing Corporate Auditors and Outside Auditors attend meetings of the Board of Directors and the Board of Corporate Auditors. In conducting their audits, they receive reports and explanations as needed from the Internal Control & Audit Department, 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 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



Management Organizations for Decision-making, Execution, and Auditing

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 37 Directors

	Male	Female	Total
Japanese	32	1	33
Non-Japanese	4	0	4
Total	36	1	37

4 Management Meetings

Management Meetings support the decision-making of our management by providing a forum for deliberation on such vital matters 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.



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.

For a Sustainable Future

We regard the promotion of sustainability as a core issue for the entire Group. In 2018, we expanded the CSR Promotion Committee and established a new 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 in respect of human rights, the Human Rights Promotion Committee was established in fiscal 2019.

Overview of Committees and Number of Meetings in Fiscal 2019

Name	Purpose	Number of Meetings
Internal Control Committee	Deliberates on measures to build and improve a proper internal control system.	3
Sustainability Promotion Committee	This committee recommends measures to accelerate contributions to sustainability by comprehensively grasping the various efforts the Sumitomo Chemical Group makes regarding environmental and societal issues.	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 and Crisis Management 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.	6*
Compliance 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.	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.



Sumitomo Chemical Sustainability Data Book 2020

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. The committee is made up of Outside Directors and Sumitomo Chemical representative directors. Regular meetings are held annually and ad hoc meetings are convened as needed. With a majority of members being Outside Directors, the committee advises the Board of Directors on the appointment of officers, with the purpose of ensuring more transparency, fairness, and openness in the process of appointing officers and bringing greater clarity to the process.

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 top management and Directors. The committee is made up of Outside Directors and Sumitomo Chemical representative directors. It holds regular meetings annually and convenes ad hoc meetings as needed. With a majority of members being Outside Directors, the committee advises the Board of Directors in deciding the executive officer remuneration system and levels, in order to achieve greater transparency, fairness, and openness.

■ Directors' and Corporate Auditors' Remuneration in Fiscal 2019

(Millions of yen)

Title	Total	Breakdown of Remuneration		Number of people*
nue		Basic Remuneration	Bonuses	Number of people
Directors (excluding Outside Directors)	650	585	64	12
Standing Corporate Auditors (excluding Outside Directors)	78	78	_	3
Outside Directors and Corporate Auditors	103	97	6	7

^{*} The above count includes three directors and one auditor who retired during fiscal 2019.

Composition of the Nomination Advisory Committee and the Remuneration Advisory Committee and Attendance Status (Meetings Attended / Meetings Held) in Fiscal 2019

		Nomination	Remuneration
		Advisory Committee	Advisory Committee
Chairman of the Board	Masakazu Tokura (Chairman)	1/1 time (100%)	2/2 times (100%)
Representative Director & President	Keiichi lwata	1/1 time (100%)	2/2 times (100%)
Outside Director	Koichi Ikeda		2/2 times (100%)
Outside Director	Hiroshi Tomono	1/1 time (100%)	2/2 times (100%)
Outside Director	Motoshige Itoh	1/1 time (100%)	2/2 times (100%)
Outside Director	Atsuko Muraki	1/1 time (100%)	2/2 times (100%)

Activities of the Advisory Committees in Fiscal 2019

Nomination Advisory Committee	Deliberation on officers for fiscal 2020.	
Remuneration Advisory Committee	 Deliberation on revising the policy for determining the remuneration of executive officers. Deliberation on the calculation method for the bonuses of officers Deliberation on basic remuneration 	

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

Environment



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

For a Sustainable Future

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 outside 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

- Representative Directors select candidates suitable for senior management, the Board of Directors, or the Corporate Auditors in line with the policies described above.
- The results of the nomination will be deliberated at the Nomination Advisory Committee, comprised of Outside Directors and Corporate Auditors, which is set up under the Board of Directors, and recommended to the Board of Directors. The Board of Directors will deliberate based on the advice and make a decision. Appointment of a Director or Corporate Auditor will be made by a resolution at the General Meeting of Shareholders.

Appointment/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.

■ Policies and Procedures for Determining Remuneration of Senior Management and Directors*

1. Basic Policy for Remuneration of Directors, etc.

- (1) The remuneration of senior management and directors (hereinafter "Directors etc.") shall consist of basic compensation and bonuses.
- (2) Basic compensation is designed to serve as an incentive for the actions of Directors, etc. to contribute to the company's sustainable growth, rather than aiming for short-term or sub-optimal effects.
- (3) The scale of bonuses shall largely reflect the company's consolidated financial results for a fiscal year in order to heighten incentives to achieve the annual targets of business plans.
- (4) Remuneration shall be set at levels which are designed to be objectively competitive to attract and retain outstanding talent while taking into consideration such factors as the scale and content of the company's business. Based on surveys by a third-party organization and other materials, such levels shall be checked annually for objective appropriateness.

2. Mechanisms of Each Remuneration Element

(1) Basic Compensation

The level of basic compensation shall be determined based on the policy described in section 1(4) above.

While basic compensation for each year shall be fixed, the company will adopt a mechanism whereby basic compensation levels would be changed in the event that the company's position has changed, in terms of the company's size, earnings capacity, and outside evaluations, from a comprehensive and medium- to long-term perspective.

As main indicators for determining whether there has been a change in the company position, the company will apply the following: ① in terms of the company's size, 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 the 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 for each position.

(2) Bonuses

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 (performance indicator x coefficient).

In order to reflect the current earnings capacity of the relevant business year (including financial activities) in the value of bonuses, the company will use the combined value of consolidated core operating profit and financial profit and loss as the performance indicator in 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.

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

(3) Percentages of Fixed Remuneration (Basic Compensation) and Performance-linked Remuneration (Bonuses)

For a Sustainable Future

The company will set the bonus calculation formula such that the bonuses of Directors (excluding Outside Directors) accounts for roughly 30% of total remuneration when the consolidated performance goal (core operating profit) for the latest fiscal year of the Corporate Business Plan (FY2019 – FY2021) is achieved.

Remuneration

■ Conceptual Diagram of the Remuneration of Directors



Fixed Remuneration

Based on the factors for determination described below, the company will change the amount of remuneration when it is determinable that the company's position has changed from a comprehensive and medium- to long-term perspective.

Factors for Determination	Major Indicators	
Company's size	Sales revenue Total assets Market capitalization	
Earnings capacity	Current income (belonging to the parent company) ROE ROI D/E ratio	
Outside evaluations	Credit ratings ESG index selected by GPIF	

Note: The amount to be paid to each person will be determined by each position.

The amount of bonuses will be determined by the calculation formula based on the following consolidated performance indicator.

Consolidated performance indicator	Core operating profit plus financial profit and loss	
Calculation formula	Consolidated performance indicator X Coefficient*2	

^{*2} The Company will arrange so that the higher the position, the larger the

Note: If a consolidated performance indicator does not exceed a particular level, bonuses will not be paid.

3. Procedures for Determining Remuneration of Directors, etc.

The remuneration amount of Directors shall be set at a level not higher than the upper limit for total remuneration prescribed by the resolution of the 125th General Meeting of Shareholders, held on June 23, 2006 (i.e. 1 billion yen or less per year).

Furthermore, the specific amount of remuneration for each Director or other officer shall be determined by the Chairman of the Board, as authorized by the Board of Directors, based on the standard advised by the Remuneration Advisory Committee.



Status of the Development of the Internal Control System

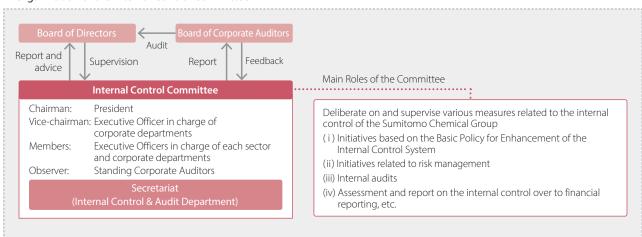
Sumitomo Chemical established its Basic Policy for the Enhancement of the Internal Control System by a resolution of the Board of Directors, creating a system to ensure the appropriateness of its operations as stipulated in the Companies Act.

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, with additional meetings held as needed.

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



□ Internal Control



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 🛂

For a Sustainable Future



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, environment, and quality throughout the life cycle of chemical products. Internal audits and Responsible Care audits are coordinated with each other as needed.

Internal Audits

The Internal Control & Audit Department organizes teams of several employees who conduct internal audits on Sumitomo Chemical and its major Group companies once every two to five years from the following perspectives: effective and efficient operations; reliability of financial reporting; and compliance with relevant laws and statutes in all business activities.

The department also reports the results of internal audits to the Internal Audit Liaison Meeting, which is held on a quarterly basis and is attended by the 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. The department also reports to the Internal Control Committee once every six months in order to share issues and to promote the lateral deployment of measures.

In addition, in accordance with the Financial Instruments and Exchange Act, the department evaluates the effectiveness of internal controls over the Sumitomo Chemical Group's financial reporting, and also reports on the status of its evaluations to the Internal Control Committee.

In case any serious matter relating to internal controls is found, the matter will be promptly reported to Executive Officers and Standing Corporate Auditors on the reporting line.

Responsible Care Audits

The Responsible Care Department organizes teams of dedicated employees to conduct responsible care audits on each of our business sites and on major Group companies once every one to three years, in principle, from the following perspectives: ensuring safety, health, environmental protection, maintenance and improvement of quality, compliance, including with security trade controls, and control system security throughout the entire life cycle of chemical products.

Through these audits, we are striving to support the improvement of Responsible Care management in accordance with the size, type of business, and characteristics of each business site and Group company. Issues discovered during the audit and the progress of improvements are reported internally every time and to the Responsible Care Committee when it meets once a year.



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.

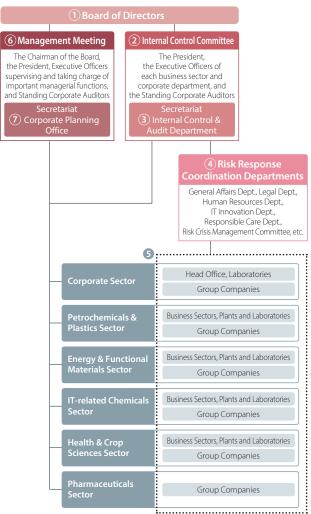
For a Sustainable Future

Risk Management Organization

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 order to support initiatives and thorough risk management of each organization, the Internal Control Committee deliberates on Group-wide risk management policy, collection of risk information, and various measures to thoroughly communicate to employees in the Group.

Management meetings deliberate as needed on the management strategy of Sumitomo Chemical and Group companies around the world, critical matters for management, including capital spending/investment and loans (refer to page 33), in terms of both opportunities and risks. 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.

Risk Management Promotion Organization



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 Meetinas.

Internal Control Committee (Chaired by the President)

• The committee deliberates on policies related to risk management for the entire Sumitomo Chemical Group, and supervises the efforts of each organization based on these policies.

3 Internal Control & Audit Department

· As the Secretariat of the Internal Control Committee, this department monitors the risk management activities of each department and Group company of the Sumitomo Chemical Group.

4 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.

Each Department and Group Company

- These organizations are the main drivers of risk management.
- The organizations develop and implement countermeasures for the risks affecting their own organization or company.

Management Meeting

· Concerning important matters for management, including management strategy and capital spending for each organization of the Group, it deliberates on individual proposals in terms of risks and opportunities.

Corporate Planning Office

• As the Secretariat for the management meeting, it selects the agenda for deliberation and conducts meetings so as to enable proper deliberation of important matters.

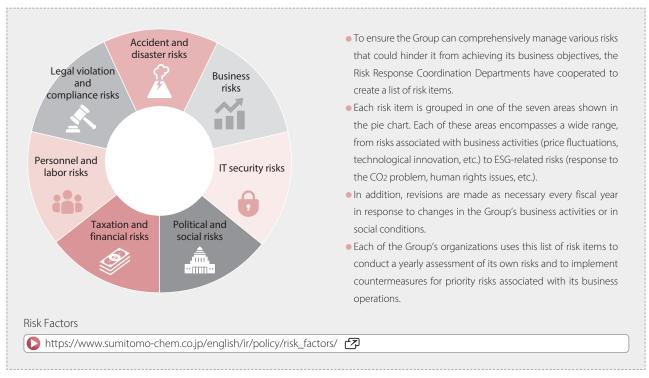


Promotion of Group-wide Priority Risk Assessment and Countermeasures

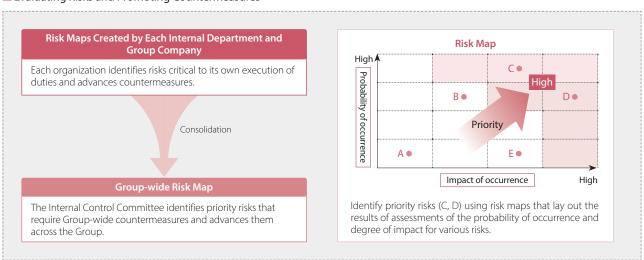
For a Sustainable Future

Every year, approximately 120 major organizations, both in Sumitomo Chemical and Group companies around the world, conduct risk evaluations, assessing the probability of occurrence and the potential impact of various risks that could hinder the achievement of business objectives. These results are then aggregated by the Internal Control & Audit Department to create a Group-wide priority risk map. Based on this risk map, the Internal Control Committee identifies priority risks that require Group-wide countermeasures. Then, our risk response coordination departments, which have been established for each priority risk, formulate a response plan for the entire Group, and each organization of the Group implements countermeasures in accordance with this plan. Moreover, the committee regularly receives reports on the progress of countermeasures and gives necessary instructions.

■ Risks Subject to Risk Management



■ Evaluating Risks and Promoting Countermeasures



For a Sustainable Future

Environment





Cross-organizational Risks and Crisis Response

We established the Risk and 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.

For a Sustainable Future



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-today 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 20) 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/ 🔀



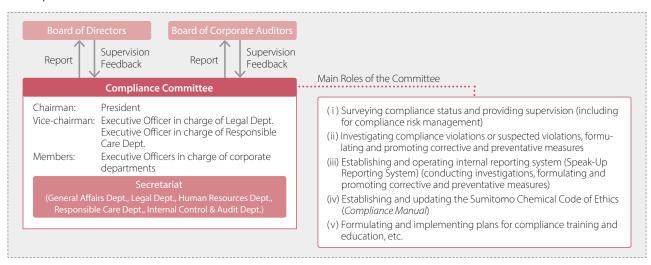
Compliance System at the Sumitomo Chemical Group

For a Sustainable Future

(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. In fiscal 2019, the South American RLCO was established and started its activities after we acquired businesses in South America.

■ Compliance System at Sumitomo Chemical Group





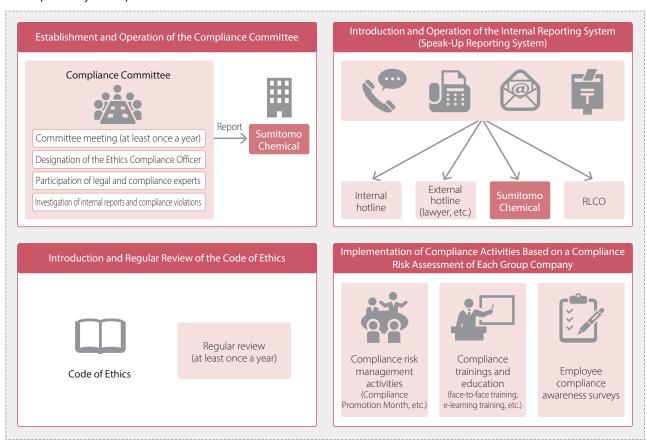
(3) Introducing and Operating a Compliance System for the Company and its Group Companies

For a Sustainable Future

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





Internal Reporting System (Speak-Up Reporting System)

For a Sustainable Future

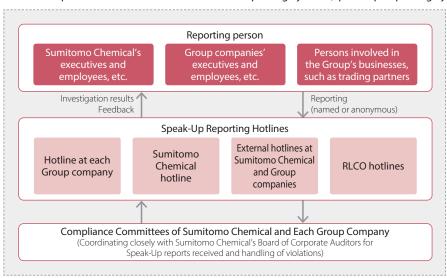
(1) The Internal Reporting System Is the Key to Ensuring Compliance

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.

(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.

Environment



(4) Latest Results of the Internal Reporting System

As a result of initiatives promoting use of the reporting system, in fiscal 2019, 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 151, a year-on-year increase of 2 reports. Upon its receipt, each report was worked on, and an investigation was conducted promptly and cautiously into a 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 a violation incident and corrective measures actually taken was shared, as necessary, by 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*)

	FY2017	FY2018	FY2019
Number of reports	98	149	151
Number of reports	90	149	151

For a Sustainable Future

Response to Compliance Violations

At Sumitomo Chemical, when a compliance violation or suspected violation is discovered within a department, 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 preventative 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 compliance violations are discovered through these audits, corrective action is taken directly at that time. In fiscal 2019, there were no major compliance violations related to the Sumitomo Chemical Group's business continuity.

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 22, 2020, 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 2020.

Sumitomo Chemical Code of Ethics (Compliance Manual)

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

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



(3) Compliance Promotion Activities

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

For a Sustainable Future

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 effective enough when implemented. Continuous implementation of these measures not only reduces specific compliance risks in the workplace but also helps in raising employees' compliance consciousness.

During the Compliance Promotion Month initiatives of fiscal 2016, so-called "fraud" risks were made essential topics of discussion. In fiscal 2017, collusion and harassment were essential topics; in fiscal 2018, information leaks and management of the company's assets were essential topics; and in fiscal 2019, compliance with various business laws was an essential topic. All major compliance risks were examined and identified in each department, and then, concrete preventive measures were formulated and implemented. Reports on these activities are 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.

(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 2019, we conducted compliance e-learning training for all Sumitomo Chemical employees (around 7,000 people), and all employees received the training. In addition, Group companies in Japan conduct compliance training.

■ FY2019 Compliance Training Status

	Status of Implementation		
Compliance e-learning training (including prohibition of insider trading and personal data protection) Participation rate: 100% (conducted at all worksites and departments) (already conducted training for promoted employees and individual training related to corruption prevention, quassurance, 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: 73.2% Attendance rate at Group companies overseas: 73.8%		

^{*} 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 and around 50 Group companies in Japan and overseas conducted similar surveys. Questions about topics such as the compliance awareness among individual employees were designated as key performance indicators (KPIs) for this survey, and observing trends in these KPIs each time a survey is conducted will lead to the discovery of issues and the setting forth of measures aimed at further improvement.



(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 143), 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 79).

For a Sustainable Future

(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 we intend to promote the introduction of the manual by Group companies in Japan and overseas going forward. Furthermore, we are actively providing training using this Competition Law Compliance Manual.

Moreover, as a general rule, we prohibit executives and employees of business departments 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 departments (cumulative total of 14 times since FY2018)	
Sumitomo Chemical Group*1	Group companies in Japan* ² : 48.6% Group companies overseas* ² : 60.0%	

^{*1} Does not include Sumitomo Chemical

(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 and Audit Department and the Responsible Care Department conduct compliance audits. (For more details on the Responsible Care Department's audits, refer to page 85.) Regarding matters discovered during the compliance audits, appropriate corrective measures are taken.

^{*2} Percentage of companies that conducted training

Environment



Sumitomo Chemical Group Compliance Action Policy (FY2020)

For a Sustainable Future

Under the Corporate Business Plan, ensuring strict compliance for the entire Sumitomo Chemical Group is a basic policy, Sumitomo Chemical steadily respond to the following issues.

- New trends, including the SDGs, ESG, sustainability, diversity, and respect for human rights
- The increasing impact of compliance violations (sanctions, damage of credibility, etc.) associated with our global expansion
- The growing importance of daily risk control and crisis management
 In this way, Sumitomo Chemical will strengthen and improve the Group's compliance system operations and continue to further enhance its effectiveness.

■ FY2020 Sumitomo Chemical Compliance Action Goals

Items	FY2020 Goals	FY2019 Results	FY2018 Results
Internal Reporting (Speak-Up reporting)	Regarding the number of employees per report, maintain 100% compared to the previous fiscal year (280 people per report)	280 people per report	283 people per report
Compliance Training	Conduct compliance training at 90% of Group companies	Sumitomo Chemical*1: 100% Group companies in Japan*2: 97.4% Group companies overseas*2: 83.6%	Sumitomo Chemical*1: 100% Group companies in Japan*2: 97.4% Group companies overseas*2: 89.6%

^{*1} Attendance rate (percentage of employees)

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.

^{*2} Percentage of companies that conducted training



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

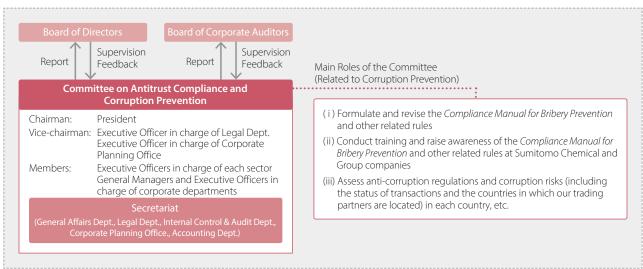
For a Sustainable Future

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





■ 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.

For a Sustainable Future

- 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.

For a Sustainable Future

Society



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.



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.

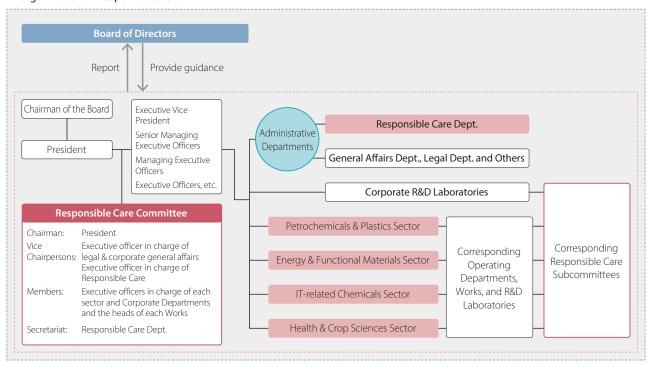
For a Sustainable Future

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 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 activities, mediumterm 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)

For a Sustainable Future

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 1, 1994)" and "Policy on Responsible Care Activities (Established: January 1995)"



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.

For a Sustainable Future

	Medium-term Plan (FY2019 – FY2021)	
Occupational Safety and Health	 Assess the level of safety culture and safety infrastructure at each workplace and constantly strive for improvement. Promote safety and health activities based on international standards and adapt to a society where people can choose from a variety of flexible working styles 	
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	• Work to rapidly respond to environmental laws and regulations and continually reduce our environmental impact • Actively work to disclose environmental information to help steadily improve our standing in society	
Addressing Climate Change	 Work to formulate and implement action plans aimed at achieving our science based targets (SBTs) Consider medium- to long-term policies for Sumika Sustainable Solutions 	
Product Stewardship, Product Safety, and Quality Assurance	 Use the regulation data collection systems in cooperation with Group companies and establish a long-term system Strive to increase use of the Company's systems, including the comprehensive chemical management system (SuCCESS) Promote activities to prevent quality-related problems 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.



Eco-First Commitments

In March 2012, Sumitomo Chemical reported the progress and results of its efforts to fulfill the Eco-First Commitments to the Japanese Minister of the Environment while announcing its Eco-First Commitments, Updated Version.

Note: The content was updated in November 2016. From fiscal 2016, measures are being taken in line with the updated content.



Eco-First Commitments Updated Version

November 30, 2016

To Koichi Yamamoto Minister of the Environment

President of Sumitomo Chemical Co., Ltd. Masakazu Tokura

As a leader in the chemical industry, Sumitomo Chemical Co., Ltd. considers the appropriate management of chemical content of the content osubstances to be fundamental and 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.

We will promote the management of chemical substances and the risk communication in an appropriate and proactive manner using proprietary technology.

- We will review the information on the safety for all our products manufactured and sold in annual amounts of one ton or more
 by fiscal 2016, and we will conduct the appropriate risk assessments based on the results by fiscal 2020 using our proprietary technology. In addition we will make the results available to the general public as Safety Summaries.
- We will collaborate with chemical companies in the world on studies of the impact of chemical substances on human health and the environment (Long-range Research Initiative) in order to improve the safety of chemical substances.
- ▶ 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.

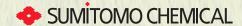
We will develop and apply management technologies that help reduce environmental impacts to realize safe and secure water treatment.

- ◆ To make it easier to select the more appropriate water treatment method (either activated sludge or incineration), we will work to more uniformly standardize methods for evaluating the various kinds of process water expelled from plants
- We will use microbiota analysis, microbial immobilization and other proprietary technology to increase the sophistication of activated sludge treatment and thereby achieve the following goals:
 - 1. Ensure stable water treatment by checking and managing the health of the sludge biota
- 2. Improve our treatment capabilities
- Switch over a portion of the treatment of wastewater for which activated sludge treatment had been deemed too difficult from incineration to such treatment

3 We will proactively contribute to build a sustainable society.

- To contribute to society through the power of chemistry (and related businesses) and encourage reductions in CO2 emissions through the widespread adoption of low-carbon products and technologies, we internally designate products and technologies. ogies that help address climate change, actively promote the development and widespread adoption of these products and technologies, and make available to the public quantitative information on emission reductions.
- We strive to improve the unit energy consumption of all plants by an annual average of 1%. We will switch to energy sources with low emission factors, introduce cogeneration systems and promote the installation of LED lighting at worksites. Through these and other efforts, we will improve CO2 emission intensity from energy sources 15% relative to fiscal 2005 by fiscal 2020. As a result, total CO2 emissions in fiscal 2020 will be 15%, or around 3.2 million tons, lower than those in fiscal 2005
- We promote internal education and environmental education activities in different regions to deepen understanding of the importance of environmental protection.

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.





Progress in Fulfilling Eco-First Commitments

Sumitomo Chemical has participated in the Eco-First Program of Japan's Ministry of the Environment since November 2008. As a leading company in the chemical industry, Sumitomo Chemical is committed to fulfilling its Eco-First commitments to the Japanese Minister of the Environment while ensuring legal compliance and enhancing RC activities.

Management of Chemical Substances and the Promotion of Risk Communication

Reviewing Safety Information on Chemicals and Conducting Risk Assessments

For a Sustainable Future

• Performed risk assessments for 667 products to date and publicly released safety summaries for 56 substances. (https://www.jcia-bigdr.jp/jcia-bigdr/en/material/icca_material_list)

LRI*1Initiatives



• Promoted research by actively participating in the LRI program implemented by the Japan Chemical Industry Association as a member of the steering committee, planning and management task force, and research promotion panel.*2 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

Realizing Safe and Secure Water Treatment by Developing and Applying Management Technology that Helps Reduce Environmental Impact

Considering Appropriate Water Treatment Methods and Standardizing Methods for Assessing Various Process Waste Water Expelled from Works

• In light of current operating conditions, we finished considering the standardization of each Works' methods for assessing and treating effluent from new manufacturing processes. We have prepared manuals and are promoting the adoption of standardized methods at each Works.



Using Microbiota Analysis, Microbial Immobilization, and Other Proprietary Technology to Increase the Sophistication of Activated Sludge Treatment

· We perform biota analyses on activated sludge used for water treatment using molecular biology methods that employ cutting-edge equipment. Using polymerase chain reaction (PCR) in addition to biota analyses, we have worked to tie the stable operating requirements for activated sludge treatment to the biota that comprises the sludge. In addition, at some Works, we use an active sludge treatment utilizing microbial immobilization for process wastewater that contains substances that are difficult to break down through the conventional incineration methods that formerly were the only viable option. This has allowed us to stabilize water treatment and reduce treatment costs. Going forward, we will continue working to uncover and resolve relevant issues to ensure safety and stability.

Helping Create a Sustainable Society

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 54 products and technologies have been designated, with combined sales of ¥479.8 billion in fiscal 2019 (consolidated). They are projected to contribute to a collective 62 million tons CO2 equivalent reduction in greenhouse gases throughout their life cycles in fiscal 2020.*3



Improving Energy Efficiency

- Unit energy consumption in fiscal 2019 improved 16.6% compared with fiscal 2005 but worsened 2.3% year on year. (Goal: Improve unit energy consumption 15% by fiscal 2020 compared to fiscal 2005 levels (Improve 1% per year on average))
- Unit CO2 emissions from energy in fiscal 2019 improved 14.1% compared with fiscal 2005 but worsened 2.0% year on year. (Goal: Improve unit CO2 emissions from energy use 15% by fiscal 2020 compared to fiscal 2005 levels (Improve 1% per year on average))

Holding Dialogues with Internal and External Stakeholders

· Explained to internal and external stakeholders the importance of the Company helping to create a sustainable society and the Company's related measures, thereby deepening mutual understanding through dialogue.

^{*1} Long-range Research Initiative: Long-term support for research into the effects of chemical substances on human health and the environment

^{*2} Research Promotion Panel: Commissioned expert research into the development of new risk methods, assessments, and related activities; held a meeting to report on the

^{*3} This value represents the amount contributed to the reduction of greenhouse gases over the life cycles of designated products expected to be sold in fiscal 2020, based on the guidelines of the Japan Chemical Industry Association and the ICCA.

□ Responsible Care

Society



<Responsible Care (RC) Audits> Basic Stance

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

For a Sustainable Future

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 Principles and 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.

For a Sustainable Future



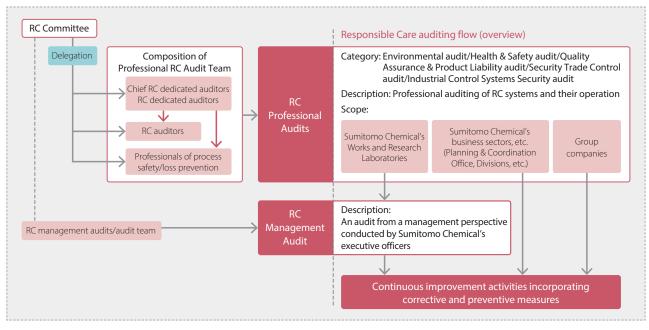
Management System

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)). 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 method for advancing corrective 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





Goals and Results

■ Responsible Care Audit Results (Sumitomo Chemical Group)

Facilities		FY2017	FY2018	FY2019
	Works	11	9	10
	Research laboratories	0	1	3
Professional audits*1	Logistics centers	0	0	0
Professional audits"	Business sectors	5	4	5
	Group companies in Japan	10	14	18
	Group companies overseas	10	13	9
	Works and research laboratories	6	6	7
Total		42	47	52

For a Sustainable Future

Note: Refer to Responsible Care Auditing Framework on page 86 for more details.

■ FY2019 Professional Audits for Facilities and Business Sectors (Sumitomo Chemical)

Area	Facilities (Works, Research Laboratories)	Business Sectors (Head Office Business Sectors)	Total
Good	23	1	24
Needs improvement	50	3	53
Needs to be examined	148	10	158
Total	221	14	235

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.

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

^{*2} Audits from a management perspective by Sumitomo Chemical officers



Basic Policy

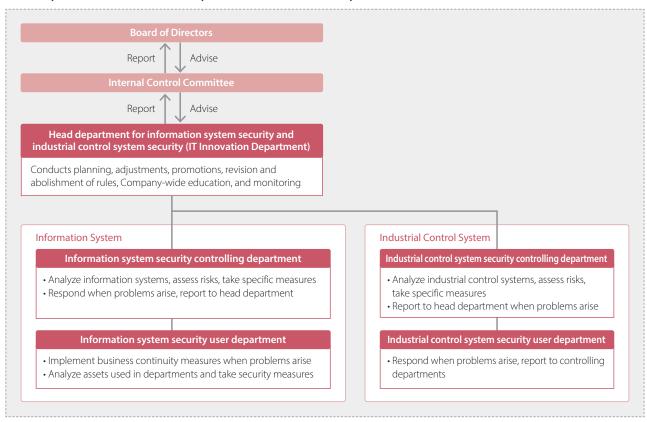
The impact of advances in the business applications of digitization, including Al and IoT, on information systems has included a rise in such negative factors as increasingly sophisticated cyberattacks. The purpose of information security is to properly manage information, prevent leaks and loss, and minimize the effectiveness of threats to data integrity. We have therefore taken an approach that is multifaceted from the organizational, systems, personnel, technological, and physical points of view.

For a Sustainable Future

Management System

Sumitomo Chemical has built the following framework for information system and industrial control system security and implements PDCA cycles.

■ Security Framework for Information System and Industrial Control System





Goals and Results

Based on the concept of an information security management system (ISMS), we established a security policy and took necessary measures.

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

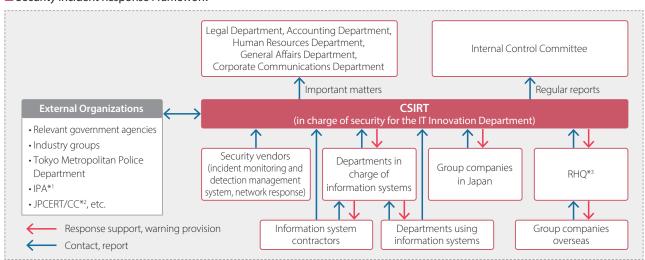
For a Sustainable Future

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	Carry out various security education programs using e-learning systems and conduct drills for security incidents	
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 Computer Security Incident Response Team (CSIRT) 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
- *3 RHQ: Regional headquarters

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.



Basic Policy

Sumitomo Chemical engages in intellectual property (IP) activities in accordance with the following basic policies:

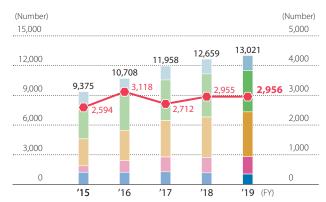
For a Sustainable Future

IP Activities:

- 1. Be in line with the business strategy
- 2. Create global business value
- 3. Strive for the thorough utilization of results of research and technology development
- 4. Respect rights and observe the law

While respecting the valid patents of third parties, we are working to acquire and protect wider, stronger, faster-registered, and longer-lasting patents globally for the results of our research and technology development, and we then strategically promote our business activities as well as those of our Group companies and ultimately maximize our business value.

■ Number of Registered Patents Held by Sector (Sumitomo Chemical) / Number of Patent Applications in Japan and Overseas (Sumitomo Chemical)



No. of registered patents held (left axis)

- Petrochemicals & Plastics Energy & Functional Materials ■ IT-related Chemicals ■ Health & Crop Sciences ■ Common
- --- No. of domestic/overseas patent applications (right axis)

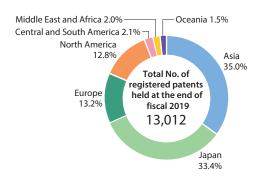
Performing IP Activities

The Intellectual Property (IP) Department is not only tasked with submitting patent applications and conducting IP prosecution, but also with making recommendations as necessary for research sectors and business sectors by properly investigating and analyzing IPs, as needed, in each stage of R&D and commercialization. Sumitomo Chemical conducts patent searches, including searches of the IP landscape at the exploratory stage of R&D projects, IP status confirmation at the initial research stage, patent clearance at the entrepreneurial development stage, and follow-ups on these searches. We actively use rapidly advancing IP search software and AI technologies to efficiently find and analyze relevant technologies suitable for each stage, as well as trends in other companies' patents. These searches help us build and reinforce our patent portfolio.

Amid increasingly complex and intensified competition, our Group businesses are globalizing, and hence it is ever more important for group companies in and outside Japan to search for and analyze IP, including patents, and to build their patent portfolios, in a manner suitable for each business's strategy and operational systems. Sumitomo Chemical carries out these activities in close contact with its business sectors and group companies in Japan and overseas. We continue to work on filing applications and acquiring rights of IP in Asia, the Americas, and the EU to fortify the foundation of our overseas business activities.



■ Registered Patents Held by Region (Sumitomo Chemical)



Joined in the "IP Open Access Declaration against COVID-19"

Sumitomo Chemical joined in the "IP Open Access Declaration against COVID-19" as a supporter in June, 2020.

For a Sustainable Future

The gist of the Declaration is that participants will not assert any intellectual property rights under certain conditions against any activities whose sole purpose is stopping the spread of COVID-19. Respecting this Declaration, the Sumitomo Chemical Group will consider ways to stop the spread of the coronavirus, including a possibility of cooperation with the government and industry groups.





Governance: Supplementary Data

1 Corporate Governance

■ Directors & Senior Management (As of July 1, 2020)

		r of attendances at Board of Directors meetings for fiscal 201
Position/Name	Ca	areer
Masakazu Tokura Chairman of the Board Birth Date: July 10, 1950 ■ 243,600 ■ 13/13 times (100%)	1974 Joined Sumitomo Chemical Co., Ltd. 2000 General Manager, Corporate Planning & Coordination Office 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)
Keiichi Iwata Representative Director & President Birth Date: October 11, 1957 ■ 112,100 ■ 13/13 times (100%)	 1982 Joined Sumitomo Chemical Co., Ltd. 2004 General Manager, Planning & Coordination Office, IT-related Chemicals Sector 2010 Executive Officer 2013 Managing Executive Officer 	2018 Senior Managing Executive Officer 2018 Representative Director & Senior Managing Executive Officer 2019 Representative Director & President (current)
Noriaki Takeshita Representative Director & Senior Managing Executive Officer Birth Date: July 23, 1958 65,800 13/13 times (100%)	1982 Joined Sumitomo Chemical Co., Ltd. 2005 Rabigh Refining and Petrochemical Company 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: Petrochemicals & Plastics Sector
Masaki Matsui Representative Director & Managing Executive Officer Birth Date: August 3, 1960 38,521 10/10 times (100%)	1985 Joined Sumitomo Chemical Co., Ltd. 2011 General Manager, Planning & Coordination Office, IT-related Chemicals Sector 2013 Executive Officer 2017 Managing Executive Officer	2019 Representative Director & Managing Executive Officer (current) Current charge : IT-related Chemicals Sector, PLED Business Planning Office, Electronic Devices Development Center
Kingo Akahori Representative Director & Managing Executive Officer Birth Date: August 2, 1957 32,500 9/10 times (90%)	1983 Joined Sumitomo Chemical Co., Ltd. 2009 General Manager, Battery Materials Division 2015 Associate Officer	2016 Executive Officer 2018 Managing Executive Officer 2019 Representative Director & Managing Executive Officer (current) Current charge: Energy & Functional Materials Sector
Nobuaki Mito Newly appointed Representative Director & Managing Executive Officer Birth Date: August 4, 1960 30,200	1985 Joined Sumitomo Chemical Co., Ltd. 2013 General Manager, Intellectual Property Dept. 2014 Associate Officer 2015 Executive Officer	2018 Director & Managing Executive Officer 2020 Chairman, Valent U.S.A. LLC (current) Chairman, Valent BioSciences LLC (current) 2020 Representative Director & Managing Executive Officer (current) Current charge: Health & Crop Sciences Sector
Hiroshi Ueda Director & Executive Vice President Birth Date: August 5, 1956 ■ 100,900 ■ 13/13 times (100%)	1982 Joined Sumitomo Chemical Co., Ltd. 2006 Director, Process & Production Technology Center 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, Intellectual Property, Responsible Care, Industrial Technology & Research Laboratory, Environmental Health Science Laboratory, Advanced Materials Development Laboratory, Bioscience Research Laboratory
Hiroshi Niinuma Director & Senior Managing Executive Officer Birth Date: March 5, 1958 78,600 13/13 times (100%)	1981 Joined Sumitomo Chemical Co., Ltd. 2009 General Manager, General Affairs Dept. 2010 Executive Officer 2013 Managing Executive Officer 2017 Outside Director, Sumitomo Seika Chemicals Co., Ltd. (current)	2018 Senior Managing Executive Officer 2018 Director & Senior Managing Executive Officer (current) Current charge: General Affairs, Legal, Sustainability, Internal Control and Audit, Human Resources, Osaka Office Administration, Corporate Communications, Procurement, Logistics
Takashi Shigemori Director & Senior Managing Executive Officer Birth Date: October 3, 1958 33,930 10/10 times (100%)	1983 Joined Sumitomo Chemical Co., Ltd. 2010 Rabigh Refining and Petrochemical Company 2012 Executive Officer 2016 Managing Executive Officer	2016 Director, Rabigh Refining and Petrochemical Company (current) 2019 Senior Managing Executive Officer 2019 Director & Senior Managing Executive Officer (current) Current charge: Corporate Planning, IT Innovation





Governance: Supplementary Data

Position/Name	Cal	reer
Koichi Ikeda Outside Director Birth Date: April 21, 1940 10 13/13 times (100%)	 1963 Joined Asahi Breweries, Ltd. 2002 Representative Director & President & COO, Asahi Breweries, Ltd. 2006 Representative Director & Chairman & CEO, Asahi Breweries, Ltd. 2010 Advisor, Asahi Breweries, Ltd. 	 2011 Outside Corporate Auditor, Sumitomo Chemical Co., Ltd. 2011 Advisor, Asahi Group Holdings, Ltd. (current) 2015 Outside Director, Sumitomo Chemical Co., Ltd. (current)
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 (present Nippon Steel Corporation) 2016 Outside Director, Japan Nuclear Fuel Limited (current) 2020 Senior Advisor, Nippon Steel Corporation (current) 2020 Outside Director, The Kansai Electric Power Co., Ir (current)
Motoshige Itoh Outside Director Birth Date: December 19, 1951 0 12/13 times (92%)	 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, Faculty of International Social Sciences Gakushuin University (current) 2016 Outside Corporate Auditor, Hagoromo Foods Corporation (current) 2018 Outside Director, The Shizuoka Bank, Ltd. (curren 2018 Outside Director, Sumitomo Chemical Co., Ltd. (current)
Atsuko Muraki Outside Director Birth Date: December 28, 1955 ■ 0 ■ 12/13 times (92%)	1978 Joined Ministry of Labour (Currently Ministry of Health Labour and Welfare) 2005 Counsellor for Policy Evaluation, Minister's Secretariat of Ministry of Health Labour and Welfare 2006 Deputy Director-General, Equal Employment, Children and Families Bureau of Ministry of Health Labour and Welfare 2008 Director-General, Equal Employment, Children and Families Bureau of Ministry of Health Labour and Welfare 2010 Director-General for Policies on Cohesive Society, Cabinet Office	 2012 Director-General, Social Welfare and War Victims' Relia Bureau of Ministry of Health Labour and Welfare 2013 Vice Minister, Health Labour and Welfare of Minisof Health Labour and Welfare of Health Labour and Welfare 2015 Retired from Ministry of Health Labour and Welfa 2016 Outside Director, ITOCHU Corporation (current) 2018 Outside Director, Sumitomo Chemical Co., Ltd. (current) 2019 Outside Director, Sompo Holdings, Inc. (current)
Kunio Nozaki Standing Corporate Auditor Birth Date: October 29, 1956 ■ 84,400 ■ 10/10 times (100%) ○ 10/10 times (100%)	1979 Joined Sumitomo Chemical Co., Ltd. 2002 General Manager, Finance & Accounting Office 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)
Hiroaki Yoshida Standing Corporate Auditor Birth Date: March 2, 1956 ■ 15,200 ■ 13/13 times (100%) ○ 14/14 times (100%)	1980 Joined Sumitomo Chemical Co., Ltd. 2012 General Manager, Planning & Coordination Office, Rabigh Project & General Manager, Planning & Coordination Office, Petrochemicals & Plastics Sector 2015 Corporate Auditor (current) 2019 Outside Auditor, Sumitomo Seika Chemicals Co., Ltd. (current)	
Mitsuhiro Aso Outside Corporate Auditor Birth Date: June 26, 1949 ■ 0 ■ 13/13 times (100%) ○ 14/14 times (100%)	1975 Prosecutor 2010 Superintending Prosecutor of the Fukuoka High Public Prosecutors Office 2012 Retirement as Prosecutor	2012 Registration of Attorneys (current) 2013 Outside Corporate Auditor, Sumitomo Chemical Co., Ltd. (current) 2019 Outside Director, Sumitomo Mitsui Trust Holding Inc. (current)
Yoshitaka Kato Outside Corporate Auditor Birth Date: September 17, 1951 0 13/13 times (100%) 0 14/14 times (100%)	1978 Registered as a certified public accountant (current) 2008 CEO of Ernst & Young ShinNihon LLC 2014 Left Ernst & Young ShinNihon LLC	 2015 Outside Corporate Auditor, Sumitomo Chemical Co., Ltd. (current) 2015 Outside Corporate Auditor, Mitsui Fudosan Co., I (current) 2016 Outside Corporate Auditor, Sumitomo Corporati (current)
Michio Yoneda Outside Corporate Auditor Birth Date: June 14, 1949 2,000 12/13 times (92%) 0 13/14 times (93%)	1973 Joined Bank of Japan 1998 General Manager, Sapporo Branch of Bank of Japan 2000 Resigned as General Manager, Sapporo Branch of 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, Grou 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)



Governance: Supplementary Data

Position/Name		In Charge	
	Marc Vermeire Managing Executive Officer	Sumitomo Chemical Europe S.A./N.V., Sumitomo Chemical Agro Europe S.A.S.	
	Keiichi Sakata Managing Executive Officer	Corporate Planning Dept.	
9	Motoyuki Sakai Managing Executive Officer	Sumitomo Chemical Asia Pte Ltd	
	Yoshiaki Oda Managing Executive Officer	Corporate Planning Dept., Intellectual Property Dept.	
	Soji Sakamoto Managing Executive Officer	Basic Materials Div., Industrial Chemicals Div., Resin-related Business Development Dept., Polyolefins Div., Automotive Materials Div.	
	Yoshihiro Miyoshi Managing Executive Officer	Digital and Data Science Innovation Dept., Process & Production Technology & Safety Planning Dept., Production & Safety Fundamental Technology Center, Responsible Care Dept.	
	Seiji Takeuchi Managing Executive Officer	Planning & Coordination Office, Petrochemicals & Plastics Sector, Responsible Care Dept., Petrochemicals & Plastics Sector, PetroChemicals Research Laboratory	
	Naoyuki Inoue Managing Executive Officer	Rabigh Refining and Petrochemical Company	
	Yasuaki Sasaki Managing Executive Officer	Inorganic Materials Div., Advanced Polymers Div.	
	Keigo Sasaki Managing Executive Officer	Accounting, Finance, Corporate Communications Dept.	
0	Kenji Ohno Managing Executive Officer	General Affairs Dept., Legal Dept., Sustainability Dept., Internal Control and Audit Dept.	
	Andrew Lee Executive Officer	Valent U.S.A. LLC, Valent BioSciences LLC	
	Shinichiro Nagata Executive Officer	Ehime Works	
	Yoshizumi Sasaki Executive Officer	Resin-related Business Development Dept., Polyolefins Div, Automotive Materials Div.	
	Ichiro Kosaka Executive Officer	Planning & Coordination Office, Energy & Functional Materials Sector, Specialty Chemicals Div.	

Po	sition/Name	In Charge
1	Masaya Naito Executive Officer	Procurement Dept., Logistics Dept.
	Takanari Yamaguchi Executive Officer	PLED Business Planning Office, Planning & Coordination Office, IT-related Chemicals Sector, Optical Materials Div.
	Akira Iwasaki Executive Officer	Planning & Coordination Office, Energy & Functional Materials Sector
	Hirokazu Murata Executive Officer	Oita Works, Misawa Works
	Isao Kurimoto Executive Officer	Research Planning and Coordination Dept., Digital and Data Science Innovation Dept., Industrial Technology & Research Laboratory
	Koichi Ogino Executive Officer	Chiba Works
	Kimitoshi Umeda Executive Officer	AgroSolutions Div. – International, Environmental Health Div.
	Inho Rha Executive Officer	Dongwoo Fine-Chem Co., Ltd
	Akira Nakanishi Executive Officer	Planning & Coordination Office, IT-related Chemicals Sector, Quality Assurance Office, IT-related Chemicals Sector
	Masao Shimizu Executive Officer	Human Resources Dept., Osaka Office Administration Dept.
	Hiroaki Fujimoto Executive Officer	AgroSolutions Div. – Japan
9	Kanako Fukuda Executive Officer	Sumitomo Chemical Europe S.A./N.V.
	Juan Ferreira Executive Officer	Sumitomo Chemical do Brasil Representações Ltda
	Hiroyoshi Mukai Executive Officer	Planning & Coordination Office, Health & Crop Sciences Sector, Quality Assurance Office, Health & Crop Sciences Sector



Governance: Supplementary Data

2 Compliance

■ FY2019 Number of Reports through the Internal Reporting System (Speak-Up Reporting System) (Sumitomo Chemical Group*)

	Number of Reports
Number of reports through the Internal Reporting System	151

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

FY2019 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 anticorruption legislations	0
Significant violations of laws or regulations in the social and economic area besides those mentioned above	0

3 Tax Transparency

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.





Environmental Activity Goals and Results

For a Sustainable Future

				Goal achieved or steadily progre	ssing:) Goal n	ot achieved: △
I	tems	Boundary	Goals	Fiscal 2019 Results	Evaluation	Page
Addressing Greenhouse Climate gas emissions			Reduce 30% compared to fiscal 2013 levels by fiscal 2030	Reduced 24% relative to fiscal 2013		
Change	Scope 1+2*1	Consolidated	Reduce more than 57% compared to fiscal 2013 levels by fiscal 2050		0	
	Scope 3*2	Sumitomo Chemical's major suppliers* ³	Reduce overall GHG emissions by fiscal 2024 Conduct engagement to set goals	Held supplier briefings in Tokyo and Osaka	0	Pages 99–109
	Unit energy consumption*4	Sumitomo Chemical Group Consolidated	Improve more than 3% over the three years of the Corporate Business Plan (fiscal 2019–2021)	Increased 3% relative to fiscal 2018	Δ	99-109
	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	Δ	

Note: Further details on goals based on the Act on the Rational Use of Energy and results are provided in the supplementary data (pages 119–120).

^{*1} Scope 1: Direct emissions from factory operations, such as fuel use in manufacturing 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} Covers suppliers accounting for 90% of procured raw materials and other items based on weight

^{*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



Environmental Activity Goals and Results

Goal achieved or steadily progressing: \bigcirc Goal not achieved: \triangle

14	ems	Boundary	Fiscal 2019 Goals	Fiscal 2019 Results	Evaluation	ily progressing: Goal not ac Fiscal 2020 Goals	_
- 10	ems	Boundary	FISCAI 2019 GOAIS	FISCAI 2019 Results	Evaluation	FISCAI 2020 GOAIS	Page
Environmental Protection	Severe environ- mental accidents	Sumitomo Chemical and consolidated subsidiaries in Japan and overseas	0	0	0	Severe environmental accidents = 0	
	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 Diet.	0	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 and the Soil Contamination Countermeasures Act	0	Provide individual support to Group companies for responding to environmental regulations	
	Prevention of air and water pollution	Sumitomo Chemical	Meet voluntary management criteria* ¹	There was one instance of the legal standard limit being exceeded and another instance where a limit agreed upon with a municipality was exceeded. We have investigated the causes and taken countermeasures.	Δ	Meet voluntary management criteria	-
	Effective use of water resources	Sumitomo Chemical	Promote effective and efficient use of water resources	Water usage rose by 5.5% relative to fiscal 2018		Promote effective and efficient use of water resources	
		Group companies overseas	Improve unit water consumption by at least 1% on average per year	Unit water consumption worsened by 0.5% relative to fiscal 2015	Δ	Improve unit water consumption by at least 1% on average per year	
	Response to PRTR	Sumitomo Chemical	Maintain 60% lower total emissions relative to fiscal 2008	Reduced emissions by 89.9% relative to fiscal 2008		Maintain 60% lower total emissions relative to fiscal 2008	
		Sumitomo Chemical and Group compa- nies in Japan	Maintain total emissions of air and water pollutants at below fiscal 2015 levels to fiscal 2020	Reduced emissions by 20.2% relative to fiscal 2015	0	Maintain total emissions of air and water pollutants at below fiscal 2015 levels to fiscal 2020	Pages
	Reduction of VOC emissions	Sumitomo Chemical	Maintain VOC emissions reductions at 30% relative to fiscal 2000	Reduced emissions by 55.0% relative to fiscal 2000	0	Maintain VOC emissions reductions at 30% relative to fiscal 2000	Pages 110–118
	Prevention of soil and groundwater contamination	Sumitomo Chemical and Group compa- nies in Japan	Keep hazardous materials strictly within Company premises*2	Continued to keep hazardous materials strictly within Company premises	0	Keep hazardous materials strictly within Company premises	•
	Prevention of ozone layer depletion	Sumitomo Chemical and Group compa- nies 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	0	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	
	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	0	Ensure compliance with "Sumitomo Chemical's Commitment to the Conservation of Biodiversity"	
	Reduce the amount of	Sumitomo Chemical	Maintain 80% reduction compared to fiscal 2000 levels	Reduced by 94.0% relative to fiscal 2000	0	Maintain 80% reduction compared to fiscal 2000 levels	•
	industrial waste sent to landfills	Sumitomo Chemical and Group compa- nies in Japan	Maintain waste volume at below fiscal 2015 levels to fiscal 2020	Reduced by 4.3% relative to fiscal 2015	0	Maintain waste volume at below fiscal 2015 levels to fiscal 2020	
	Properly treated PCB waste	Sumitomo Chemical and Group compa- nies in Japan	(High concentrations of PCB*3) Work toward appropriate storage and recovery of waste containing high concentrations of PCBs and complete PCB waste treatment at an early stage	(High concentrations of PCB) Sumitomo Chemical: Continuing treatment Group companies in Japan: Continuing treatment; continued 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*4) Work toward appropriate storage and recovery of waste containing minute amounts of PCBs and complete PCB waste treatment by March 2025	(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	0	(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 121-139).

^{*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.

^{*3} High concentrations of PCB: Polychlorinated biphenyl (PCB) intentionally used as insulation oil in such items as electric appliances

^{*4} Minute amounts of PCB: PCB unintentionally mixed in as insulation oil in such items as electric appliances (over 0.5 mg/kg)

Addressing Climate Change

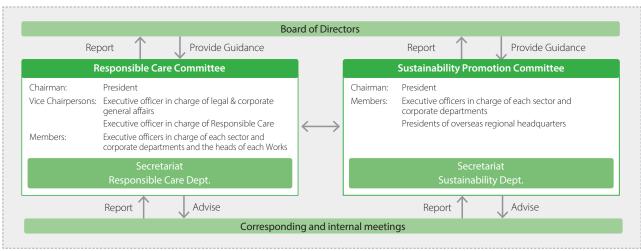
Basic Stance

The Sumitomo Chemical Group considers climate change one of the most pressing challenges facing society. To address this problem, we are actively working to reduce greenhouse gases by utilizing the technology we have cultivated as a diversified chemical company. We are also taking action to respond to risks and to seize opportunities related to solving climate changerelated problems that are having a major impact on people's lives on a global scale.

Management System

The president and the executive officer in charge of Responsible Care are both charged with ensuring that the Group is addressing climate change. Key matters are regularly discussed at Sustainability Promotion Committee Meetings (refer to page 80) and Responsible Care Committee Meetings (refer to page 34), which are Company-wide committees where the relevant measures to take are determined. The Responsible Care Committee also assesses and monitors risks related to climate change issues. The content of these meetings is reported to the Board of Directors as appropriate.

■ Organization of Addressing Climate Change



A wide range of specific issues related to energy and greenhouse gases are taken up for detailed discussion at Companywide 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 greenhouse gases for Works, research laboratories, business sectors, and Group companies.

Meeting	Coordinator	Members	Content
Company-wide SBTs GM Meeting	Managing executive officer (Responsible Care manager)	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
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	Managing executive officer (Responsible Care manager)	Managers in charge of climate change action for Group companies	Sharing Group policies and issues and promoting best practices



🖈 : Assured by an independent assurance provider

Society

Goals and Results

For goals and results for Addressing Climate Change, refer to Environmental Activity Goals and Results.

P.97 Addressing Climate Change

■ Energy Consumption and Greenhouse Gas Emissions

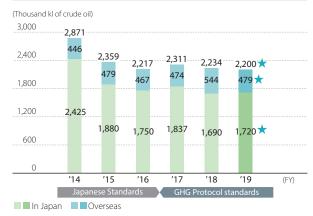
The Group's greenhouse gas emissions for fiscal 2017 onward are calculated in accordance with the GHG Protocol (refer to page 209 "Calculation Standards for Environmental and Social Data Indicators"). The boundary of calculation has been expanded to include principal consolidated Group companies, which account for up to 99.8% of consolidated net sales.

Greenhouse Gas Emissions *

Greenhouse Gas Emissions	(Thou	sand tons of CO2e)	
	Sumitomo Chemical and Overseas Group Companies in Japan Compa		Total
Scope1	5,673	496	6,169
Scope2	288	759	1,048
Total	5,962	1,255	7,217

Note: Biomass-derived emissions were 52,000 tons of CO2e

Energy Consumption



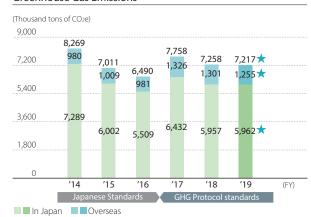
Notes: • Japanese Standards: Calculated based on the Act on the Rational Use of

· 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.

Unit Energy Consumption Index



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: CO2 emissions from energy sold to external parties by the Group (the portion attributable to energy provider subsidiaries was included prior to fiscal 2016); CO2 emissions from energy use attributable to Sumitomo Chemical's non-production sites; CO2 emissions from non-energy sources not included in the scope of the Act on Promotion of Global Warming Countermeasures. CO2 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.
- Due to two overseas subsidiaries significantly changing the CO2 conversion coefficient of their electric power seller from the one used in the previous fiscal year, overseas emissions in fiscal 2019 were around 93,000 t-CO2e lower than if they had used the same coefficient.

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)

★: Assured by an independent assurance provider

Status of Scope 3 GHG Emissions

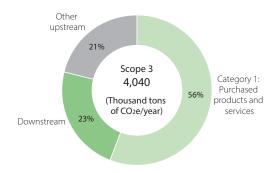
Sumitomo Chemical Sustainability Data Book 2020

(Thousand tons of CO2e/year)

Category		Emissions			
Category	FY2017	FY2018	FY2019		
1. Purchased goods and services	1,985	2,132	2,276★		
2. Capital goods	111	394	151		
3. Fuel- and energy-related activities not included in Scopes 1 and 2	290	298	581★		
4. Upstream transportation and distribution	57	61	60★		
5. Waste generated in operations	28	30	35★		
6. Business travel	7	7	10		
7. Employee commuting	8	9	11		
8. Upstream leased assets	<1	<1	<1		
9. Downstream transportation and distribution	<1	<1	<1		
10. Processing of sold products	_	_	_		
11. Use of sold products	44	44	40★		
12. End-of-life treatment of sold products	945	780	879		
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 Dainippon Pharma Co., Ltd.; Koei Chemical Co., Ltd.; Taoka Chemical Co., Ltd.; and Tanaka Chemical Corporation).
- $\bullet \, {\sf Category} \, {\sf 4} \, {\sf does} \, {\sf not} \, {\sf include} \, {\sf Taoka} \, {\sf Chemical} \, {\sf Co., Ltd., but} \, {\sf includes} \, {\sf Nippon} \, {\sf A} \, \& \, {\sf LInc.}
- Category 11 figures are N2O converted into CO2





Examples of Initiatives

For a Sustainable Future

Strategy: Addressing Risks and Seizing Opportunities

We set up an organization dedicated to addressing climate change in the Responsible Care Department. This organization identifies risks and opportunities that climate change issues present to the Sumitomo Chemical Group over a medium to long term and analyzes their magnitude and the scope of their impact on the Group. As for risks, we are mainly taking measures to achieve our Science Based Targets (SBTs), while as for opportunities, we are primarily focusing on the development and promotion of our Sumika Sustainable Solutions (SSS)-designated products and technologies. The progress of our specific measures is reported in management meetings, meetings of the Sustainability Promotion Committee, the Responsible Care Committee, the Plant Manager's Meeting, and Group President Meeting. In addition, to ensure that each effort continues to progress steadily, we hold various meetings that engage our plants, laboratories, business sectors, and Group companies.

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 **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 for achieving our SBTs
 - Revision of 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
 - Introduction of innovative low-carbon technologies
 - Initiatives for raising awareness and building momentum in the
- 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



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. The Sustainability Promotion Committee currently leads our scenario analysis initiative. We will continue to work on climate change issues by closely monitoring anticipated new changes in the business environment, while also taking a two-front approach of addressing risks and seizing opportunities.

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■ Summary of the Scenario Analysis

			■ In blue: positive impact ■ In red: negative impact		
Scenario	Risks and Opportunities	Anticipated Situation (example)	Impact Assessment		
all scenarios*1	Increasing demands for disclosure of	• Expansion of ESG investment	 Increased opportunity to get access to ESG investment capital by e nhancing information disclosure 		
	information	 Increased demands for disclosure of the results of life cycle assessment 	 Improved rating in stakeholder assessments with regard to the disclosure of the amount of GHG emissions reduction calculated by life cycle assessment 		
		 Legalization of disclosure of climate change-related information, and introduction of new environmental accounting standards 	● Increased cost of compliance		
2°C scenario (reduced GHG emissions)	Increased demand for products and technologies	 Increasing investment and growing market for products and technologies contributing to the reduction of GHG emissions and for products and technologies related to recycling 	 Increased demand for SSS-designated products Increasing need for technological development for future SSS-designated products 		
	contributing to the mitigation of climate change	(Examples) Growing markets for EVs and fuel cell vehicles (2020 to 2050) Growing market for components and materials for highefficiency communication, due to change in consumer behavior (including expansion of the sharing economy and more efficient logistics with the use of IT) Expansion of CCUS*2 (2030 onward) Expansion of the circular economy, with the aim of reducing CO2 derived from fossil fuels (2020 to 2050)	(Examples) Components and materials for EVs and fuel cell vehicles Electronic components and materials for more sophisticated IT devices and for energy saving Products and technologies for CO2 recovery, on the back of the expansion of CCUS Recycling related products and technologies		
		 Expansion of the switch to low-carbon energy sources 	 Increased demand for related products and technologies due to wider use of dispersed power systems and increased demand for semiconductor control devices Increased utility costs due to an increased ratio of renewable energy in energy mix 		
	Introduction of carbon prices	 Higher carbon prices (in developed countries, 100 USD/ton for 2030, 140 USD/ton for 2040)*3 	• Increased operation costs due to higher energy taxes including carbon prices (Assuming that the Group's total GHG emissions for fiscal 2040 is 7.2 million tons/year, the same level as for fiscal 2019, and the carbon price is 10 thousand to 14 thousand yen/t-CO2, the operation costs will increase by 72 to 101 billion yen/year.)		
	Increased regulation on GHG emissions	 More reduction of CO2 emissions and making energy-saving performance mandatory 	 Lower utilization of high-energy consumption production facilities 		
		 Phased abolishment of subsidies for fossil fuels (in India and Southeast Asia) 			
		 Accelerating transition to a circular society and increased regulation 			
	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 	 More difficult to procure raw materials Lower profitability of the existing businesses 		
4°C scenario (business as usual)	Increased demand for products and technologies	 Growing market for crops resistant to environmental changes such as temperature rise and drought Spread of infectious diseases due to the impact of climate 	 Increased demand for SSS-designated products Increased need for technological development for future SSS-designated products 		
	contributing to the mitigation of climate change	change	 (Examples) Agrochemical products adaptable to the change in crop growth Biorationals and soil conditioners Increased demand for agents for prevention and treatment of infectious diseases 		
	Intensified climate disasters	More impact on plant operations	 Facilities located on seashores and river banks cease operations 		
	due to temperature rise	Rising sea level, damage from storm surges and floods, and heat waves	Decreased cost competitiveness of plants due to increased costs for measures to be prepared for disasters		
		 Damage to farmland due to droughts and soil degradation 	 Decreased demand due to lower agricultural productivity 		

^{*1} Common for all scenarios: Situations that can be expected in both 2° C scenario (reduced GHG emissions) and 4° C scenario (business as usual)

^{*2} CCUS: Carbon dioxide capture, utilization and storage.

^{*3} Assumptions based on the "World Energy Outlook (WEO) 450 Scenario" published by the International Energy Agency (IEA), a scenario that is in line with the 2°C target under the Paris Agreement.

For a Sustainable Future

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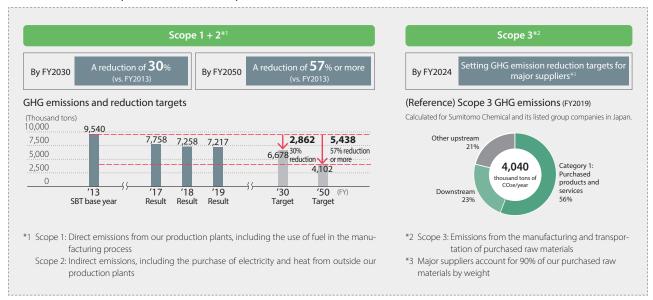
Initiatives Toward Achieving Science Based Targets (SBTs)

Sumitomo Chemical has identified major risks of climate change problems impacting the Group's businesses. These include a cost increase in the event that countries around the world introduce carbon pricing or raise the price for carbon, as well as damage to its production facilities due to intensified climate disasters caused by a rise in temperature. To address these risks, we are taking various group-wide measures to help mitigate climate change. For example, in October 2018, we at the Sumitomo Chemical Group were certified by the Science Based Targets (SBT) initiative for our targets for the reduction of greenhouse gas (GHG) emissions, becoming the first diversified chemical company to receive this certification. Toward the achievement of these targets, we have included the Group's Scope 1+2 GHG emissions in our KPIs. We are also working on various initiatives, such as switching to LNG fuel for our plants, employing the latest highly efficient equipment, and cutting back on energy consumption across the board. In addition, in order to reduce Scope 3 emissions, we have launched an engagement effort with our major suppliers to ask them to set their own reduction targets.

Our Sustainability Promotion Committee and Responsible Care Committee oversee these efforts and their progress.

GHG Emission Reduction Targets Certified as SBTs

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



Contributing to Reducing GHG Emissions by Switching Fuel for Thermal Power Generation— Establishment of Niihama LNG Co., Ltd.

In April 2018, Sumitomo Chemical established Niihama LNG Co., Ltd. with Tokyo Gas Engineering Solutions Corporation, Shikoku Electric Power Co., Inc., Sumitomo Joint Electric Power Co., Ltd., and Shikoku Gas Co., Ltd. Niihama LNG's main business is to supply gas to the premises of our Ehime Works, and to a new liquefied natural gas-based thermal power plant, to be built by Sumitomo Joint Electric Power. Construction is in progress, with the start of operations scheduled for February 2022. By partnering with these companies, Sumitomo Chemical will work to promote and expand the use of natural gas, which can contribute to reducing GHG emissions, while also promoting stable and efficient use of energy.

Supplier Engagement—Briefing Session

In November 2019, we held a briefing session for about 30 major suppliers of ours in Japan to present our initiatives toward achieving our SBTs, and to ask our suppliers to set their own GHG emission reduction targets. Going forward, we will organize follow-up meetings and briefing sessions with our suppliers individually, with the aim of having their reduction targets set by fiscal 2024.



□ Addressing Climate Change

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Promoting Sumika Sustainable Solutions

Through the initiative of Sumika Sustainable Solutions, which began in 2016, the Group has been working to develop and promote its products and technologies that help mitigate climate change*1 and facilitate adaptation to climate change.*2 (refer to page 36.)

- *1 Reducing and absorbing greenhouse gases
- *2 Working to stem or lessen the current effects of climate change as well as harnessing the new climatic conditions

For a Sustainable Future

Sumika Sustainable Solutions

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



Measures for Adaptation

Understanding that climate change must be addressed, people are paying more attention to the development of products and technologies that can facilitate adaptation to the changes. Under the banner of Sumika Sustainable Solutions, the Sumitomo Chemical Group has certified many of its products and technologies that promote adaptation. These include vector control products (to ward off infectious disease-carrying pests whose spread correlates with climate change), mycorrhizal fungi for use as a soil amendment product (to extend growing periods during droughts by 30% and improve crop yields), and clear acrylic windows for seawalls that protect against high tides and tsunami.

Of these products, the Company's malaria prevention mosquito net Olyset™ Net was introduced as a tool for helping prevent a rise in malarial infections due to climate change on the side event of COP22, which was held in Morocco in November 2016, and on the side event of COP23, which was held in Germany in November 2017. It was also introduced at Japan's Ministry of the Environment's Climate Change Adaptation Information Platform, Japan's Ministry of Economy, Trade and Industry's Climate Change Adaptation Good Practices by Japanese Private Sector, and other venues.

Japan's Ministry of the Environment's Climate Change Adaptation Information Platform



Japan's Ministry of Economy, Trade and Industry's Climate Change Adaptation Good Practices by Japanese Private Sector

http://www.adaptation-platform.nies.go.jp/en/lets/adaptationbiz/sumitomokagaku.html

Initiatives Aimed at Reducing Greenhouse Gas Emissions at Each Worksite

For a Sustainable Future

Each Sumitomo Chemical worksite helps reduce greenhouse gas 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 where finding ways to save energy is difficult and requires a high level of expertise, we have launched initiatives in cooperation with experts. Information on the state of these activities is exchanged at Energy Manager Meetings, at which representatives from each worksite gather in one location to work on reducing the greenhouse gas emissions of the Company as a whole.

Osaka Works: Shifting to LED

The Osaka Works is working to conserve energy by actively installing more LEDs. In the Eco-First Commitments (refer to page 83), promoting the installation of LED lighting at worksites is given as an example of a way to reduce greenhouse gas emissions (CO₂) through energy conservation, and this effort will contribute to that end goal.

By fiscal 2019, the Osaka Works had upgraded around 78%, or 14,400, lights to LEDs. This is the highest rate among all the worksites, which average 48%. Due to the complex nature of the worksite, it is difficult for the Osaka Works to carry out unified energy conservation initiatives. However, the Works will continue shifting to LED lighting going forward as a major initiative with far-reaching effects on both the Works and research.



Example of LEDs at the Works: Upgrading the lighting of the gym at the Works

Electrolysis Plant: Achieving Benchmarks* (FY2018, FY2019)

The electrolysis plant electrically breaks down saltwater into chlorine, hydrogen, and caustic soda. The Act on Rational Use of Energy prescribes an industrial top runner program (benchmark program).

The production efficiency of the plant is better with the higher the temperature of the electrolysis tank, and the raw material salt water is heated using steam before being fed into the tank. To make operations more energy-efficient, we monitor production efficiency and the amount of energy used to heat salt water to determine the optimal operating conditions. We have changed to a control method that further enhances the collection of excess heat, maintains the minimum necessary temperature for the electrolysis tank, and uses steam only for the minimum amount of heating needed. Thanks to our persistence, we have achieved our benchmarks for two consecutive years (fiscal 2018 and 2019).

^{*} A benchmark is an energy conservation standard that operators in specific industries and fields should achieve over the medium to long term. This makes it clear whether one company's energy conservation level is greater or less than that of its competitors. Those with a greater level receive more favorable ratings, and those lagging behind are encouraged to ramp up their efforts. The level achieved by only 10% to 20% of operators overall in each industry is set as the standard that operators should aim for (the target level in soda operations is 3.22 GJ/T or less).

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Responsible Care Department, Ehime Works Methionine Plant and Electrolysis Plant Acquiring Certification for the Energy Management System (ISO 50001: 2018)

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On February 10, 2020, Sumitomo Chemical's Responsible Care Department and the Ehime Works methionine plant and electrolysis plant acquired certification for their energy management systems (ISO 50001: 2018). The registration certificate was awarded on February 17, 2020.

With the fiscal 2013 level as the index, the Company is aiming to reduce its organizational greenhouse gas (GHG) emissions 30% by fiscal 2030 and at least 57% by fiscal 2050. These targets were announced internally and externally and their certification as Science Based Targets (SBTs) was acquired in October 2018.

At the two plants at the Ehime Works, a significant consumer of energy, and relevant departments of the Head Office, we constructed energy management systems, began operating them, and eventually acquired certification for them. This was done as the first step in promoting PDCA cycles for specific reduction processes as an organization. Going forward, our policy is to actively promote these management systems as a tool to achieve our SBTs.

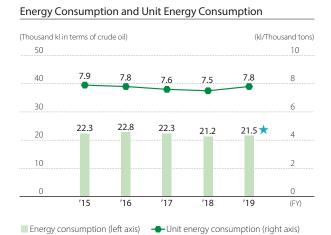


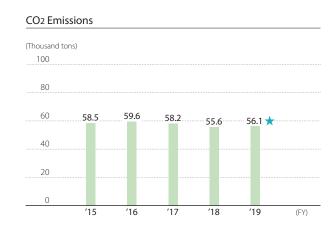
Left: Mr. Kazuo Tatsukami, President of Audit and Certification Organization JACO Right: Yoshihiro Miyoshi, Managing Executive Officer of Sumitomo Chemical Co., Ltd.

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 2019, energy consumption (crude oil equivalent) increased compared with fiscal 2018 due to the rise in long-distance shipping by chemical tankers in response to the scheduled maintenance and repair of Works despite there being no significant change in the volume of cargo transported. As a result, unit energy consumption rose 3.6%, for an average 0.5% improvement over the past five years. 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)





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

☐ Addressing Climate Change

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The BioCarbon Fund*

Sumitomo Chemical finances afforestation projects in developing countries and poverty-stricken countries through the World Bank's BioCarbon Fund. These projects are geared to contribute to the restoration of abandoned land, the conservation of water resources, biodiversity conservation, and the reduction of greenhouse gases. Since participating for the first time in 2005, Sumitomo Chemical has been involved in multiple afforestation projects, which have led to a combined total of 229 thousand tons in reductions in CO₂ emissions.

For a Sustainable Future

This fund was established by the World Bank to finance projects to plant trees and preserve forests with the objective of acquiring CO₂ credits (emissions rights issued based on the volume of CO₂ reduced or absorbed as a result of projects designed to reduce greenhouse gases).

R&D Initiatives for Addressing Climate Change

One of the basic policies established by Sumitomo Chemical under the Corporate Business Plan (FY2019–2021) is accelerating the development of next-generation businesses. One priority area of that policy is reducing environmental impact. Sumitomo Chemical has identified energy storage, energy conservation, and carbon recycling as areas of strength that are indispensable to helping solve climate change problems and for which the Company can use the technologies it has cultivated to date

In the field of energy storage, we are developing next-generation batteries and fully solid state battery materials that help reduce greenhouse gas emissions. In the field of energy conservation, we strive to develop water treatment processes with low environmental impact and CO₂ separation membranes to enhance energy efficiency. In the field of carbon recycling, we are currently working to develop bioprocesses that use synthetic biology and chemical production processes that use carbon capture and utilization (CCU).

As an initiative to ensure next-generation energy, we are conducting a survey related to CO₂-free hydrogen manufacturing technologies that do not emit CO₂ during the manufacturing stage and their effective implementation.

In these fields, we are promoting research and development while actively installing external technologies in collaboration with academia and startup companies.

Moreover, Sumitomo Chemical newly established a Research and Development (R&D) Group, named "Technological Development Group of Environmental Initiatives" in the Petrochemicals Research Laboratory (Sodegaura City, Chiba) on April 1, 2020. The new R&D group's mission is to develop a process to reduce environmental impact by making the best use of core technologies, including catalyst design and chemical processing design, which the company has cultivated in the Petrochemical & Plastic business. By concentrating research projects currently dispersed across several research laboratories into the Petrochemicals Research Laboratory and by beefing up the number of researchers to about 30, Sumitomo Chemical will accelerate its development exponentially while also focusing on new projects. In addition, the new R&D group will actively collaborate with academia and companies that have advanced technologies, and promote activities to make environmental impact reduction technology into a new business in the Petrochemicals & Plastics Sector.

Sumitomo Chemical has identified environmental impact mitigation as one of the material issues to be addressed by its management. The company will continue to create solutions for social issues, such as carbon cycling technology and greenhouse gas emission reduction technology.

■ Examples of development projects at the new R&D group

- Polyolefin manufacturing technology using waste-derived ethanol as a raw material
- Chemical recycling technology for waste plastics
- Chemicals manufacturing technology using CO2
- Innovative energy-saving technology for chemical manufacturing processes
- Development of energy-saving wastewater processing systems

^{*} BioCarbon Fund:

□ Addressing Climate Change

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External Evaluations

Sumitomo Chemical was selected for the A List, the highest evaluation, in the CDP's climate change action survey for the second consecutive year. (January 2020)



Sumitomo Chemical was ranked first among 37 chemical companies in Japan in the 10th Corporate Climate Action Survey by the World Wide Fund for Nature Japan (WWF Japan), under the materials industry section. (May 2019) (Japanese only)



The Japan Chemical Industry Association awarded the Sumitomo Chemical Group the Examiner's Special Award at the 13th JCIA Responsible Care Awards (Japanese only) for the Group's initiatives aimed at realizing a low-carbon society (June 2019) and 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).

Looking Ahead

The Sumitomo Chemical Group will continue actively working to solve climate change problems using the technological capabilities it has cultivated as a diversified chemical company.



For a Sustainable Future

Basic Stance

The Sumitomo Chemical Group is working in unison to reduce its environmental impact. Specifically, we have set out goals in each field, including protecting the atmosphere and aquatic environments, conserving resources and managing waste, properly managing chemical substances, protecting biodiversity, and protecting soil environments. Each worksite and Group company is striving to enhance its initiatives aimed at achieving these goals.

Over the course of the three years of the current Corporate Business Plan (FY2019–2021) we aim to continue strengthening and enhancing our initiatives based on voluntary control and further enhance the level of activity undertaken by the consolidated Group. We also strive to more accurately and quickly disclose environmental performance indicators.

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 low-GWP HFCs or non-fluorocarbon refrigerants (Ozone Layer Protection Law). We are also minimizing fluorocarbon leaks into the atmosphere from refrigeration and air conditioning equipment. (Act for Rationalized Use and Proper Management of Fluorocarbons)
- (4) We will systematically remove all electronic equipment that uses PCBs (in storage or in operation) by 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.

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) 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. The department also establishes targets (details of the amendments, possible impacts, visualization of countermeasures, etc.) that all people addressing the problems can work towards and commits 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.80 Organization of Responsible Care

□ Environmental Protection



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Goals and Results

For a Sustainable Future

The Sumitomo Chemical Group has established key environmental protection items as common goals. By following up on the results of each company, we are working to reduce our environmental impact in a systematic way. P.98 Environmental Protection

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.121–123 FY2017–2019 Environmental Performance

FY2019 Primary Environmental Performance (Sumitomo Chemical and Group companies in Japan)

INPUT Energy and Resources					
		(/)	/lillion tons)		
	Industrial water	63.4	60.4		
	Drinking water, etc.	0.8	0.5		
	Seawater	918.2	180.9		
	Groundwater	21.8	19.1		
Water ★	Other water	2.2	2.2		



of crude oil

	housand kl)	
Fuel, heat, and electricity*1	1,720	1,054



Exhaustible Resources

	(Inousand tons		
Hydrocarbon compounds	1,829	1,545	
Metals (excluding minor metals)*2	109	105	
Minor metals*3	11.20	0.02	

PCB/CFCs under Secure Storage

No. of electrical devices containing high concentrations of PCBs*4	13 units	4 units
PCB volume*4	0 kl	0 kl
No. of refrigeration units using specified CFCs as a coolant	32 units	11 units
No. of refrigeration units using HCFCs as a coolant	260 units	110 units

Figures in green: Sumitomo Chemical

Figures in black: Sumitomo Chemical and Group companies in Japan

OUTPUT Product Manufacturing and Environmental Impact



	(1110030	na tons,
(Calculated on the basis of ethylene production)*5	2,521	1,411

Water

Pollutant Emissions *

		(Tons)
Coastal waters/waterways	887	816
Sewer systems	197	112
Coastal waters/waterways	30.5	28.1
Sewer systems	4.7	4.2
Coastal waters/waterways	1,457	1,377
Sewer systems	53.3	36.5
subject to the PRTR Act	8.0	6.4
	Sewer systems Coastal waters/waterways Sewer systems Coastal waters/waterways	Sewer systems 197 Coastal waters/waterways 30.5 Sewer systems 4.7 Coastal waters/waterways 1,457 Sewer systems 53.3



(Thousand			
Waste emissions*6	232	50	
Landfill*6	22.0	1.5	
(Breakdown)			
On-site landfill	0	0	
External landfill	22.0	1.5	



(Thousand tons of CO26					
Greenhouse gases (seven gases)*1	5,962	3,544			
Emissions from energy use (CO2)	5,209	2,903			
CO2 emissions from other than energy use	659	622			
N2O	89	15			
HFC	4	4			
CH4, PFC *7 SF6, NF3					

		(Tons
Others		
NOx	4,208	1,754
SOx	4,621	1,490
Soot and dust	192	101
Substances subject to the PRTR Act	438	240

- *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 209 "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 CO2 emissions; amount of energy used by Sumitomo Chemical and Group companies in Japan non-production sites and the resultant CO2 emissions; CO2 emissions from non-energy sources not included in the scope of the Act on Promotion of Global
- *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.
- *7 In reference to the Act on Promotion of Global Warming Countermeasures, companies that emit less than 3,000 tons of CO2-equivalent per year for each type of greenhouse gas are outside the scope of calculation.

Society



Examples of Initiatives

For a Sustainable Future

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 from boilers, leaks of fluorocarbons from refrigeration equipment, emissions of mercury from industrial waste incinerators, emissions of chemicals and VOCs from manufacturing plants, and airborne asbestos from the demolition of buildings.

1. 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.

* Particulate matter of up to 2.5 µm in diameter

2. Managing Fluorocarbon Refrigeration Equipment

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 global warming potential (GWP) or non-fluorocarbon refrigerants. Our goal is to complete these upgrades within the upgrade deadlines for the equipment.

Upgrade Deadlines for Each Type of Equipment

- CFC equipment: Eliminate use of these units by fiscal 2025 (currently a total of 32 units held by the Group)
- HCFC equipment: Eliminate use of these units by fiscal 2045 (currently a total of 260 units held by the Group)

We aim to dutifully adhere to this plan, which, in line with the Act for Rationalized Use and Proper Management of Fluorocarbons, includes regularly examining the fluorocarbons used in industrial refrigeration and air conditioning equipment, devising ways of minimizing leaks identified in equipment designated as needing attention based on leakage history categorized by equipment type, as well as taking thorough, swift action once problems related to equipment installation are uncovered.

3. 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.

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Society

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.

For a Sustainable Future

1. 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 some Works, for process wastewater that is difficult to break down 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.

2. 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.

3. Promoting the Effective Use of Water

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.

■ Water Usage (Sumitomo Chemical Group)

(Million tons) FY2017 FY2018 FY2019 1,033 1,014 Sumitomo Chemical Group 944 (Breakdown 1) Sumitomo Chemical 267 249 263* 759 743* Group companies in Japan 688 Overseas Group companies 7.40 7.19 7.34 (Breakdown 2) Seawater 930 848 918 Fresh water 103 96.0 95.4

Note: Water usage volume includes seawater



Evaluating Water-Related Problems

The Sumitomo Chemical Group is evaluating water-related risks at each production base from the perspective of water supply and demand risks and water pollution susceptibility risks.

For a Sustainable Future

Evaluating Water Supply and Demand Risks

The Group evaluates the baseline water stress in communities where a plant is 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.

Evaluating Water Pollution Susceptibility Risks

The Group evaluates water supply and demand and its fragility 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).

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

The Sumitomo Chemical Group conducts business activities in many places around the world, and some of its Group companies engage in production activities in countries and regions designated as having a high baseline with regard to water stress (physical risk) according to the Aqueduct Water Risk Atlas. Sumitomo Chemical India's Bhavnagar plant is one example.

To secure water for its production operation needs, the Bhavnagar plant purchases river water from the local municipality. Recently, however, there has been an increase in the surrounding population and demand for water for farms. This, coupled with a decrease in annual rainfall, has made it difficult for the plant to secure the water needed for production operations.

The Bhavnagar plant then decided to purchase a portion of the household wastewater that the surrounding municipalities are responsible for treating, and treating the wastewater itself to use in its production operations. First, the plant laid down two kilometers of pipe to transport the household wastewater to the plant. A unique aspect of this plan is that to treat the wastewater, the plant does not use the general activated sludge method but rather uses the pollutants contained in the wastewater as nutrients to farm worms (vermiculture).

Through this initiative, the plant was able to reduce its purchasing of river water by more than 70% while solving the plant's long-standing issue of securing a stable water supply for production activities. As an added bonus, its water purchase costs were cut to around half.





Wastewater being purified through earthworm farming



Resource Saving and Waste Reduction

Sumitomo Chemical Sustainability Data Book 2020

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.

1. 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)

						. ,
	FY2017		FY2018		FY2019	
	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	1,835	1,593	1,676	1,383	1,829	1,545
Metals (excluding minor metals)	120	115	121	117	109	105
Minor metals	10.17	0.02	13.54	0.07	11.20	0.02

Note: Economic effects are detailed in the supplementary data (page 125)

2. 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 systematically limit the generation of industrial byproducts (sludge).

3. 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 main Group companies 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.



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 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.

For a Sustainable Future



(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. Encouraging conservation of habitable environments
- 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

Promoting "Sumika Sustainable Solutions"

• Developing and promoting products with low environmental burden

Improving habitable environments and creating scenic views

- Conserving reservoirs and using them to promote biodiversity
- · Promoting the greening of each worksite's premises and neighboring areas
- Collaborating on an afforestation project in Thailand
- · 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 mar ment 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 CO2 emissions (switching fuels, installing gas cogeneration systems, etc.)





6.3 6.6

9.4



11.6

12.2 12.4 12.5











15.1 15.2

14.1 14.2 15.1 15.2



Sumitomo Chemical Sustainability Data Book 2020

Misawa Works Initiatives

<River Benthic Organism Surveys Done when Conducting Water Area Surveys>

With the purpose of confirming 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. As a result, we confirmed a vulnerable species of Stenothyra in the Sabishiro River. In addition, we discovered 10 species of precious aquatic benthic organisms, such as the endangered species Cottus reinii. By being able to confirm organisms through this survey, we determined that we were maintaining ecosystems with extremely good water quality. Going forward, we will continue to regularly conduct surveys of water areas and confirm that we are conserving the environment.

















American Dugesia japonica

Asellota

Gnorimosphaeroma

<Wastewater Detoxification Initiatives>

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. In addition, we monitor the fish in the outflow.

Eogammarus kvai





Activated sludge treatment facility

<Sabishiro Cleanup Volunteering>

As part of our measures to reduce plastic waste in the ocean, we engage in garbage collection activities along the Sabishiro shoreline. From 2020 onward, we will work to incorporate these activities into our management programs based on ISO 14001. Since fiscal 2020, we have been certified as an Aomori Prefecture Hometown Aquatic Supporter.





A Sabishiro shoreline cleanup

Sumitomo Chemical's Greening Activities

<Initiatives at Works in Japan>

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. 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.



The area surrounding the Gifu Plant's fish pond



Oita Works' green belt

< Afforestation Volunteer Activities in Thailand>

From 2008 to 2019, we planted a total of 828,000 saplings in the Sumitomo Chemical Forest, a mangrove afforestation project in southern Thailand. In addition, a running total of 179 employees participated in the project and interacted with the area's residents, for example, by visiting local elementary schools.





Group photo of the volunteers

P.192 Matching Gift Program



Appropriate Management of Chemical Substances

Regarding class 1 specified 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.

For a Sustainable Future

Examples of Initiatives

1. 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.

2. Reducing Atmospheric Emissions (FY2019 results: atmospheric emissions accounted for around 98% 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.

3. 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.

Protecting the Soil Environment

We quantify the soil environments of worksites, strictly prevent the diffusion of pollutants, and actively work to prevent contamination.

Examples of Initiatives

1. 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.

2. 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.

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 international environmental protection trends better than ever and take forward-looking action.

From the perspective of continued risk management, we will focus 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.



For a Sustainable Future

1 Addressing Climate Change

Reducing Greenhouse Gas Emissions

■ Greenhouse Gas Emissions (All Seven Gases) (Sumitomo Chemical (All worksites))

(Thousand tons of CO2e)

		FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
CO ₂	Energy sources	3,357	3,347	2,559	2,405	2,454	2,543	2,722
	From other than energy use	63	65	55	50	93	155	142
Methane		_	_	_	_	_	_	_
Nitrous ox	xide (N2O)	63	76	65	45	35	23	15
Hydrofluc	procarbon (HFC)	_	_	_	_	_	_	4
Perfluoro	carbon (PFC)	_	_	_	_	_	_	_
Sulfur hexafluoride (SF6)		_	_	_	_	_	_	_
	trifluoride (NF3)	—	_	_	_	_	_	_

Notes: • CH4, HFC, PFC, SF6, and NF3 are outside the scope of reporting.

[•] Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.





Energy Saving

FY2019 Breakdown of Unit Energy Consumption (Sumitomo Chemical)

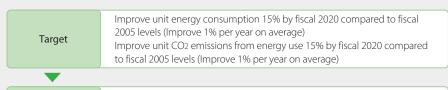
	Energy consumption (1,000 kl in crude oil equivalent) (a)	Production (1,000 tons in ethylene equivalent) (b)	Unit energy consumption (a/b)	
Ehime Works	491.2	760.2	0.647	
Chiba Works	352.1	438.0	0.804	
Osaka Works	23.4	17.2	1.359	
Oita Works*	61.3	64.9	0.944	
Misawa Works	9.8	7.9	1.236	
Ohe Works	34.6	122.6	0.282	
Total	972.3	1,410.9	0.689 <83.4% compared with FY2005>	

Note: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.

■ 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.



Results

Energy consumption totaled 972.3 thousand kl in crude oil equivalent in fiscal 2019.

In fiscal 2019, unit energy consumption worsened 2.3% compared with fiscal 2018 and improved 16.6% compared with fiscal 2005.

Unit CO2 emissions from energy use worsened 2.0% compared with fiscal 2018 and improved 14.1% compared with fiscal 2005.

■ FY2019 Energy Consumption and CO₂ Emissions (Sumitomo Chemical and Group Companies in Japan (All worksites))

	Energy consumption (1,000 kl in crude oil equivalent)	CO2 emissions from energy use (1,000 tons)		
Sumitomo Chemical	986	2,722		
Works	972	2,696		
Non-manufacturing sites including the Head Offices and Research Laboratories	14	26		
Sumitomo Chemical and Group companies in Japan	1,716	5,051		
Works	1,687	4,994		
Non-manufacturing sites including the Head Offices and Research Laboratories	30	56		

Notes: • 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.

[•] The boundary of calculation covers the same participating companies listed on page 3.



Environmental Activities: Supplementary Data

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2 Environmental Protection

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).

■ FY2017-2019 Environmental Performance (Sumitomo Chemical and Group Companies in Japan)

INPUT Energy and Resources



	(IVIIIIION TONS)		
	FY2017	FY2018	FY2019*
Industrial water	67.2	63.1	63.4
Drinking water	0.9	0.8	0.8
Seawater	930.3	848.1	918.2
Groundwater	25.5	22.7	21.8
Other water	2.5	2.4	2.2
Total	1,026.4	937.1	1,006.4



			(Thousand kl)
	FY2017	FY2019*	
Fuel, heat, and electricity*1	1,837	1,690	1,720



	(Inousand tor					
	FY2017 FY2018		FY2019			
Hydrocarbon compounds	1,835	1,676	1,829			
Metals (excluding minor metals)*2	120	121	109			
Minor metals*3	10.17	13.54	11.20			

PCB/CFCs under Secure Storage

	FY2017	FY2018	FY2019
No. of electrical devices containing high concentrations of PCBs*4	58	10	13
PCB volume (pure equivalent) (kl)*4	1.0	0.1	0.1
No. of refrigeration units using specified CFCs as a coolant	48	32	32
No. of refrigeration units using HCFCs as a coolant	262	272	260

Note: The number of companies included in the boundary of calculation for the environmental performance data on page 121 is as follows for each year.

FY2017: Sumitomo Chemical and Group companies in Japan: 21 companies

FY2018: Sumitomo Chemical and Group companies in Japan: 21 companies

FY2019: Sumitomo Chemical and Group companies in Japan: 21 companies

- *1 From fiscal 2017, the energy (calculated as kl of crude oil) indices were calculated in accordance with the GHG Protocol (refer to page 208 "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
- *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.



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OUTPUT Product Manufacturing and Environmental Impact



	(Thousand tons				
	FY2017	FY2018	FY2019*		
(Calculated on the basis of ethylene production)*1	2,602	2,490	2,521		



	(Tons)				
	FY2019*				
COD	Coastal waters/waterways	998	998	887	
	Sewer systems	234	216	197	
D	Coastal waters/waterways	32	35	30.5	
Phosphorus	Sewer systems	6	5	4.7	
N.I	Coastal waters/waterways	1,442	1,488	1,457	
Nitrogen	Sewer systems	72	96	53.3	
Substances	subject to the PRTR Act	45	13	8.0	



			(Million tons)
	FY2017	FY2018	FY2019
Total amount of water discharge	987	911	980

Note: Includes seawater emissions of Sumitomo Joint Electric Power Co., Ltd.



	(Thousand tons				
	FY2017	FY2019*			
Waste emissions*2	261	244	232		
Landfill*2	21	1 23 2			
(Breakdown)					
On-site landfill	0	0	0		
External landfill	21	23	22		

Note: The number of companies included in the boundary of calculation for the environmental performance data on page 122 is as follows for each year.

FY2017: Sumitomo Chemical and Group companies in Japan: 21 companies

FY2018: Sumitomo Chemical and Group companies in Japan: 21 companies

FY2019: Sumitomo Chemical and Group companies in Japan: 21 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

For a Sustainable Future

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	(Thousand tons of CO ₂				
	FY2017	FY2018	FY2019*		
Greenhouse gases (seven gases)*1	6,432	5,957	5,962		
Emissions from energy use (CO ₂)	5,611	5,172	5,209		
CO2 emissions from other than energy use	711	684	659		
N2O	110	101	89		
HFC*2	_	_	4		
PFC*2	_	_	_		
CH4*2			_		
SF6*2			_		
NF3*2			_		

(Tons) FY2017 FY2018 FY2019* Others 4,326 NOx 4,703 4,208 SOx 5,023 5,152 4,621 Soot and dust 247 222 192 Substances subject to the PRTR Act*3 438 458 438

Note: The number of companies included in the boundary of calculation for the environmental performance data on page 123 is as follows for each year.

FY2017: Sumitomo Chemical and Group companies in Japan: 21 companies

FY2018: Sumitomo Chemical and Group companies in Japan: 21 companies

FY2019: Sumitomo Chemical and Group companies in Japan: 21 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 209 "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: CO2 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); CO2 emissions from energy use attributable to Sumitomo Chemical's non-production sites; and CO2 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 Outside the scope of reporting under the Act on Promotion of Global Warming Countermeasures.
- *3 Calculated based on the amount released into water/the air of each substance subject to the PRTR Act.

Compliance with Environmental Laws and Regulations

Compliance with Environmental Laws and Regulations						
FY2017 FY2018						
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 21 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.; Sumitomo Chemical Garden Products Inc.; Sumika Polycarbonate Limited; Nihon Medi-Physics Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.; Koei Chemical Co., Ltd.; Taoka Chemical Chemica Corporation; SCIOCS COMPANY LIMITED; Sumitomo Dainippon Pharma Co., Ltd.; and SN Kasei Co., Ltd.

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, 2019 to March 31, 2020

Sumitomo Chemical Sustainability Data Book 2020

- (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 9.8 billion yen, and consolidated expenses increased by 2.7 billion yen.

■ Environmental Protection Cost

(Billion ver

	(Billion yen)									
			FY2018 FY2019							
Classification		Details of Major Initiatives	Non-Consolidated		Consolidated		Non-Consolidated		Consolidated	
			Investment	Expenses	Investment	Expenses	Investment	Expenses	Investment	Expenses
Faci	lity Area Costs		5.3	18.7	11.7	30.9	0.7	20.4	1.9	32.7
Br	Pollution Prevention Costs	Prevention of air pollution, water pollution, soil contamination, noise pollution, odors, ground subsidence, etc. (pages 126–127)	(4.9)	(13.6)	(7.9)	(18.5)	(0.5)	(15.2)	(1.3)	(19.6)
Breakdown	Global Environmental Protection Costs	Energy saving, prevention of global warming, ozone layer depletion, and other measures (pages 120, 129)	(0)	(0.2)	(3.3)	(3.9)	(0)	(0.2)	(0.4)	(4.3)
'n	Resource Recycling Costs	Resource saving, water saving and rainwater usage, waste reduction/disposal treatment, recycling, etc. (pages 115, 133)	(0.4)	(4.9)	(0.5)	(8.5)	(0.2)	(5.0)	(0.2)	(8.8)
	tream/ vnstream Costs	Green purchasing, recycling, recovery, remanufactur- ing and appropriate treatment of products, recycling costs associated with containers and packaging, environmentally friendly products and services, etc.	0	0	0	0.3	0	0	0	0.3
Adm	ninistrative Costs	Costs associated with environmental education, environmental management systems, the moni- toring and measuring of the environmental impact of business activities and products, environmental organization operations, etc. (page 138)	0	0.7	0	1.4	0	0.8	0	1.4
R&D	Costs	Development of products with attention to environ- mental safety, research into energy-saving processes, etc. (pages 36–40)	0.1	6.6	0.1	6.7	0.1	7.4	0.1	7.5
Soci	al 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	0.5	0	0.7	0	0.5	0	0.8
	ronmental nediation 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
Tota	I		5.4	26.5	11.8	40.0	0.8	29.1	2.0	42.7

^{*} Sumitomo Dainippon 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.; Sumikomo Chemical Asia Pte Ltd; The Polyolefin Company (Singapore) Pte. Ltd.; Sumika Technology Co., Ltd.; and Sumika Electronic Materials (Wuxi) Co., Ltd.





■ Economic Effects

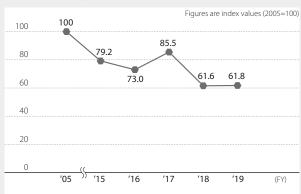
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(Billion yen)

Results	FY2	018	FY2019		
nesaits	Non-Consolidated	Consolidated	Non-Consolidated	Consolidated	
Reduced costs through energy saving	0.3	0.4	0.2	0.3	
Reduced costs through resource saving	0.1	0.1	0.3	0.4	
Reduced costs through recycling activities	2.7	2.8	2.8	3.0	
Total	3.1	3.3	3.3	3.7	

Note: Since the calculation standards have been changed, the data has been retroactively revised in previous fiscal years

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.



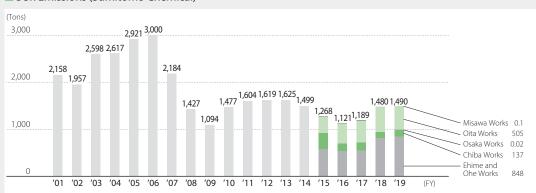


Preventing Pollution: Atmospheric Emissions of SOx, NOx, Soot, and Dust

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.

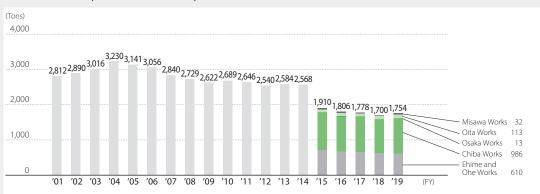
Note: Data for the Gifu Plant and Okayama Plant from fiscal 2004 to fiscal 2012 is included in Osaka Works. Data for the Gifu Plant and Okayama Plant from fiscal 2013 is included in Oita Works.

SOx Emissions (Sumitomo Chemical)





NOx Emissions (Sumitomo Chemical)



■ Soot and Dust Emissions (Sumitomo Chemical)



Target Continue to sustain levels below voluntary control standard values.





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.

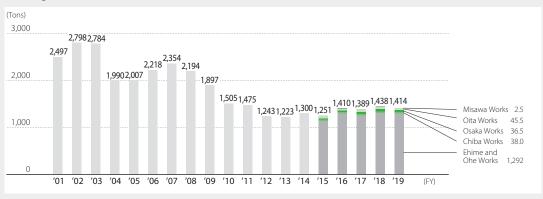
Note: Data for the Gifu Plant and Okayama Plant from fiscal 2004 to fiscal 2012 is included in Osaka Works. Data for the Gifu Plant and Okayama Plant from fiscal 2013 is included in Oita Works.

■ COD Emissions (water emissions include water discharge to sewage systems) (Sumitomo Chemical)

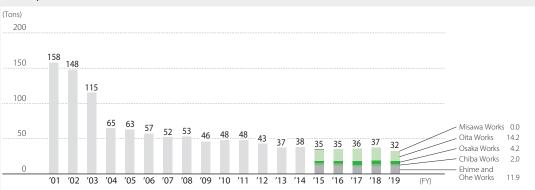




■ Nitrogen Emissions (Sumitomo Chemical)



Phosphorus Emissions (Sumitomo Chemical)

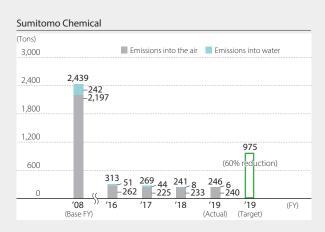


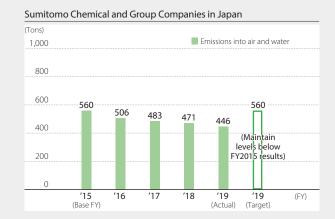
Target Continue to sustain levels below voluntary control standard values.

For a Sustainable Future

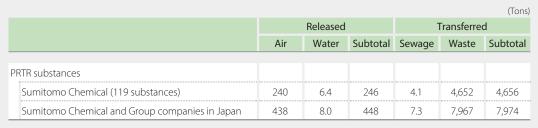
Addressing PRTR and VOCs

■ Trends in Emissions of Substances Subject to the PRTR Act

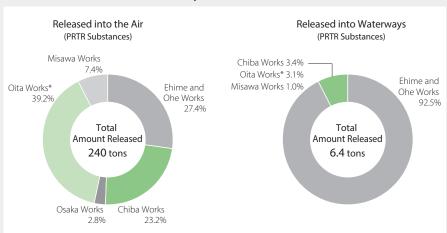




■ FY2019 Release and Transfer of PRTR Substances (Sumitomo Chemical and Group Companies in Japan)



FY2019 PRTR Substances Released by Works (Sumitomo Chemical)



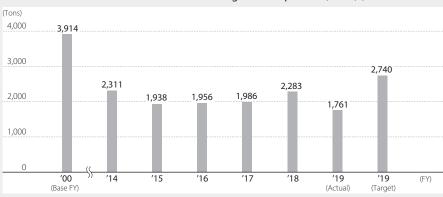
^{*} Data for the Oita Works includes data for the Gifu and Okayama plants.



Sumitomo Chemical Sustainability Data Book 2020

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 1,761 tons, or 55.0%, compared with fiscal 2000 by fiscal 2019, 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 2019

(Number of units)

	Sumitomo Chemical	Sumitomo Chemical and Group companies in Japan
CFC11	8	8
CFC12	3	23
CFC113	0	1
HCFC22	84	226
HCFC123	26	33
HCFC142b	0	1

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.





For a Sustainable Future

Response to the Pollutant Release and Transfer Register Ordinance(Issued on November 21, 2008)

		(Tons, Dioxins: mg-TEQ)							
No.	Name of Chemical Compound			ount Rele		Amount Transferred			
		Air	Water	Soil	Landfill	Total	Sewage	Waste	Total
1	Zinc compounds (water-soluble)	0.0	3.4	0.0	0.0	3.4	<0.1	87.1	87.1
2	Acrylic acid and its water-soluble salts		0.0	0.0	0.0	<0.1	0.0	0.0	0.0
3	Methyl acrylate	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0
4	Acrylonitrile	4.1	0.0	0.0	0.0	4.1	0.0	0.0	0.0
5	Acrolein	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
6	Acetaldehyde	0.3	<0.1	0.0	0.0	0.3	0.0	0.0	0.0
7	Acetonitrile	0.9	0.0	0.0	0.0	0.9	0.0	4.5	4.5
8	o-Anisidine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Aniline	0.7	0.0	0.0	0.0	0.7	0.0	33.8	33.8
10	2-Aminoethanol	<0.1	0.2	0.0	0.0	0.2	0.0	32.2	32.2
11	m-Aminophenol	0.0	<0.1	0.0	0.0	<0.1	0.0	17.5	17.5
12	Allyl alcohol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
13	Antimony and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Isobutyraldehyde	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0
15	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
16	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
17	Ethylbenzene	3.0	<0.1	0.0	0.0	3.1	0.1	21.3	21.4
18	Epichlorohydrin	0.6	0.0	0.0	0.0	0.6	0.0	0.0	0.0
19	1,2-Epoxypropane (also known as propylene oxide)	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
20	Cadmium and its compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
21	ε-Caprolactam	0.2	0.6	0.0	0.0	0.8	0.0	0.0	0.0
22	Xylene	3.3	<0.1	0.0	0.0	3.4	0.1	33.4	33.5
23	Quinoline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	Cumene	12.0	<0.1	0.0	0.0	12.0	0.0	0.0	0.0
25	Cresol	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0
26	Chromium and chromium(III) compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
27	Chromium(VI) compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
28	Chloroaniline	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	Chloroacetic acid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	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
31	3-Chloropropene (also known as allyl chloride)	1.6	0.0	0.0	0.0	1.6	0.0	15.3	15.3
32	Chlorobenzene	2.0	<0.1	0.0	0.0	2.0	0.0	163.7	163.7
33	Chloroform	<0.1	0.0	0.0	0.0	<0.1	0.0	300.9	300.9
34	Cobalt and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	Vinyl acetate	23.4	<0.1	0.0	0.0	23.4	0.0	0.0	0.0
36	Salicyl aldehyde		0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	(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
38	Inorganic cyanide compounds (excluding complex salts and cyanates)	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
39	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
40	Tetrachloromethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Environmental Activities: Supplementary Data

								ns, Dioxin	
No.	Name of Chemical Compound		Amount Released					ferred	
		Air	Water	Soil	Landfill	Total	Sewage	Waste	Total
41	1,4-Dioxane	<0.1	0.0	0.0	0.0	<0.1	<0.1	119.2	119.2
42	Cyclohexylamine	0.0	<0.1	0.0	0.0	<0.1	0.0	2.2	2.2
43	1,2-dichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
44	1,1-Dichloroethylene (also known as vinylidene chloride)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	Cis-1,2-dichloroethylene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	2,2-Dichloro-1,1,1- trifluoroethane (also known as HCFC-123)	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0
47	1,2-Dichloropropane	<0.1	0.0	0.0	0.0	<0.1	0.0	360.0	360.0
48	1,3-Dichloropropene (also known as D-D)	0.5	0.0	0.0	0.0	0.5	0.0	61.0	61.0
49	Dichlorobenzene	0.0	0.0	0.0	0.0	0.0	0.0	153.5	153.5
50	Dichloromethane (also known as methylene chloride)	0.4	0.0	0.0	0.0	0.4	0.0	24.7	24.7
51	Dicyclopentadiene	<0.1	0.0	0.0	0.0	<0.1	0.0	5.5	5.5
	2,4-Dinitrophenol	0.0	0.0	0.0	0.0	0.0	0.0	37.9	37.9
53	1,3-Diphenylguanidine	0.0	0.4	0.0	0.0	0.4	0.0	7.9	7.9
54	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
	2,4-Di-tert-butylphenol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
56	N,N-Dimethylacetamide	0.0	0.0	0.0	0.0	0.0	0.0	10.3	10.3
57	2,4-dimethylaniline	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
	N,N-Dimethylaniline	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
	Dimethylamine	0.0	<0.1	0.0	0.0	<0.1	0.0	1.9	1.9
	N,N-Dimethylformamide	<0.1	<0.1	0.0	0.0	<0.1	0.0	117.7	117.7
	Mercury and its compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Organotin compounds	0.0	<0.1	0.0	0.0	<0.1	0.0	0.7	0.7
	Styrene	2.2	0.0	0.0	0.0	2.2	0.0	0.6	0.6
	Selenium and its compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
	Dioxins	4.2	5.4	0.0	0.0	9.6	0.2	10.5	10.7
	Thiourea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tetrachloroethylene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2,3,5,6-Tetrachloro-para-benzoquinone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Tetramethylthiuram disulfide (also known as thiuram or thiram)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Terephthalic acid	0.0	0.0	0.0	0.0	0.0	0.0	418.0	418.0
	Water-soluble copper salts (excluding complex salts)	0.0	<0.1	0.0	0.0	<0.1	<0.1	0.0	<0.1
	Triethylamine	0.6	0.2	0.0	0.0	0.9	0.6	40.3	40.9
	1,1,1-trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1,1,2-trichloroethane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Trichloroethylene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2,4,6-Trichloro-1,3,5-triazine	0.0	0.0		0.0	0.0	0.0	***************************************	
	1,2,3-Trichloropropane	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0 16.3	0.0
	1,2,4-Trimethylbenzene	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0
	Toluidine	0.0	0.0	0.0	0.0	0.4	0.0	3.6	3.6
	Toluene	139.1	0.0	0.0	0.0	139.3		2,291.8	
	Naphthalene	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

	Lead compounds Nickel compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
	Nickel compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
	Nitrobenzene	0.6	0.6	0.0	0.0	1.2	0.0	44.3	44.3
85	Vanadium compounds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Environmental Activities: Supplementary Data

		Λm	ount Rele	arad			ons, Dioxin	s: mg-TEQ) forrad
No. Name of Chemical Compound	Air	Water	Soil	Landfill	Total	Sewage		Total
86 Arsenic and its inorganic compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
87 Hydrazine	<0.1	<0.1	0.0	0.0	<0.1	0.0	42.1	42.1
88 Hydroquinone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89 4-Vinyl-1-cyclohexene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90 biphenyl	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91 Pyridine	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
92 1,3-Butadiene	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
93 Bis(2-ethylhexyl)phthalate	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
94 tert-Butyl hydroperoxide	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95 2-tert-Butyl-5-methylphenol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
96 Hydrogen fluoride and its water-soluble salts	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
97 2-Propyn-1-ol	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
98 2-Bromopropane	0.0	0.0	0.0	0.0	0.0	0.0	6.2	6.2
99 Hexadecyltrimethylammonium chloride	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
100 n-Hexane	27.5	<0.1	0.0	0.0	27.6	0.0	105.2	105.2
101 Water-soluble salts of peroxydisulfuric acid	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102 Benzyl chloride	<0.1	0.0	0.0	0.0	<0.1	0.0	0.0	0.0
103 Benzaldehyde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104 Benzene	0.3	0.2	0.0	0.0	0.5	<0.1	0.0	<0.1
105 Boron compounds	0.0	0.0	0.0	0.0	0.0	<0.1	3.1	3.2
106 Polychlorinated biphenyls (also known as PCBs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107 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
108 Formaldehyde	<0.1	<0.1	0.0	0.0	0.1	2.8	8.5	11.3
109 Manganese and its compounds	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	<0.1
110 Phthalic anhydride	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111 Maleic anhydride	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1
112 2,3-Epoxypropyl methacrylate	1.6	0.0	0.0	0.0	1.6	0.0	0.0	0.0
113 Methyl methacrylate	8.7	0.0	0.0	0.0	8.7	0.0	44.2	44.2
114 (Z)-2'-Methylacetophenone= 4,6-dimethyl-2-pyrimidinyl hydrazone (also known as Ferimzone)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115 Methylamine	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
116 3-Methylthiopropanal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117 Methylnaphthalene	3.7	0.0	0.0	0.0	3.7	0.0	0.0	0.0
118 Morpholine	0.0	<0.1	0.0	0.0	<0.1	0.0	0.0	0.0
119 Triphenyl phosphate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	240.3	6.4	0.0	0.0	246.7	4.1		-



Industrial Waste Reduction

Sumitomo Chemical Sustainability Data Book 2020

■ PCB Waste (Sumitomo Chemical and Group Companies in Japan)

Storage and Control of High Concentrations of PCB Waste as of the End of Fiscal 2019

	Number	Volume of		
	Total	Storage	Usage	PCBs (kl)
Sumitomo Chemical	4	4	0	<0.01
Sumitomo Chemical and Group Companies in Japan	13	9	4	0.1

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

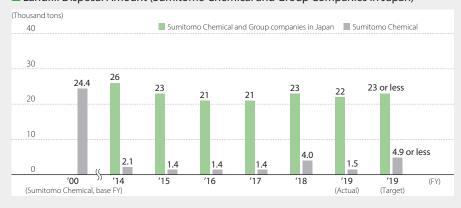
Properly collect and store high-concentration PCB-containing waste and complete treatment of this waste at an early date.

Results

Untreated high-concentration PCB-containing waste is still being collected and stored.

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.

■ Landfill Disposal Amount (Sumitomo Chemical and Group Companies in Japan)



Target

We aim to maintain a landfill disposal amount of no more than 4,900 tons, 80% less than the fiscal 2000 level, for Sumitomo Chemical and no more than the fiscal 2015 level of 23,000 tons for Sumitomo Chemical and Group companies in Japan.

Results

Targets were achieved for Sumitomo Chemical as well as Sumitomo Chemical and Group companies in Japan.

^{*} Transformers, capacitors, and other electronic devices that contain PCB insulating oil.



■ Digitization of Manifests to Be Prepared Pursuant to the Waste Management and Public Cleansing Act (Sumitomo Chemical)

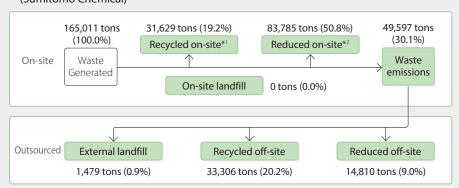
	Number of manifests issued	Number of manifests digitized	Digitization rate (%)
FY2013	19,389	15,329	79
FY2014	18,662	14,930	80
FY2015	18,973	16,337	86
FY2016	19,868	19,594	99
FY2017	19,858	19,585	99
FY2018	20,598	20,355	99
FY2019	19,835	19,726	99

Sumitomo Chemical has been fostering the digitization of manifests to improve operational efficiency and ensure compliance with the law and transparency of data.

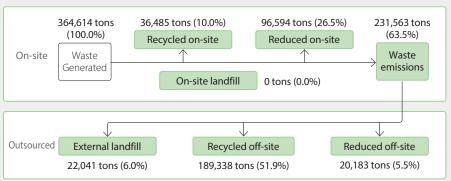


■ Waste Disposal Flow Chart and FY2019 Results (Sumitomo Chemical)

Sumitomo Chemical Sustainability Data Book 2020



(Sumitomo Chemical and Group Companies in Japan)



- *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 FY2019 Results by Item in connection with the Disposal of Waste (Sumitomo Chemical)

											(Tons)
Туре	Waste	Recycle	d on-site	Reduced	d on-site	NA (,	0 "	D 1 1	Recycle	d off-site	F
	Generated	Reused, recycled	Thermally recycled	Incineration	Other	Waste emissions	On-site landfill	Reduced off-site	Reused, recycled	Thermally recycled	External landfill
0	1.666.0					1.0000			42470		2100
Burnt residue	4,666.8		. .			4,666.8			4,347.8		319.0
Sludge	51,369.0		12,782.6	23,086.2	2,664.7	12,835.5		3,007.0	9,669.2	1.3	158.0
Oil waste	38,894.8	4,500.1	11,153.2	11,655.9		11,585.5		4,441.7	5,770.3	1,290.1	83.4
Waste acid	7,962.1		0.6	6,153.4	692.6	1,115.5		719.2	237.6	125.8	32.9
Waste alkali	53,155.1	2,943.4	39.0	37,778.6		12,394.1		5,574.2	5,474.6	1,267.3	77.9
Waste plastic	4,880.5		150.0	747.1		3,983.4		426.6	2,917.9	81.8	557.1
Waste paper	1,117.2		46.9	833.0		237.3		28.1	240.0		0.1
Wood waste	1,174.3			142.7		1,031.6		30.5	548.8	445.9	6.4
Textile waste	43.3			29.0		14.3		12.2	2.1		
Animal and plant residues	11.8					11.8		11.8			
Metal waste	529.2			1.5		527.7		120.8	358.3		17.7
Glass and pottery waste	501.0					501.0		62.0	376.7		62.2
Slag											
Debris	679.1	7.0				672.1		376.2	151.0		143.9
Soot and dust	27.4		6.6			20.8					20.8
Total	165,011	7,450	24,179	80,427	3,357	49,597	0	14,810	30,094	3,212	1,479



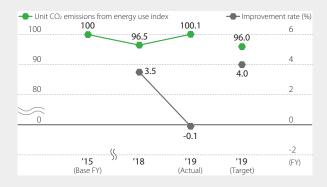
Sharing Environmental Protection and Management Targets (Japan)

For a Sustainable Future

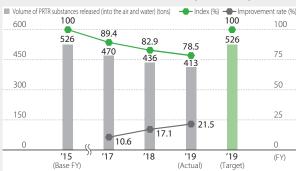
■ Unit Energy Consumption Indices (2015 = 100)



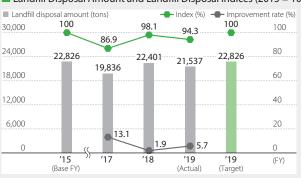
■ Unit CO₂ Emissions from Energy Use Indices (2015 = 100)



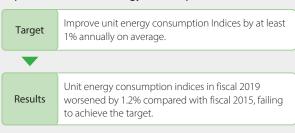
■ Volume of PRTR Substances Released (into the Air and Water) and PRTR Substance Emissions Indices (2015 = 100)



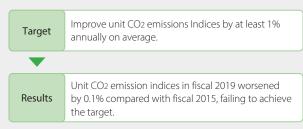
■ Landfill Disposal Amount and Landfill Disposal Indices (2015 = 100)



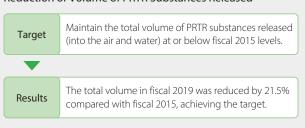
Improvement in Unit Energy Consumption Indices



Improvement in Unit CO₂ Emissions from Energy Use Indices



Reduction of Volume of PRTR Substances Released



Reduction of landfill disposal amount



Note: Sumitomo Chemical and the 15 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.; Sumika Assembly Techno Co., Ltd.; SanTerra Co., Ltd.; Sumika Agro Manufacturing Co., Ltd.; SC Environmental Science Co., Ltd.; Sumika Agrotech Co., Ltd.; Sumitomo Chemical Garden Products Inc.; Sumika Polycarbonate Limited; Nihon Medi-Physics Co., Ltd.; Sumitomo Joint Electric Power Co., Ltd.

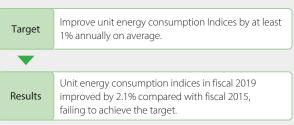


Sharing Environmental Protection and Management Targets (Overseas)

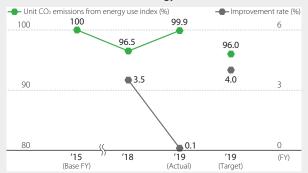
■ Unit Energy Consumption Indices (2015 = 100)



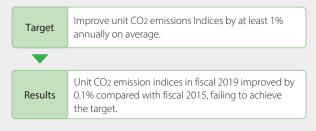
Improvement in Unit Energy Consumption Indices



■ Unit CO₂ Emissions from Energy Use Indices (2015 = 100)



Improvement in Unit CO2 Emissions from **Energy Use Indices**



■ Unit Water Usage Indices (2015 = 100)



Improvement in Unit Water Usage Indices



Note: The following 20 Group companies overseas are included in the boundary of calculation:

• The Polyolefin Company (Singapore) Pte. Ltd. • Sumitomo Chemical Asia Pte Ltd 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 (Shanghai) Co., Ltd. • Sumika Electronic Materials (Xi'an) Co., Ltd.

• Sumika Polymer Compounds Dalian Co., Ltd. • Zhuhai Sumika Polymer Compounds Co., Ltd.

• Dalian Sumika Jingang Chemicals Co., Ltd.

• Sumika Technology Co., Ltd. • Sumipex Techsheet Co., Ltd. Taiwan

India • Sumitomo Chemical India Private Limited • Dongwoo Fine-Chem Co., Ltd. • SSLM Co., Ltd. United States • Sumitomo Chemical Advanced Technologies LLC

Environment



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-018	April 1998
Chiba Works (including the SCIOCS Chiba Facility)	KHK-97ER, 004R6-05	June 1997
Osaka Works	JQA-E-90072	November 1997
Oita Works (Gifu Plant)	JCQA-E-0206	December 2000
Oita Works (Okayama Plant)	JCQA-E-0218	January 2001
Oita Works	JQA-E-90152	March 1998
Misawa Works	JQA-EM0355	March 1999

2. Group Companies In Japan

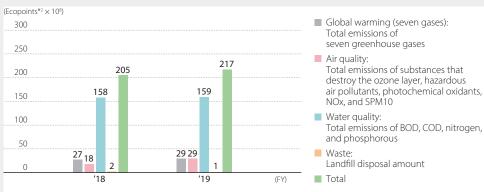
Sumika-Kakoushi Co., Ltd.	Sumika Agro Manufacturing Co., Ltd.
Sumika Color Co., Ltd.	Koei Chemical Co., Ltd.
Nippon A&L Inc.	Taoka Chemical Co., Ltd.
Asahi Chemical Co., Ltd.	Tanaka Chemical Corporation
Ceratec Co., Ltd.	SCIOCS COMPANY LIMITED
Sumika Assembly Techno Co., Ltd	Sumitomo Dainippon Pharma Co., Ltd.

3. Overseas Group Companies

Dongwoo Fine-Chem Co., Ltd.
The Polyolefin Company (Singapore) Pte. Ltd.
Sumika Electronic Materials (Wuxi) Co., Ltd.
Sumitomo Chemical Asia Pte Ltd
Sumika Huabei Electronic Materials (Beijing) Co., Ltd.
Zhuhai Sumika Polymer Compounds Co., Ltd.
Sumika Polymer Compounds (Thailand) Co., Ltd.
Sumitomo Chemical Advanced Technologies LLC
Sumipex (Thailand) Co., Ltd.
Bara Chemical Co., Ltd.
SSLM Co., Ltd.
Sumika Electronic Materials (Xian) Co., Ltd.
Sumika Electronic Materials (Hefei) Co., Ltd.
Sumika Electronic Materials (Shanghai) Co., Ltd.
Sumika Polymer Compounds Dalian Co., Ltd.

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 2019, 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.
- - 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)

For a Sustainable Future

Contributing to the SDGs through **Social Activities**



















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Social Activity Goals and Results

For a Sustainable Future

Goal achieved or steadily progressing: \bigcirc Goal not achieved: \triangle

lt	ems	Boundary	Fiscal 2019 Goals	Fiscal 2019 Results	Evaluation	Fiscal 2020 Goals	Page
Procurement		Sumitomo Chemical Group	Thoroughly ensure compliance and promote sustainable procurement by strengthening collaboration with business partners through sustainability surveys related to raw materials and packaging materials	Promoted thorough compliance among relevant internal and external parties and promoted sustainable procurement by strengthening collaboration with business partners through monitoring, feedback, and trade briefings (Sumitomo Chemical results)	0	Thoroughly ensure compliance, maintain and enhance sustainable procurement, and promote initiatives for respecting human rights in the supply chain	Pages 149–153
HR Management		Sumitomo Chemical Group	Employ human resources and greatly strengthen recruitment capabilities	Secured personnel by strengthening and updating our recruitment practices	0	Employ human resources and greatly strengthen recruitment capabilities	
		Sumitomo Chemical Group	Manage global human resources and work on workforce management that is responsive to business expansion	Appropriately placed personnel in response to business expansion, held Global Managers Meeting, and systematically conducted global human resources development	0	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 Take Action' Declaration"	0	Develop personnel and run HR systems to promote employee growth and development	Pages 154–173
		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 Take Action' Declaration"	0	Promote sustainability, diversity and inclusion, and work-life balance	
•	Lost-workday	Sumitomo Chemical	0	4	Δ	0	
Safety and Health /	injuries	Partner companies*1	0	6	Δ	0	
Industrial Safety and Disaster	Frequency rate of lost-workday injuries*2	Sumitomo Chemical Group*3	Less than 0.1	0.42	Δ	Less than 0.1	
Prevention	Severe accidents*4	Sumitomo Chemical Group* ³	0	1	Δ	0	Pages 174–180
	Severe industrial accidents*5	Sumitomo Chemical Group*3	0	0	0	0	
	Lost-workday injuries in logistics*6	Logistics	0	5	Δ	0	

Note: Further details are provided in the supplementary data (pages 196–204).

^{*1} A partner company injury is defined as one suffered within a Sumitomo Chemical worksite by an employee of a company affiliated with a logistics or construction subcontractor.

^{*2} The Responsible Care Department determines if accidents that occur at overseas consolidated subsidiaries are considered to be lost-workday injuries or non lost-workday injuries based on how the accidents are handled in Japan.

^{*3} For the purposes of occupational safety and health/industrial safety and disaster prevention, the Group is defined as Sumitomo Chemical (including its partner companies and others) and consolidated subsidiaries in Japan and overseas.

^{*4} 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.

^{*5} 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.

^{*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



Sumitomo Chemical Sustainability Data Book 2020

Social Activity Goals and Results

Goal achieved or steadily progressing: \bigcirc Goal not achieved: \triangle

Items		Boundary	Fiscal 2019 Goals	Fiscal 2019 Results	Evaluation	Fiscal 2020 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	O	Continue to act precisely in accordance with domestic and overseas laws and regulations	Pages 181–186
	Chemicals management and information disclosure	Sumitomo Chemical	Continue to promote risk-based chemicals management and information disclosure	Systematically put in place risk assessment methods	0	Continue to promote 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, 13 Group companies in Japan use the system. We began 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 in response to overseas regulations	0	Continue to promote utilization of SuCCESS and develop concrete plans for expansion to Group companies	
	Risk assessment	Sumitomo Chemical	Steadfastly perform product safety risk assessments	Performed 73 product safety risk assessments, including 38 reassessments	0	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, one Rank C incident	0	No Rank A or Rank B incidents, two or fewer Rank C incidents	
Local 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 (includes support for education in Africa)	0	Provide support to achieve the United Nations Sustainable Development Goals	Pages 189–195
		Sumitomo Chemical Group	Provide prompt and precise support in response to emergen- cies and disasters in Japan and overseas	Supported areas recovering from the torrential rains of typhoons Faxai and Hagibis	0	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.	0	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	0	Continue to expand information disclosure using SDGs and promote interactive dialogue	

Note: Further details are provided in the supplementary data (pages 205–206).

 $[\]hbox{* Includes some Group companies in Japan that have Works within a Sumitomo Chemical worksite.}\\$

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.

For a Sustainable Future

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.



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.

For a Sustainable Future

(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/ 何



Society



Management System

For a Sustainable Future

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, 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 in charge of the Planning & Coordination Offices of their respective departments participate as committee members.

Roles of the Committee

- (1) Promotion of awareness of human rights
- (2) 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)

System and Committee for Promoting 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

For a Sustainable Future

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 FY2019

Name and format	Purposes	Boundary	Sessions	Participants	Participation rate
Seminars and lectures on human	 Preventing harassment and discrimination on the grounds of gender and against social 	Sumitomo Chemical	104	4,782 (cumulative total)	77%
rights Training based on the Sumitomo Chemical Group Human Rights Policy	minorities and human rights violations • Preventing child labor, forced labor, and human trafficking etc.	Sumitomo Chemical Group (43 major Group companies in Japan)	Approximately 240	Approximately 8,950 (cumulative total)	Approximately 67%

Consultation Office

Sumitomo Chemical has established a system in which employees can seek consultation on various kinds of harassment, including power harassment, sexual harassment, and maternity harassment, putting in place its harassment consultation office and consultants and guaranteeing privacy and confidentiality. In fiscal 2019, as in the past, there were no confirmed cases of significant human rights violation or discrimination that might affect the continuity of the Sumitomo Chemical Group's business.

Society



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 been implementing measures for sustainable procurement, and has also established a system for human rights due diligence in accordance with the Guiding Principles on Business and Human Rights. Human rights due diligence is a continuous effort to identify potential negative impacts on human rights in the entire value chain that may be generated through the Group's business activities, to prevent and correct the impacts, and to disclose information on these measures and their results. 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.

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 aim to make our assessment objective and pertinent to actual situations.

For this risk assessment, we first set the four categories of society, environment, 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.

In fiscal 2020, we plan to conduct a more detailed investigation of Group companies that were rated as having a relatively high risk in our risk assessment. If it is found in human rights due diligence that our business activities are producing or promoting a negative impact on human rights, we will hold deliberations with the relevant stakeholders and take corrective and remedial action through appropriate procedures.

Overview of the Process of Human Rights Due Diligence



Sustainable Procurement with Respect for Human Rights

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.

In addition, going a step further in our efforts to avoid procuring conflict minerals, we have defined not only conflict minerals but also raw materials that pose a high risk of causing a negative impact on human rights as high-risk raw materials, and formulated the Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials. Going forward, we will plan and implement specific measures for sustainable procurement in accordance with this policy.





Furthermore, we have reaffirmed our commitment to respecting human rights across our entire supply chain and also showed support for the "Joint Declaration on Rectifying Business Practices That Lead to Long Working Hours," which has been endorsed by about 110 business and economic associations including the Japan Business Federation. In addition, we highlight respect for human rights across our value chain and supply chain in our Compliance Manual (Sumitomo Chemical Code of Business Conduct) and ensure that all Group officers and employees comply with this manual.

For a Sustainable Future

Engaging in Human Rights Initiatives

1. 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 2019 was "Human Rights Issues by Sector" formulated by the Nippon CSR Consortium in fiscal 2018. 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 2019 Stakeholder Engagement Program (Human Rights Due Diligence Workshop) Report

https://crt-japan.jp/files2019/SHE/Human%20Rights%20Issues%20by%20Sector%20EN.pdf

2. 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 2019, the subcommittee organized various initiatives such as seminars by experts, workshops for addressing grievances related to human rights risks, 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.

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.



Basic Stance

For a Sustainable Future

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 quidelines 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.

Environment



Sumitomo Chemical Group Policy for Responsible Procurement of Minerals / Raw Material

For a Sustainable Future

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 Tentorium, 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 humanrights 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.



Management System

For a Sustainable Future

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

FY2019 Group-wide Initiatives

Main Initiatives	Details
Group purchasing information exchange meeting 1 time	Participating companies: 20 • Shared information and held discussions regarding the importance of sustainability measures, including those related to human rights and the environment; our stance toward and policy on sustainable procurement; and specific initiatives
Company-wide procurement liaison meetings 2 times	Participants: Representatives responsible for procurement of Business Sectors • Discussed the importance of sustainability measures, including those related to human rights and the environment; our stance toward and policy on sustainable procurement; and specific initiatives
Procurement staff education	Participants: All procurement staff (including new employees and transferees) Larned about the importance of sustainability measures, including those related to human rights and the environment; our stance toward and policy on sustainable procurement; and specific initiatives

FY2019 Initiative for Suppliers

F12019 illitiative for suppliers						
Main Initiatives	Details					
Supplier Briefings 1 time	Participating companies: 201 • Gave introductions on the Sumitomo Chemical Group's sustainability initiatives					
Suppliers Dialogues 8 times	Participating companies: 40 • Gave introductions on sustainability initiatives and shared information regarding human rights (child labor, etc.) and occupational safety					
Supplier Engagement on SBTs*1 2 times	Participating companies: 22 • Regarding Scope 3*2 GHG emissions, we engaged with our major suppliers*3 so they would set science-based GHG emission reduction targets by FY2024. • At the same time, we presented introductions to Sumitomo Chemical's sustainability initiatives.					
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 in the previous fiscal year Sustainable procurement rate*4: 49% (As of May 2020)					
Evaluation of New Suppliers	Due diligence rate for new suppliers: 100% Suppliers who were rated "good" and with whom business began: 100%					
Onsite Audits	Number times monitoring was conducted in conjunction with quality audits: 3					
Initiatives Related to High-Risk Raw Materials	Targeted companies: All suppliers of raw materials, including gold, tantalum, tungsten, and tin.*5 CMRT*6 collection rate: 100% Suppliers who have been determined to have a problem: 0% (We plan to include other high-risk raw materials besides the four mentioned above from fiscal 2020 onward.)					

- *1 Science Based Targets: Greenhouse gas emission reduction targets set by companies for the next five to 15 years in line with levels sought by the Paris Agreement
- *2 Scope 3: Emissions from the manufacturing and transportation of purchased raw materials
- *3 Covers suppliers accounting for 90% of greenhouse gas emissions from procured raw materials and other items based on weight.
- *4 Sustainable procurement rate: The percentage of Sumitomo Chemical Group Sustainable Procurement Check Sheets that were returned
- *5 Conflict minerals rules: From August 2012 onward
- *6 Conflict Minerals Reporting Template: A reporting template published by the Responsible Minerals Initiative (RMI)

For a Sustainable Future





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.

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 🔀

Sumitomo Chemical Group Sustainable Procurement Check Sheets

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



Promoting Sustainable Procurement throughout the Supply Chain

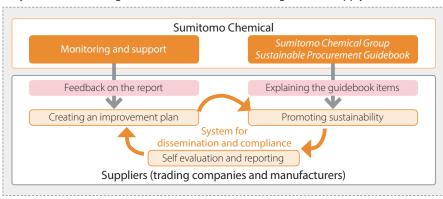
For a Sustainable Future

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 who need to follow-up on problems revealed by the monitoring, we furnish feedback to raise awareness of and cooperation in ensuring sustainable procurement.

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.

* Suppliers, who together account for the top 90% of the raw materials purchased in the previous fiscal year

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.

In addition, going a step further in our efforts to avoid procuring conflict minerals, we have defined not only conflict minerals but also raw materials that pose a high risk of causing a negative impact on human rights as high-risk raw materials, and formulated the Sumitomo Chemical Group Policy for Responsible Procurement of Minerals/Raw Materials. Going forward, we will plan and implement specific measures for sustainable procurement in accordance with this policy.

* Conflict Minerals Reporting Template: A reporting template published by the Responsible Minerals Initiative (RMI)

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.

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.

For a Sustainable Future

Basic Policy

'People' are a major source of corporate competitiveness, 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 focus on training so that employees can maximize their abilities.

Against this backdrop, the current Corporate Business Plan sets forth employing, developing and leveraging human resources to support sustainable development as one of its basic policies.

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.

Sumika 'Take Action' Declaration

We have set forth a number of important values and views that would make our employees find significance and feel pride in working at Sumitomo Chemical in the "Sumika Take Action' Declaration," and we are promoting this initiative so that they can lead healthy and fulfilling lives as employees, both mentally and physically. The first to third steps were declared as a joint labor-management declaration, the fourth step, declared with health insurance association, and the fifth step, as the company-wide declaration. Specific actions are set forth in five categories to promote this initiative.





Human Resources System Initiatives

For a Sustainable Future

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 performance evaluation system is 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 shortterm 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 to help increase their motivation and abilities.

Moreover, we have adopted a similar human resources and performance evaluation system for managers at overseas Group companies as for Sumitomo Chemical's managerial employees.

Philosophy and Aims of the Human Resources System





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 conducted in line with each employee's career goals, and employees take the reins when thinking about their careers.

CDF

F	ield 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.
F	ield 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.
F	ield 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.

For a Sustainable Future

(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 refers to those who have Fellows refers to those who, among the particularly outstanding expert knowledge Sumitomo Chemical researchers who have or capabilities, who are hard to replace in produced particularly outstanding research specific fields, and who can be expected to results on the basis of their high-level continue to make significant contributions expertise, and who are also recognized for in their field using that expertise their achievements outside the company, are expected to contribute significantly to the research activities of Sumitomo Chemical in the future

Communication with Employees

Sumitomo Chemical and its 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 Development>

Basic Policy

As the third number of the 'Take Action' Declaration, labor and management jointly announced the Sumika Development & Growth Declaration. We are promoting various measures aimed at carrying out the following five action items to help the Company and employees flourish together through development and growth.

Sumika Development & Growth Declaration Five Action Items

11) Invest in growth for everyone.

We will continue to invest in education, spending over three times the average among listed companies.

Current situation

Sumitomo Chemical's education-related investments: Around ¥400,000 per year per person

2 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.

Current situation

Company-wide average: Around 140 hours per year per person (8% of fixed work time)

(3) Support the desire to learn.

We support self-driven career development. We provide training programs that employees can select for themselves and learn anywhere, anytime and repeat as many times as they want.

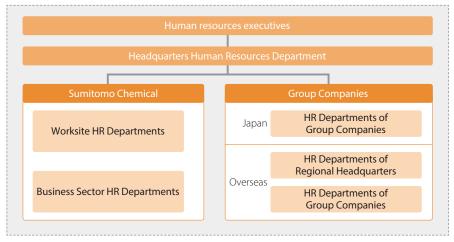
- (4) Use digital technology to accelerate growth!
 - Everyone from top management to regular employees can skillfully use the latest digital technologies and break through to a new phase as an organization or individual.
- (5) Allow people to take on challenges and demonstrate their growth.

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.

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 production, administration, and HR departments.

Promotion and Rollout of Company-wide Training Programs Overseen by HR Departments



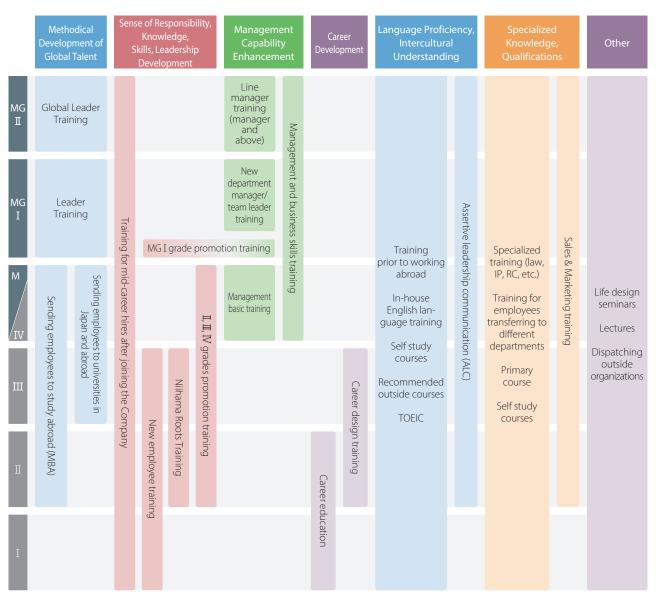
Environment



Targets and Results / Examples of Initiatives

We are working to enhance employee capabilities and develop human resources by implementing various training programs and measures for different purposes and employee classes.

■ 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



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.

For a Sustainable Future

■ Next-Generation Leader Development System



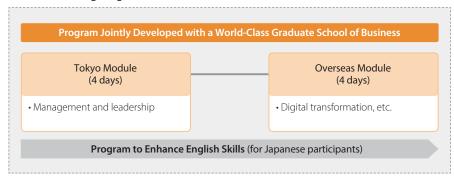
(1) Global Leader Training

In our Global Leader Training for general managers inside and outside of Japan, participants learn about management perspectives and insights through lectures and discussions featuring executive officers and external executives. They decide on their own topics and provide advice on the content of these specific initiatives to the president and others in management.

(2) Leader Training

In Sumitomo Chemical's Leader Training for managerial employees both inside and outside of Japan, Sumitomo Chemical has worked with an overseas graduate school of business to carry out a program in both Singapore and Japan, held in English, with the goal of developing the employees' conceptual strength and abilities to propose strategies for the creation of new value.

Leader Training Program



For a Sustainable Future



■ Human Resources Development and Human Resources System

(No. of people)

Name	Approach FY2		FY2018	FY2019
Trainer System	Highly skilled employees who have an aptitude for teaching provide instruction and advice to facilitate development.	65	42	48
Senior Training Advisor System	Supervisors and potential supervisors are provided OJT to develop core personnel for manufacturing departments	· · · · · · · · · · · · · · · · · · ·		8
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.	23	21	20
(2) Leader Training	Held in Singapore and Japan to develop the next generation of leaders, we conduct training programs in English.	28	27	27

■ Training for Development of Global Talent (for select participants)

FY2019 Results

Participants Average time 47 **88** hours per person

(breakdown: 42 men, 5 women)

Leadership and Management Skills Enhancement Training, Career Development Training (required for all eligible employees)

FY2019 Results

Participants Average time

1,005 12 hours per person

Enrollment rate of Enrollment rate of all eligible employees: all employees: 100%* **16.2**%

Looking Ahead

Sumitomo Chemical will continue to promote various measures for employee growth based on the five action items of the Sumika Development & Growth Declaration. We introduced a new personnel information integration solution called SUMIKA HR-BOX. We expanded online options for training programs. We will continue to take measures that let employees choose their own training contents and make learning a habit.

^{*} In the event that training cannot be taken during the employee's year of eligibility, it must be taken within three years.

For a Sustainable Future



<Diversity and Inclusion>

Basic Policy

Sumitomo Chemical has raised "promotion of diversity and inclusion" 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 diversity and inclusion and are promoting measures in line with the situation of each Group company.

Group Diversity and Inclusion Policy

We will promote diversity 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.

In addition, labor and management jointly announced the Sumika Diversity & Inclusion Declaration as the second number of the 'Take Action' Declaration. The Company has defined the following five action items and is promoting various measures to implement them in order to enable the Company and employees flourish together through diversity and inclusion.

Sumika Diversity & Inclusion Declaration Five Action Items

6 Active roles for both men and women!

We will ensure anyone can thrive in the workplace and enhance employee capabilities regardless of gender.

Relevant KPI: Women accounting for at least 10% of positions equivalent to manager or above by the end of 2022

① 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 2022

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.

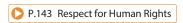
9 Encourage active roles for people with disabilities.

The Company and Sumika Partners Co., Ltd. have come together to provide an environment where people with disabilities can thrive.

(10) No harassment!

Aiming for complete eradication, we will not tolerate any form of harassment, including power harassment or sexual harassment.

Furthermore, we are promoting various initiatives to prevent physical and mental discrimination and harassment in work environments and to ensure that people of all different backgrounds can thrive.





Management System

For a Sustainable Future

In 2010, Sumitomo Chemical established a labor-management committee to promote diversity and inclusion as well as work-life balance. To this end, the committee shares information and exchanges opinions in addition to checking on the progress of efforts undertaken by labor and by management.

■ Labor-Management Committee Overview



Targets and Results / Examples of Initiatives

Diversity and Inclusion

To promote diversity and inclusion, the Group has set specific KPIs centered on basic principles related to diversity and inclusion for around 90 of the major Group companies. Moreover, when setting the KPIs, we established the following three points as Critical Success Factors for the promotion of diversity and inclusion.

◆ 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

Sumitomo Chemical (Non-Consolidated) KPIs

The Company aims to achieve the targets below during 2022:	
1. Have women in at least 10% of positions equivalent to managers or above	(April 2020: 5.8%)
2. Have <u>70% or more</u> of eligible male employees take childcare leave	(FY2019: 44.7%)
3. For employee opinion survey statements below, achieve an affirmative response rate of <u>80% or more</u>	
(1) The Company provides programs and a workplace environment that make it easy to combine work with childbirth, parenting, or caring responsibilities	(FY2019: 77.2%)
(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	(FY2019: 69.5%)
(3) The company enables female employees to demonstrate their full potential	(FY2019: 53.4%)



Promoting the Active Advancement of Women

We have focused on promoting the active advancement of women as a part of our diversity and inclusion 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

For a Sustainable Future

<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

• Mentor program (since fiscal 2012)

Regularly hold interviews with executives as mentors to help motivate female employees and expand their point of view. (roughly 1-hour sessions, 4 to 5 times per year)

Eligible employees: Female employees in positions equivalent to manager and up to general manager.

• Internal lectures to help promote diversity and inclusion (since fiscal 2013)

We hold lectures related to the significance of diversity and inclusion and the importance of providing growth opportunities through operations.

Eligible employees: Those holding positions equivalent to manager or above

• 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: New managers and team leaders (required training)

Positions equivalent to manager or above (voluntary training)

• Implement initiatives for the "Sumika 'Take Action' Declaration" (since fiscal 2019)

We have positioned promoting the active advancement of women and eliminating unconscious bias as an action item in the "Sumika 'Take Action' Declaration," in which we proclaim those values and views of importance to us as a company. To this end, we implement various relevant initiatives.

• E-learning related to unconscious bias (since fiscal 2020)

We hold e-learning training with the purpose of raising awareness and recognition related to overall unconscious bias. Eligible employees: All employees

☐ Human Resources Management



Target 2 At least 70% of male employees taking cessation from work for childcare

For a Sustainable Future

<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 Take Action' 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 Diversity and Inclusion

The former Vice Minister of Health, Labour and Welfare, Muraki Atsuko held an internal lecture for workplace managers (general managers, manager level employees, around 1,500 people), who are key to promoting diversity and inclusion in the workplace.

At the lecture, 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 to workplace managers aimed at further promoting diversity and inclusion.

Diversity Management Training

In fiscal 2019, as a trial, we held training sessions for HR team leaders at the Tokyo Headquarters (manager to general manager level employees, around 100 people) on two themes: comprehending unconscious bias and practicing conflict management. Going forward, we intend to continue rolling out this training to all worksites.

Activities Related to the Women's Empowerment Principles (WEPs)

Sumitomo Chemical signed the Women's Empowerment Principles (WEPs). The Company is working to increase gender equality in Japan and conducting activities to promote these principles, such as by taking on the role of a managing company in the WEPs subcommittee of Global Compact Network Japan (GCNJ).



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Achievements in Diversity and Inclusion (Sumitomo Chemical)

Name	Concept	FY2017	FY2018	FY2019	FY2020
Number of women in positions equivalent to manager or above*1	In order to promote the success of female employees,	85	96	99★	113
Percentage of women in positions equivalent to sectional manager or above (%)*1	 Sumitomo Chemical sets quantitative targets regarding the ratio of women in positions equivalent to sectional manager or above and systematically promotes female employees. 	4.5	5.1	5.2★	5.8
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 four of our group companies receiving approval as special affiliated companies as of June 2019.	2.06	2.24	2.41*	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.		92.6	89.0	TBD*4

^{*1} As of April 1 of each fiscal year

^{*2} As of June 1 of each fiscal year

^{*3} As of March 31 of each fiscal year

^{*4} Calculation is slated at March 31, 2021



<Work-Life Balance>

Basic Policy

For a Sustainable Future

We aim to raise productivity by ensuring each employee feels greater motivation and a deeper sense of fulfillment while maintaining a better work-life balance. We are working to foster a workplace environment where it is easy to work, mainly by introducing a flextime program and establishing daycare facilities at worksites.

In line with the Sumika Work-Life Balance Declaration within the 'Take Action' Declaration, the Company has defined the following five action items and is promoting various measures to implement them.

Sumika Work-Life Balance Declaration Five Action Items

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).
- Prohibit business instructions that world 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.

Management System

For management systems for work-life balance, refer to the management systems for promoting diversity and inclusion.

P.162 Diversity and Inclusion, Management System

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 set out the following measures to achieve these targets.



Action Plan to Reform Workstyles

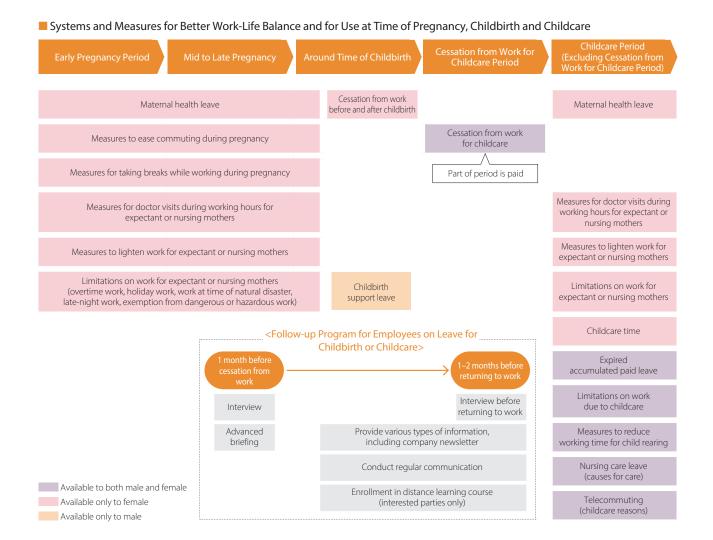
Sumitomo Chemical Sustainability Data Book 2020

	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 Al 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 Take Action' Declaration" We declared details related to work-life balance in the "Sumika Take Action' 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 Take Action' Declaration" We declared details related to work-life balance in the "Sumika Take Action' 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	 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 	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.
	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?	C. Promote initiatives under the "Sumika Take Action' Declaration" We declared details related to work-life balance, diversity and inclusion in the "Sumika Take Action' 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	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.







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Results of Systems for Work-Life Balance (Sumitomo Chemical)

(No. of people)

					(140. of people)
Syst	em/Measure		FY2017	FY2018	FY2019
	Cessation from work for childcare	Total	304	336	420★
		Male	175	233	315★
		Female	129	103	105★
		Percentage of men*1	18.7	37.6	44.7
Chilo	Cessation from work for nursing care		3	1	2
Childcare/Nursing	Nursing care leave		153	180	181
N	Childbirth support leave		237	188	194
rsing	Maternal health leave		48	52	55
	Expired accumulated paid leave*2		72	110	132
Support	Reduced working hours system		134	162	152
	Telecommuting* ³		22	28	30
	Reemployment system*4		8	10	7
	In-house childcare facilities*5		167 (118)	171(123)	156(113)
	Mutual aid association support money for childcare*6		211	242	241
Other	Suspension from work for special reasons for employees accompanying spouses going or	n overseas transfer*7	9	6	4
her	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 (Because we changed the calculation base date, we retroactively revised previous fiscal years' figures.)
- *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

Employee Awareness Survey

Every three years, 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.

FY2019 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 satisfied with working at the Company.	4.0
l 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.*	4.2
Going forward, I want to work at the Company.	4.3

^{*} Average rating by women who have children of elementary school age or younger

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.



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.

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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

Looking Ahead

Regarding the KPIs set so that the Sumitomo Chemical Group works together to promote diversity and inclusion and work-life balance, we will check progress made under the Corporate Business Plan and actively work to achieve the goals laid out.



<Healthcare>

Basic Policy

For a Sustainable Future

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.

In addition, the Company and its health insurance association present the Sumika Healthy Employee Declaration as the fourth "Sumika 'Take Action' Declaration." We have put forward the slogan of "Good health is a prerequisite for good work and a good life!," and we are working on specific action plans in five areas: food, exercise, sleep, quitting smoking, and mental health.

Sumika Healthy Employee Declaration Five Action Items

(6) 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 quidance
- Introduced dishes full of vegetables at the employee cafeteria

TEXERCISE a little and stay healthy forever!

Use down time to exercise regularly every day.

Goal: 10,000 steps per day

- Establish or enhance training facilities at each worksite
- Everyone should work out together after lunch.

(8) 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

- \bullet Supervisors and subordinates should directly communicate with each other at least once a day
- Practice mindfulness 10 minutes per day

Management System

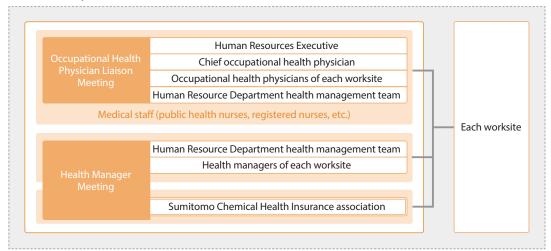
At the annual occupational health physician liaison meeting, the chief occupational health physician and the occupational health physicians of each worksite hold discussions and decide on Company-wide measures and targets. In addition, the occupational health physicians, medical staff (public health 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 measures taken at each worksite are shares and the results are assessed. The Health Management Promotion Committee shares financial information, including that related to medical fees and the health-care 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



For a Sustainable Future

Targets and Results

After analyzing medical examination results and medical interview responses, we set quantifiable targets, such as improving the rate of positive findings, 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 third 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.



Examples of 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, including for Group companies. Sumitomo Chemical implements in cooperation with its health insurance associations specified health checkups and specified health guidance which are required of the health insurance associations to implement by law and periodical medical examination. We analyze these results and questionnaire responses to study employee health. As a result, the Company has expanded the eligible age range for specified health guidance to include all ages as we work to prevent lifestyle disease with the goal of 100% of employees receiving such guidance.

In addition, we ensure employees get better sleep through programs to improve sleep habits under the guidance of experts who use sleep monitoring devices to observe employees' while sleeping so as to be able to visualize their sleeping issues. This leads to improved health outcomes and helps employees give their best performance. With the amendment of the Health Promotion Act, we have banned smoking as a general rule during work hours and on the Company's premises, and the Group's health insurance association is supporting employees' smoking cessation efforts through specialized programs.

In addition, 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 2019, medical counseling and environmental evaluations were implemented twice in Saudi Arabia, twice in China, and once each in Belgium, France, Singapore, and South Korea.

For a Sustainable Future

□ 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.

Looking Ahead

Sumitomo Chemical will continue creating and implementing various initiatives to maintain and promote the health of employees in line with the Sumika Healthy Employee Declaration. 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.



Basic Stance

Reflecting the core principle of "Making safety our first priority," Sumitomo Chemical 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 Sumitomo Chemical employees and all involved parties, including partner companies, are thus united in promoting safety activities with the goal of eliminating all accidents. Furthermore, the Company undertakes stringent process risk assessments of the entire product 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; to minimize damage in the event of a natural disaster such as a major earthquake; and to secure the safety and peace of mind of employees and local communities.

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 PriorityRaison 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.80 Organization of Responsible Care



Occupational Safety and Health / Industrial Safety and Disaster Prevention

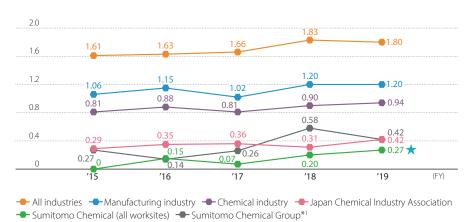
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Goals and Results

<Occupational Safety and Health>

The Sumitomo Chemical Group*1 targets a frequency rate of lost-workday injuries of under 0.1, but its rate was 0.42 in fiscal 2019, down 0.16 year on year, failing to meet the target. Moreover, while the Group has set a goal of zero severe accidents,*2 it recorded one in fiscal 2019, one less than the previous fiscal year, failing to meet the target. In fiscal 2019, the number of lost-workday injuries was 27, a decrease of 8 year on year.

Frequency Rate of Lost-workday Injuries



■ Lost-workday Injuries (Sumitomo Chemical Group*1)

	FY2015	FY2016	FY2017	FY2018	FY2019
Number of lost-workday injuries	17	9	17	35	27

< Industrial Safety and Disaster Prevention>

The Sumitomo Chemical Group*1 achieved the target of "no severe industrial accidents"*3 in fiscal 2019 (zero severe industrial accidents in the five consecutive years since fiscal 2015). We see this as evidence of the success of our straightforward daily activities on the frontlines as well as the steady enhancement of our industrial safety management level.

However, there was one industrial accident, which is a minor accident whose scale does not reach that of a severe industrial accident, in fiscal 2019. We will work to enhance industrial safety management and quickly share the causes of the minor industrial accident and the lessons learned across the entire Sumitomo Chemical Group.

^{*1} The Sumitomo Chemical Group as defined for occupational safety and health, industrial safety, and disaster prevention: Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.

^{*2} 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.

^{*3 &}quot;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



Occupational Safety and Health / Industrial Safety and Disaster Prevention

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 construction partner companies that enter our Works by distributing pocket-size booklets 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 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 2019.

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 2019 to Fiscal 2021 Medium-Term Plan for Responsible Care Activities" and "Fiscal 2020 Annual Responsible Care Policy" is to respond to changes in employment structure, work to establish a foundation of safety ensure work safety and health, and promote measures to prevent severe accidents in subcontracted operations and construction operations. We also conduct thorough risk assessments.



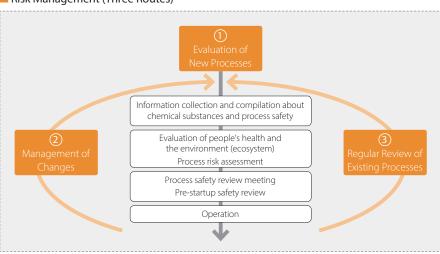
Occupational Safety and Health / Industrial Safety and Disaster Prevention

< 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 Guidelines, 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.

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.



Occupational Safety and Health / Industrial Safety and Disaster Prevention

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 Sumitomo Chemical 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.

Occupational Safety and Health / Industrial Safety and Disaster Prevention 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.

FY2019 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 Guidelines")	Sumitomo Chemical (all worksites)	795
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)	91
			Group companies in Japan	5
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)	164
			Group companies in Japan	45
Company-wide Safety Education	Group training	Training that covers the latest topics each fiscal year (The training in fiscal 2019 involved defining process hazard scenarios and static electricity safety.)	Sumitomo Chemical (Works, research laboratories)	80*2
			Group companies and partner companies within Sumitomo Chemical (Works, research laboratories)	25
HAZOP*1 Training	Group training	Training personnel to learn the basics of HAZOP and to be able to conduct HAZOP	Sumitomo Chemical (Works, research laboratories)	68
			Group companies in Japan	0
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)	19

^{*1} 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.

^{*2} Training was postponed at some worksites to help prevent the spread of COVID-19.

Environment



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 (why and what analysis, 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, 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 (84 companies at 116 locations) 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 logistical centers (transport and storage) and marine transport-related operations nationwide. The Council is expanding the Logistics Department's Responsible Care activities.

In fiscal 2019, there were five lost-workday injuries related to safety and health. Fortunately, none of these injuries could possibly have led to a severe accident, but 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 land and marine transport of hazardous substances, and strictly ensure the rules are followed. We built a system where we can cooperate with logistics subcontractors even during critical times when an accident occurs to quickly arrive at the crisis site and address the situation. Moreover, we strengthened the system from July 2019 by joining the Hazardous Materials Emergency Response Service of the Maritime Disaster Prevention Center.

Lost-workday Injuries in Logistics

	FY2015	FY2016	FY2017	FY2018	FY2019
Number of cases	3	0	0	1	5

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

For a Sustainable Future

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.

To achieve the 2020 goal*2 proposed at the World Summit on Sustainable Development (WSSD) in 2002, it is now time for chemical management to be risk-based in regard to laws and regulations as well as company efforts to promote product stewardship on a global basis.

To achieve the 2020 goal, 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.

- *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.

Environment



Product Stewardship / Product Safety / Quality Assurance

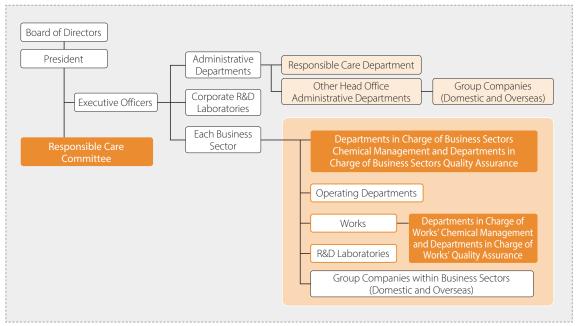
For a Sustainable Future

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



Environment



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.142 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, having pledged to systematically conduct appropriate risk assessments for its products manufactured or sold in annual amounts of one ton or more by fiscal 2020 in line with 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. In fiscal 2019, 13 new summaries were released, bringing the total publicly available safety summaries to date up to 57 (covering 56 substances).

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.



Product Stewardship / Product Safety / Quality Assurance

For a Sustainable Future

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)*1 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 2019, we performed 73 risk assessments, including 38 reassessments. Going forward, we will continue to conduct rigorous risk assessments of new products and steadily proceed with reassessments of products already on the market. By fiscal 2020, we plan to complete risk reassessments of all our products. In addition, we are supporting Group companies in conducting similar product risk assessments and countermeasures.

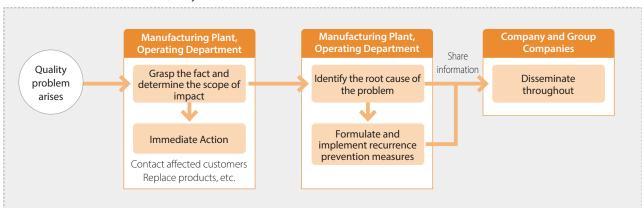
*1 FMEA: A systematic method of analysis for detecting potential malfunctions and defects with the objective of their prevention

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*2 and GMP,*3 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



However, in fiscal 2019, there were three major product quality problems recorded by the Sumitomo Chemical Group. Working to determine the causes underlying these problems, we are promoting strict preventive measures.

We are also improving quality assurance (including quality compliance) for the entire Group by widely disseminating information on responses to quality problems that arise within the Group and sharing activities and information related to product quality and 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.

^{*2} ISO 9001: The international standards on quality management systems issued by the International Organization for Standardization (ISO).

^{*3} Good Manufacturing Practice (GMP): Guidelines relating to manufacturing and quality management of pharmaceuticals



Sumitomo Chemical Sustainability Data Book 2020

Product Stewardship / Product Safety / Quality Assurance

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.

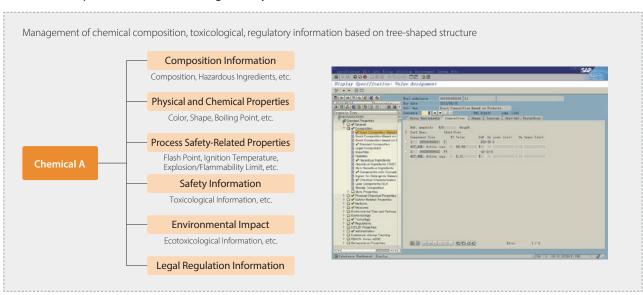
In fiscal 2019, there were no reports of violations of regulations for Sumitomo Chemical products and services at any stage of their life cycles.

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 SDS*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 13 Group companies in Japan and overseas as of fiscal 2019. In addition, we began 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



☐ Product Stewardship / Product Safety / Quality Assurance



Product Stewardship / Product Safety / Quality Assurance

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.

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.

*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.

Latest Emergency Issue

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 is working to achieve its goal of completing product safety risk assessments of all Group products and confirming the effectiveness of related strategies and measures by fiscal 2020.

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).

To improve customer satisfaction, the entire Group will continue to work to sustain its product and service quality improvements and to achieve an optimal product quality assurance system amid changing business conditions.



Responsibility to Our Customers

For a Sustainable Future

Basic Stance

Throughout the Group, Sumitomo Chemical is working to supply high-quality products and services that satisfy customers' needs and ensure safety in their use, and sales managers and customer consultation offices provide support tailored to products and specific details.

Business & Products

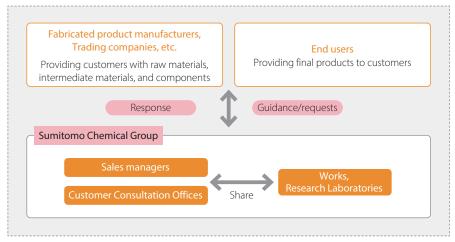
https://www.sumitomo-chem.co.jp/english/products/



Management Framework

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





Examples of Initiatives

For a Sustainable Future

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 Dainippon 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 Dainippon Pharma's Compliance Standard for more details.)

https://www.ds-pharma.com/profile/compliance/pdf/20190401_ecogl1.pdf

Contribution to Global Health

🚺 https://www.ds-pharma.com/csr/global_health/contribution_to_global_health.html 🛭 🗗

Initiatives to Improve Access to Medicines

https://www.ds-pharma.com/csr/global_health/improvel_access.html 🗗

Transparency in Partnerships with Patients and Medical Institutions

https://www.ds-pharma.com/csr/patients_medical_personnel/promotion.html

Conduct training of employee

https://www.ds-pharma.com/csr/esg/csr_data.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.



Basic Stance

Based on the concept of contributing to establishment of sustainable society through achieving sustainable growth of business, the Sumitomo Chemical Group is committed to social contribution activities undertaken from the perspectives of solving global problems and coexistence with local communities.

Regarding communication with society, in order to enhance information disclosure while engaging in interactive dialogue, Sumitomo Chemical, its worksite in Japan and overseas, and Group companies engage in a variety of activities to meet the needs of local communities, thereby building good relations with them.

Sumitomo Chemical's Social Contribution Activities

	Community Contribution	Global Contribution
Coguring	Work and research laboratory tours RC dialogues and distribution of local newsletters	Malaria prevention campaign, Donating Olyset™ Nets
Securing Safety and Health,		Investment in the World Bank's BioCarbon Fund
and Protecting		TABLE FOR TWO program
the Environment		Matching Gift program (support for tree-planting activities)
		Cooperation with U.N. activities
	Establishment of in-house childcare facilities	Educational support in Africa
	Launch of Young Inventors' Club, Science Workshops, etc.	University scholarship programs
Raising Children	Sponsorship of community sports events for children	
who will Lead	Cooperation on civic and university courses	
the Next Generation	Acceptance of	student interns
	Matching Gift program (educational and developmental support for children)	
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

Based on the above chart laying out our social contribution activities, we are promoting various activities throughout the entire Sumitomo Chemical Group, including Sumitomo Chemical's Head Office, each worksite, and each Group company. To further encourage such activities across the Group, once per year, we hold global meetings for managers from the regional headquarters established in each of the world's four regions, regional meetings in each region, and manager meetings attended by sustainability 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 President Meetings and 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.

Environment



Goals and Results

The results of the main social contribution activities undertaken by Sumitomo Chemical and its Group companies are as follows.

■ FY2019 Main Social Contribution Activities at Bases in Japan (Sumitomo Chemical*1)

For a Sustainable Future

Type of Activity	Number of Events
Science classes held at schools, children tours, hands-on work experiences	41
Exhibits at chemistry experiment events	10
Cleaning beaches and neighborhoods around worksites	36
Worksite tours, community dialogues, hands-on work experiences	56
Hosting and participating in regional sports competitions, festivals, and other events	17

^{*1} Include some Group companies in Japan

■ Support for Education in Africa (Sumitomo Chemical) As of April 30, 2020

Country and number of recipients	Type of support
Uganda (Recipients: 839)	Built classrooms and restrooms for elementary schools Supplied math and science teaching materials Raised awareness of malaria prevention techniques and provided preventive healthcare training
Ghana (Recipients: 1,624)	Built science laboratories for technical high schools Supplied equipment for biology, chemistry, and physics experiments and provided training to teachers
Nigeria (Recipients: 2,820)	Supported the set-up of Information and Communications Technology (ICT) centers Provided computer peripheral equipment and other devices and installed solar power equipment Supported the set-up of an education center for childcare and preschool education

■ Volunteers for the OISCA Coastal Woodland Rejuvenation Project (Sumitomo Chemical Group*2)

			(No. of people)
	FY2017	FY2018	FY2019
Number of volunteers for the OISCA coastal woodland rejuvenation project*3	20	20	23

 $^{^{*}2\,}$ Sumitomo Chemical and Group companies in Japan participating in the Matching Gift program

P.195 Support for Recovery from the Great East Japan Earthquake

^{*3} Volunteer activities in Natori, Miyagi Prefecture

Communities Communities



Examples of Initiatives

Assuring Safety, the Environment, and Health

Holding Interactive Dialogue with Local Communities

To maintain ties with local communities, Sumitomo Chemical regularly sets up opportunities to interact with various local stakeholders, including municipalities and school officials. These opportunities range from plant tours and dialogue meetings to opinion exchanges and other more casual events.

In local dialogue meetings, we strive to deepen mutual understanding by moving conversations ahead with explanations to neighboring residents about the environmental and safety measures we have in place. In addition, we promote smooth communication with communities by holding plant tours and briefings for each worksite.

Moreover, each worksite engages in a variety of risk communication and dialogue activities for various purposes. These include risk communication model projects carried out jointly with local governments, environment and safety support projects for domestic and overseas governments and businesses, regular meetings with local residents, and dialogues with the community based on cooperation with the chemical industry. At the Company's head office, Sumitomo Chemical participates in a range of committee activities conducted by the national government and industrial associations as well as in industry-governmentacademia seminars and lectures to disseminate relevant information and exchange opinions in a timely manner. The overall aim is to help people deepen their understanding of Sumitomo Chemical and to secure the society's trust in us.

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

FY2019 Results*

Number of dialogues held **Participants**

35 374

* Cumulative result of each Sumitomo Chemical worksite

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

Environment



Information Disclosure Rooted in Local Communities

At Sumitomo Chemical, each worksite publishes a Report on the Environment and Safety every year to report on its local activities in detail. The reports complement the Company's own Sustainability Data Book (this publication). In addition, the Ehime, Osaka, and Oita worksites each publish local newsletters for the proactive distribution of area-specific information. These are often delivered to residents as newspaper inserts.

Report on the Environment and Safety (at all worksites)

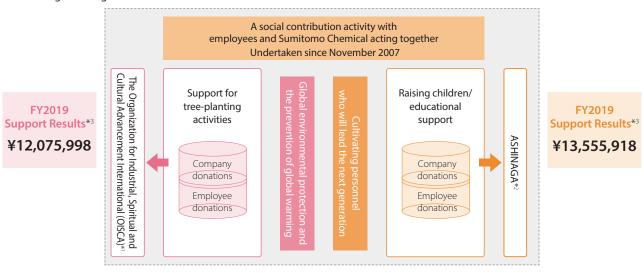
https://www.sumitomo-chem.co.jp/sustainability/library/ (Japanese only) 💋

Matching Gift Program

As a social contribution activity with employees and the Sumitomo Chemical Group acting together since fiscal 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.

<Sumitomo Chemical Forest>

In an effort to prevent global warming and conserve biodiversity, the Company worked with the NGO OISCA since 2008 to plant mangroves in Ranong Province, Thailand. The area that received our support was dubbed the Sumitomo Chemical Forest. Local Thai residents carried out daily planting and management, and the Company provided financial support for the project through its matching gift program. In addition, a total of 179 employees, including those from Group companies in Japan and overseas, participated as volunteers over the years. The forested area has now recovered to the point that it is self-sustaining, and the initiative was brought to a close in March 2019.

Support Results	
Total forest area*	Total trees planted
270 hectares	828,000
* Total figures are for the period be	etween 2008 and March 2019

^{*3} Sums after matching by the Company

Communities Communities



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.

For a Sustainable Future

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.

In fiscal 2019, Sumitomo Chemical ranked 16th of 589 participating companies in terms of amount of money donated. In May 2020, we received a letter of appreciation as a Platinum Supporter from the TFT secretariat.

FY2019 Results

¥2,046,640*

51,166 meals

* Sums after matching by the Company

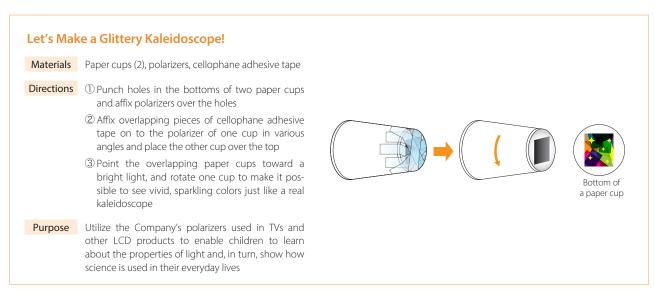
Nurturing the Children of the Next Generation

Supporting Education through Science Workshops

The Sumitomo Chemical Group holds science workshops for children to conduct experiments and make crafts with the Group's products. 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 everyday products are linked to chemicals.

We conducted these science workshops during plant tours and at the visiting classes at neighboring schools. We also participate in events held in local communities. In fiscal 2019, we had an exhibit at the Children's Chemistry Experiment Show (organized by the Dreams & Chemistry 21 Committee) held in Tokyo and Kobe, with employees from worksites in Tokyo and the Kansai region serving as instructors. To help children understand the inspiring nature of the chemical industry, they held science workshops that incorporated kaleidoscope-related crafts using Sumitomo Chemical polarizers.

Going forward, we will continue holding science workshops to pique an interest in chemistry among as many children as possible.





Support for Education in Africa

We believe that in order to break free from poverty and achieve sustainable economic development, Africa needs to build a better educational environment for children. Since 2005, Sumitomo Chemical has been conducting educational support activities centered on the construction of primary and secondary school buildings and related facilities to support children, on whom the continent's future rests.

For a Sustainable Future

As a result of collaborations with the Nigerian Oando Foundation, the World Vision Japan and Plan International Japan, we have to date completed 29 projects in 12 African nations and improved the educational environments of more than 29,000 children.

In fiscal 2019, in Uganda, we supplied math and science teaching materials, raised awareness of malaria prevention techniques, and offered preventive healthcare training in addition to building classrooms and restrooms for elementary schools. Also, in Ghana, we built three science laboratories fitted out with warehouses and preparation rooms for technical high schools, provided equipment for biology, chemistry, and physics experiments, and conducted training for teachers to teach those subjects. In Nigeria, we strove to further improve learning environments by providing aid to build Information and Communications Technology (ICT) centers at two elementary schools as well as computer peripheral equipment and other devices. We also installed solar power generation equipment and provided aid to found an education center for childcare and preschool education.

Support for Education in Africa



Support Results

Beneficiaries: over **29,000** people

Supported countries: 12 (29 projects completed, 2 projects* under way)

* The two projects under way are in Ghana and Nigeria (as of April 30, 2020)



Assisting in Natural Disaster Relief

Support for Areas Recovering from the Torrential Rains of Typhoons Faxai and Hagibis

For a Sustainable Future

To provide relief for rain damage from Typhoon Hagibis, we donated money through the Japan Red Cross, and executives and employees of all worksites donated daily essentials in support of the call from the Keidanren's One-Percent Club.

To help provide support for the areas recovering from the torrential rains of typhoon Faxai and Hagibis, Chiba Works donated tarps and other supplies to the cities of Ichihara and Sodegaura.

Support for Areas Recovering from the Torrential Rains of Typhoons Faxai and Hagibis

Support Details

- Donated ¥3 million through the Japan Red Cross
- Donated 5,000 items (including 1,312 towels) that were solicited by the Keidanren's One-Percent Club (Head Office and worksites, including those of Group companies)
- Donated tarps and other supplies to the cities of Ichihara and Sodegaura (Chiba Works)

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. These woodlands were damaged by the tsunami caused by the Great East Japan Earthquake. Since fiscal 2015, we have dispatched employee volunteers to the area. In fiscal 2019, we dispatched 23 volunteers who provided black pine saplings, planted trees, and weeded and fertilized areas where trees were planted with the aim of rejuvenating about 100 hectares of coastal woodland.

Looking ahead, we will support the recovery of disaster-affected areas through a wide variety of activities.

FY2019 Results

Disaster Hit Area Support Meals

¥638,520*

15,963 meals

* Sums after matching by the Company

¥313,480 7,837 meals Iwate Learning Hope Fund

(the portion used between March 2019 and August 2019)

The Great East Japan Earthquake

8,126 meals ¥325,040 Miyagi Children's Education Fund

(the portion used between September 2019 and February 2020)

Examples of Social Contribution Activities (Japanese only)

🌔 https://www.sumitomo-chem.co.jp/sustainability/files/docs/social_contribution_activities.pdf 🛂

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 from three perspectives: securing safety, a sound environment, and health; nurturing the children of the next generation; and assisting in natural disaster relief.



Social Activities: Supplementary Data

For a Sustainable Future

🖈: Assured by an independent assurance provider

1 Human Resources

Basic Data

■ Number of Employees, Average Age, Length of Service, Average Compensation (Sumitomo Chemical Group)

Item			FY2017	FY2018	FY2019
	Total		31,837	32,542	33,586★
	Total	Male	24,015	24,483	25,005★
Number of employees (Sumitomo Chemical Group)		Female	7,822	8,059	8,581*
		Percentage of female employees (%)	24.6	24.8	25.5
	Total	3 , , , ,	6,005	6,096	6,214*
	***************************************	Male	5,107	5,182	5,269*
Sumitomo Chemical		Female	898	914	945★
		Percentage of female employees (%)	15.0	15.0	15.2
	Total		11,801	11,965	12,292*
	***************************************	Male	9,165	9,272	9,521*
Consolidated in Japan		Female	2,636	2,693	2,771★
		Percentage of female employees (%)	22.3	22.5	22.5
	Total		14,031	14,481	15,080*
Caraclidated	***************************************	Male	9,743	10,029	10,215★
Consolidated overseas		Female	4,288	4,452	4,865★
		Percentage of female employees (%)	30.6	30.7	32.3
Number of non-Japanese employees (Sumitomo Chemica	al)		93	82	78
			40.3	40.7	40.9
Average age (Sumitomo Chemical)		Male	40.4	40.8	41.1
		Female	40.0	40.2	40.1
			14.4	14.9	15.3
Average length of service (years; Sumitomo Chemical)		Male	14.5	14.9	15.4
		Female	14.4	14.6	14.5
Average annual compensation (yen; Sumitomo Chemical)			8,715,094	9,035,111	8,906,426
			310,600	319,721	323,872
Average monthly wages (yen; Sumitomo Chemical)		Male	309,740	319,342	324,170
		Female	314,554	321,456	322,537

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 wages are for non-managerial employees (as of August of each year).





Sumitomo Chemical Sustainability Data Book 2020

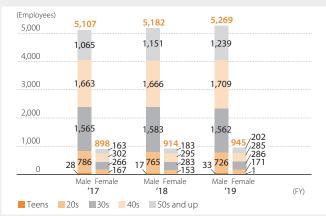
Social Activities: Supplementary Data

■ Number of Employees by Region and Gender (Sumitomo Chemical Group)

Region		FY2017	FY2018	FY2019
	Total	17,805	18,060	18,505
Japan	Male	14,271	14,453	14,789
·	Female	3,534	3,607	3,716
	Total	10,260	10,661	10,825
(The rest of) Asia	Male	7,506	7,770	7,788
	Female	2,754	2,891	3,037
	Total	2,886	2,926	3,214
North America	Male	1,609	1,648	1,730
	Female	1,277	1,278	1,484
	Total	151	163	191
Central and South America	Male	104	108	130
	Female	47	55	61
	Total	518	509	618
Europe	Male	346	344	429
	Female	172	165	189
	Total	132	132	134
Middle East and Africa	Male	98	91	93
	Female	34	41	41
	Total	85	91	99
Oceania	Male	81	69	46
	Female	4	22	53
Total	Total	31,837	32,542	33,586

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 (Sumitomo Chemical)

Results		FY2017	FY2018	FY2019
	Male	140	108	138
New graduate hires	Female	22	38	51
	Total	162	146	189
	Male	48	40	27
Mid-career hires	Female	0	11	8
	Total	48	51	35

■ Number of Internships (Sumitomo Chemical)

Results	FY2017	FY2018	FY2019
University students in Japan	474	675	483
University students overseas	14	8	4

■ Number and Percentage of People who Left the Company (Sumitomo Chemical)

	FY2017			FY2018			FY2019		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Retired early	71	62	9	89	62	27	62	53	9
Early retirement rate (%)	1.2	1.2	1.0	1.5	1.2	2.9	1.0	1.0	1.0

Note: Since the calculation standards have been changed, the data has been retroactively revised in previous fiscal years

■ Retention of New Graduate Hires (Sumitomo Chemical)

	Male	Female
New graduate hires in April 2017	102	17
Number of those remaining as of April 2020	94	17
Retention rate of new graduates after three years (%)	92.2	100.0



Promotion of Diversity and Inclusion

Promotions of Employees (Sumitomo Chemical) As of April 1, 2020

	Female	Male	Non-Japanese	Percentage of Female (%)
Managerial employees*	113	1,846	16	5.8
(Those ranked general manager or above)	12	497	2	2.4
Directors and senior management	2	46	4	4.2
(Those ranked executive officer or above)	1	36	4	2.7

For a Sustainable Future

■ Number and Percentage of Female Managers (Sumitomo Chemical Group)

	_			
		FY2017	FY2018	FY2019
Male		8,258	8,378	8,594
Female		1,410	1,455	1,743
Total		9,668	9,833	10,337
Percentage of female managers (%)		14.6	14.8	16.9

Note: As of March 31 for each fiscal year

Work-Life Balance

Percentage of Paid Vacation Days Used (Sumitomo Chemical)

	FY2017	FY2018	FY2019
Number of days of paid vacation provided	20	20	20
Number of days of paid vacation used	13.4	14.3	14.7
Percentage of paid vacation days used (%)	67.2	71.8	73.9

Average Overtime Work (Sumitomo Chemical)

			(Hours/Month)
	FY2017	FY2018	FY2019
Average overtime hours	20.2	21.2	20.7

Return Rate of Female Employees who Take Cessation from Work for Childcare (Sumitomo Chemical)

			(%)
	FY2017	FY2018	FY2019
Of employees who finished childcare leave within the fiscal year, percentage of employees who returned to work	100.0	98.1	100.0

^{*} All employees equivalent to managers or above



Sumitomo Chemical Sustainability Data Book 2020

2 Occupational Safety and Health / Industrial Safety and Disaster Prevention

Occupational Safety and Health Management System*

In April 2020, the Company's Osaka Works acquired certification from the Japan Industrial Safety and Health Association (JISHA) for the international standards ISO 45001 and JISQ 45100, which added requirements related mainly to daily safety and health activities to ISO 45001 (JISQ 45001), and is conducting operations accordingly. We are making preparations toward acquiring certification for ISO 45001 and JISQ 45100 at other worksites as well.

By fiscal 2009, Sumitomo Chemical acquired OSHMS certification from JISHA at all of its Works and Research Laboratories. Afterward, some worksites switched to independent operations, and currently 3 Works and 1 Research Laboratory maintain certification. (JISHA's OSHMS includes the same requirements as OHSAS18001.)

JISHA's Official Websites

Japanese: https://www.jisha.or.jp/about/index.html

English: https://www.jisha.or.jp/english/index.html

Analysis

English: https://www.jisha.or.jp/english/index.html

English

Acquisition of ISO 45001 and JISQ 45100 Certification (Sumitomo Chemical)

Facilities	Certificate Number Certific	
Osaka Works	ISO 45001: JISHA-O-31	April 2020
Osaka Works	JISQ 45100: JISHA-31	April 2020

Acquisition of JISHA's OSHMS Certification (Sumitomo Chemical)

Facilities	Certificate Number	Certification Date
Chiba Works	03-12-1	May 2003
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
Oita Works	06-44-1	July 2006
Ohe Works	10-38-4	March 2010
Health & Crop Sciences Research Laboratory	007-28-95-8-3	January 2007

^{*} Applicable scope of the Occupational Safety and Health Management System: Employees and dispatch employees who work at the Company's Works and Research Laboratories



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

For a Sustainable Future

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, 2020)

For a Sustainable Future

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	A lost workday accident occurred in January 2020. Working to reach the target of 3 million work hours.
Ohe Works*2	3 million hours	A lost workday accident occurred in March 2019. Working to reach the target of 3 million work hours.
Chiba Works	3 million hours	A lost workday accident occurred in February 2020. Working to reach the target of 3 million work hours.
Osaka Works	3 million hours	Working to reach the target of 18 million work hours.
Oita Works*3	1.5 million hours	A lost workday accident occurred in March 2020. Working to reach the target of 1.5 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 60 months.
Tsukuba Regional Research Laboratory*4	30 months	Working to reach the target of 390 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 September 2019. Working to reach the target of 24 months.
Ehime Logistics Association (Logistics)	24 months	A lost workday accident occurred in June 2019. Working to reach the target of 24 months.
Ohe Association (Plant maintenance)	48 months	Working to reach the target of 144 months
Ohe Logistics Association (Logistics)	48 months	Working to reach the target of 144 months
Chiba Association (Plant maintenance)	24 months	Working to reach the target of 48 months
Chiba Logistics Association (Logistics)	24 months	A lost workday accident occurred in October 2019. Working to reach the target of 24 months.
Osaka Association	24 months	Working to reach the target of 48 months
Oita Association	24 months	Working to reach the target of 120 months
Okayama Association	48 months	Working to reach the target of 48 months
Gifu Association	48 months	Working to reach the target of 144 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 and Energy & Functional Materials Research Laboratory (Tsukuba).





Social Activities: Supplementary Data

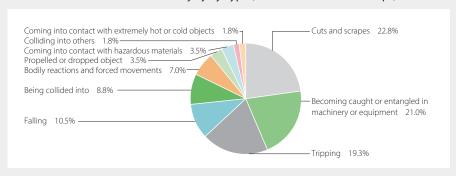
Safety Achievements

Sumitomo Chemical Sustainability Data Book 2020

■ Lost-Workday Injuries (Sumitomo Chemical Group*)

	FY2016	FY2017	FY2018	FY2019
Number of lost-workday injuries	9	17	35	27
Frequency rate of lost-workday injuries	0.14	0.26	0.58	0.42
Number of fatal accidents	0	2	1	0
Number of fatal accidents (contract employees)	0	0	1	0

FY2019 Breakdown of Causes of Injury by Type (Sumitomo Chemical Group*)



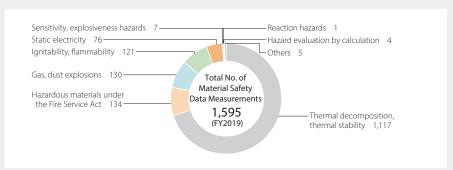
^{*} Sumitomo Chemical (including contractors) and consolidated Group companies in Japan and overseas.

□ Social Activities: Supplementary Data

Sumitomo Chemical Sustainability Data Book 2020

Industrial Safety and Disaster Prevention Results

Results of Material Safety Data Measurements (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 2019, 1,470 material safety data measurements were taken from within Sumitomo Chemical and 125 measurements were taken from Group companies for a total of 1,595.

■ The Launch of Several Process Safety Review Committees (Sumitomo Chemical)

	R&D stages		Ind	lustrialization sta	age
Fiscal Year	Level 1	Level 2	Level 3	Level 4	Level 5
2016	14	33	37	81	17
2017	25	19	27	88	47
2018	24	38	27	91	24
2019	25	17	30	67	21

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	20,153	(Increased by 471)
Accident cause investigations	2,445	(Increased by 45)
Accident information	20,777	(Increased by 180)
As of March 31, 2020	43,375	(Increased by 696)

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 2020, 43,375 sets of data were stored in the database (42,679 sets of data as of March 31, 2019). 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.

Product Stewardship / Product Safety / Quality Assurance

For a Sustainable Future

Quality Management System

Acquisition of ISO 9001 Certification (Sumitomo Chemical)

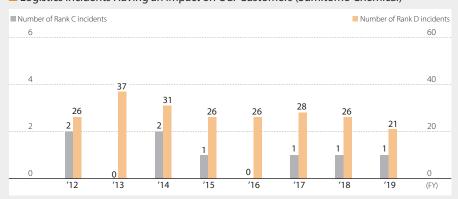
Works	Certificate Number	Certification Date
Ehime Works	JCQA-0019 JET-0847	October 1994 August 2009
Chiba Works	JQA-0829	March 1995
Osaka Works	JQA-0721	December 1994
Oita Works*	JQA-1069	December 1995
Misawa Works	JQA-0752	December 1994
Ohe Works	JET-0829 JCQA-1720	April 1998 January 2010

^{*}The Oita Works (Okayama Plant) and the Oita Works (Gifu Plant) have been pursuing Good Manufacturing Practice (GMP) management.

Logistics Quality Assurance

In fiscal 2019, the Company reported one logistics quality incident of rank C and 21 incidents of rank D. Of these incidents, 13 involved shipping error or false delivery, which can cause significant problems in the quality of customers' products. Going forward, we will continue to promote measures to reduce the number of logistics quality incidents.

■ 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

- There were no occurrences of Rank A or Rank B (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



Social Activities: Supplementary Data

For a Sustainable Future

4 Social Contributions

■ Major Donations in FY2019 (Sumitomo Chemical)

(Million yen)

Item	Amount
To support education in Africa	19.0
To support the development and education of children through ASHINAGA (Matching Gift program)	6.8
To support OISCA's tree planting activities (Matching Gift program)	6.2
Donated money to the Japanese Red Cross Society for the torrential rains of Typhoon Hagibis.	3.0
TABLE FOR TWO (Matching Gift program)	1.0

Note: Donation figures for Matching Gift programs are the amount of money provided by the Company.

Total number of donations: 358

■ Number of Major Donations in FY2019 (Sumitomo Chemical)

Item	Number of cases
Local community activities	167
International exchange and cooperation	27
Sports	22
Academic study and research	21
Culture and art	19
Education and social education	15
Social welfare	14
Environment	10
Support to areas devastated by disasters	10
Others	53

Leave for Volunteer Work and Number of Employees Using Leave for Volunteer Work (Sumitomo Chemical)

	System in place	FY2017	FY2018	FY2019
Vacations for volunteering	Yes	27	24	21

List of Policies

We have gathered together the Sumitomo Chemical Group's policies, guidelines, and other guidance related to sustainability.

For a Sustainable Future

Policies	Web
prporate 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/
aterial Issues for Sustainable Value Creation	
Sumitomo Chemical Group Basic Policy Towards a Circular System for Plastics	https://www.sumitomo-chem.co.jp/english/sustainability/management/materiality/plastic/
overnance	
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
Basic policy for Enhancement of the Internal Control System	https://www.sumitomo-chem.co.jp/english/company/files/docs/InternalControlSystem_20190329_e.p
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-manu
Corporate Policy on Responsible Care (Safety, Health, the Environment and Product Quality)	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/promote/
vironment Corporate Policy on Responsible Care	https://www.supitama.chom.co.ip/apglich/suctainability/governance/sepansiblesare/promete/
(Safety, Health, the Environment and Product Quality)	
Eco-First Commitments	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/ecofirst/
Sumitomo Chemical's Commitment to the Conservation of Biodiversity	https://www.sumitomo-chem.co.jp/english/sustainability/environment/conservation/biodiversity/
ciety (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
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 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	https://www.sumitomo-chem.co.jp/english/sustainability/governance/responsiblecare/promote/
(Safety, Health, the Environment and Product Quality)	

Calculation Standards for Environmental and Social Data Indicators

- 1. Period: April 2019 to March 2020
- 2. Boundary: Refer to Boundary of This Report on page 3 of the Sustainability Data Book 2020.
- 3. Calculation Method:

Environme	Environmental Data Indicator Unit		Calculation Method
Energy	Energy Energy consumption Thousa crude o		$\{(Amount\ of\ electricity\ purchased\ \times\ Per-unit\ heating\ value\ +\ Amount\ of\ heat\ purchased\ \times\ Per-unit\ heating\ value\ +\ Amount\ of\ heat\ purchased\ \times\ Per-unit\ heating\ value\ for\ each\ fuel)\}\ \times\ 0.0258\ The\ per-unit\ heating\ value\ of\ electricity,\ per-unit\ heating\ value\ for\ each\ fuel,\ and\ the\ types\ of\ fuel\ included\ in\ the\ scope\ of\ calculation\ are\ based\ on\ the\ values\ and\ calculation\ methods\ outlined\ in\ the\ Act\ on\ the\ Rational\ Use\ of\ Energy.$ 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\ in\ the\ formulation\ of\ Japanese\ laws.
	Hydrocarbon compounds	Thousand tons	Total amount of hydrocarbon compounds used as raw materials (only raw materials purchased from outside the Sumitomo Chemical Group).
Amount of Exhaustible Resources Used	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.
	No. of electrical devices containing high concentrations of PCBs	Unit	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.).
PCBs/CFCs in	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.).
Use or under Secure Storage	No. of refrigeration units using specified CFCs as a coolant	Units	The number of refrigerator units currently using specified CFCs as a coolant.
	No. of refrigeration units using specified HCFCs as a coolant	Units	The number of refrigerator units currently 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.
	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.
Water Pollutant Emissions	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 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.
Waste Materials	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	Sumitomo Chemical: The total amount of waste disposed of in landfills. Group companies in Japan: The total amount of waste disposed of in landfills.

Calculation Standards for Environmental and Social Data Indicators

Environme	ental Data Indicator	Unit	Calculation Method		
Atmospheric Emissions	Greenhouse gas emissions	Thousand tons of CO2	CO2 emissions from energy use: Amount of electricity purchased \times CO2 emission factors for electricity + Amount of steam purchased \times CO2 emission factors for steam + Σ (Amount of each fuel used \times Per-unit heating value for each fuel \times CO2 emission coefficient for each fuel). The CO2 emission factors for steam, per-unit heating value for each fuel, and CO2 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 CO2 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 2017 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. CO2 emissions from other than energy use and non-CO2 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 CO2 emissions generated by processes not subject to reporting under the Act on Promotion of Global Warming Countermeasures but that emit 3,000 or more tons of CO2 per year. 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 (N2O) 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 (SO2) 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 Amoun 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 (Boundary: Sumitomo Chemical)	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.		
Logistics	CO2 emissions (Boundary: Sumitomo Chemical)	Thousand tons of CO2	Calculated based on the Manual for Calculation and Report of Greenhouse Gas Emissions (Ver. 4.6) from Japan's Ministry of the Environment and Ministry of Economy, Trade and Industry using the energy consumption calculated above in GJ.		
	Category 1: Purchased goods and services	Tons of CO2	\$\Sigma\{\text{(Volume and monetary amount of goods and services purchased and acquired \times \text{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 3.0 March 2020.		
	Category 2: Capital goods	Tons of CO2	2 {(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 3.0 March 2020.		
Scope 3 Greenhouse	Category 3: Fuels and energy- related activities not included in Scope 1 or 2	Tons of CO2	$\Sigma \{(\text{Amount of electricity purchased}) \times (\text{Emissions intensity})\} + \Sigma \{(\text{Amount of heat purchased}) \times (\text{Emissions intensity})\} + \Sigma \{(\text{Amount of each fuel used}) \times (\text{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 3.0 March 2020 and IDEA v2 (for calculating supply chain greenhouse gas emissions).		
Gas Emissions (Sumitomo Chemical and Group	Category 4: Upstream transporta- tion and distribution	Tons of CO2	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)		
companies listed in Japan)	Category 5: Waste generated in operations	Tons of CO2	Σ (Amount of waste by type \times 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 3.0 March 2020.		
	Category 6: Business travel	Tons of CO2	By mode of travel: Σ (Expenses paid for transportation \times 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 3.0 March 2020.		
	Category 7: Employee commuting	Tons of CO2	By mode of commuting: Σ (Expenses paid for transportation \times 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 3.0 March 2020 and IDEA v2 (for calculating supply chain greenhouse gas emissions).		

Calculation Standards for Environmental and Social Data Indicators

Environme	ntal Data Indicator	Unit	Calculation Method
	Category 8: Upstream leased assets	Tons of CO2	Calculations of emissions from leased vehicles: Σ (Amount of gasoline consumed annually per vehicle \times 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 transpor- tation and distribution	Tons of CO2	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 consumer as final products.
	Category 10: Processing of sold products	Tons of CO2	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.
Grope 3 Greenhouse Gas Emissions Sumitomo Chemical and Group companies isted in Japan)	Category 11: Use of sold products	Tons of CO2	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 \times Percentage of nitrogen in fertilizers by type \times N2O efficiency indicator by type \times 298 (GWP)) Σ (HFC volume in fixed-dose mist inhalers \times 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 CO2	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 3.0 March 2020.
	Category 13: Downstream leased assets	Tons of CO2	Exempted: There are no relevant leased assets.
	Category 14: Franchises	Tons of CO2	Exempted: There are no relevant operations.
	Category 15: Investments	Tons of CO2	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.
6 11 15			
Social and Eco	onomic Data Indicator	Unit	Calculation Method
Occupational Safety and Health	Frequency rate of lost-workday injuries	_	(Number of lost-workday injuries and casualties \div Cumulative total of hours worked) \times 1,000,000
Environmental	Accounting Indicators	Unit	Calculation Method
Environmental Protection Costs		Billion yen	Costs include depreciation.
	Reduced costs through energy saving	Billion yen	Reduced costs of energy through energy-saving activities.
Economic Benefits	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

For a Sustainable Future

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, 2019 to March 31, 2020 included in its Sustainability Data Book 2020 (the "Data Book") for the fiscal year ended March 31, 2020.

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 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.

to Aga Sutanbilly Congany Ital. KPMG AZSA Sustainability Co., Ltd.

Osaka, Japan October 21, 2020

GRI Standards Reference Table

For a Sustainable Future

The Sustainability Data Book 2020 has been prepared in accordance with "Core option" of the Sustainability Reporting Standard of the Global Reporting Initiative (GRI).

Universal Standards

			Corresponding part					
NO.	Disclosure	Reporting requirements	The Sustainabi Data Book 202	,	Website and related reports			
GRI102: General Disclosures 2016								
Organizational profile								
102-1	Name of the organization	a. Name of the organization.		Tr.	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 Creating Value through Business (Annual Report			
102-3	Location of headquarters	a. Location of the organization's headquarters.			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 (Annua Report P95-101) 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;			Corporate Profile			
102-8	Information on employees and other workers	v. quantity of products or services provided. 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.	Social Activities: Supplementary Data (Human Resources)	P196-199				
102-9	Supply chain	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.			Creating Value through Business (Annual Report P38-61) Production Flow Charts (Investors' Handbook P82-89)			
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 Governance (Risk Management)	P11-52 P66-68	Value Creation Platform (Annual Report P62-94)			

GRI Standards Reference Table

			Corresponding part			
NO.	Disclosure	, , , , , , , , , , , , , , , , , , ,	The Sustainabil Data Book 202	•	Website and related reports	
102-12 External initiatives	External initiatives		For a Sustainable Future (Participation in Initiatives) Eco-First Commitments Society (Respect for Human Rights)	P44-48 P83-84 P148		
102-13	Membership of associations	a. A list of the main memberships of industry or other associations, and national or international advocacy organizations.	For a Sustainable Future (Participation in Initiatives)	P44-48		
Strategy	<i>'</i>					
102-14	Statement from senior decision-maker	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.	For a Sustainable Future (President's Message)	<u>P12-17</u>		
102-15	Key impacts, risks, and opportunities	a. A description of key impacts, risks, and opportunities.	For a Sustainable Future (President's Message) Governance (Risk Management)	P12-17 P66-68	Our Sustainability Efforts (Annual Repo P26-37)	
Ethics ar	nd integrity					
102-16	Values, principles, standards, and norms of behavior	a. A description of the organization's values, principles, standards, and norms of behavior.	For a Sustainable Future (Corporate Philosophy, What Sumitomo Chemical Group Strives to Be)	<u>P18-21</u>		
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,	Governance (Compliance)	P69-76		
C 01 10 HD 0		and organizational integrity.				
Governa 102-18	Governance structure	a. Governance structure of the organization, including committees	Governance (Corporate	P54-63		
102-10	dovernance structure	b. Committees responsible for decision-making on economic, environmental, and social topics.	Governance)	134-03		
102-19	Delegating authority	Process for delegating authority for economic, environmental, and social topics from the highest governance body to senior executives and other employees.	For a Sustainable Future (Sustainability Promotion System) Governance (Corporate	P34 P54-63		
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.	Governance) For a Sustainable Future (Sustainability Promotion System)	<u>P34</u>		
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.	For a Sustainable Future (Sustainability Promotion System)	<u>P34</u>		
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.	Governance (Corporate Governance)	P54-63		
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.	Governance (Corporate Governance)	<u>P54-63</u>		

Society

GRI Standards Reference Table

		Reporting requirements	Corresponding part			
102-24 Nominating and	Disclosure		The Sustainab Data Book 20	•	Website and related reports	
	selecting the highest	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.	Governance (Corporate Governance)	P54-63		
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.	Governance (Corporate Governance)	P54-63		
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.	For a Sustainable Future (Sustainability Promotion System) Governance (Corporate Governance)	<u>P34</u> <u>P54-63</u>		
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.	For a Sustainable Future (Sustainability Promotion System) Governance (Corporate Governance)	<u>P34</u> <u>P54-63</u>		
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.	For a Sustainable Future (Sustainability Promotion System) Governance (Corporate Governance)	P34 P54-63		
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.	For a Sustainable Future (Sustainability Promotion System) Governance (Corporate Governance)	P34 P54-63		
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.	Governance (Risk Management)	<u>P66-68</u>		
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.	Governance (Risk Management)	<u>P66-68</u>		
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.	For a Sustainable Future (Sustainability Promotion System)	<u>P34</u>		
102-33	Communicating critical concerns	a. Process for communicating critical concerns to the highest governance body.	Governance (Compliance) Governance (Risk Management)	<u>P69-76</u> <u>P66-68</u>		
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.	Governance: Supplementary Data (Compliance) Governance (Compliance)	P95 P69-76		

GRI Standards Reference Table

NO.	Disclosure 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;	Corresponding part		
			The Sustainability Data Book 2020		Website and related reports
			Governance (Corporate Governance)	<u>P61</u>	
		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.			
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.	Governance (Corporate Governance)	<u>P61-63</u>	
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.	Governance (Corporate Governance)	<u>P61-63</u>	
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.	_	_	
Stakeho	older engagement				
102-40	List of stakeholder groups	a. A list of stakeholder groups engaged by the organization.	For a Sustainable Future (Communication with Stakeholders) Digest of Expert Opinion	P49-50 P31-32	
102-41	Collective bargaining agreements	a. Percentage of total employees covered by collective bargaining agreements.	and Advice Society Human Resources Management (Communication with Employees)	<u>P156</u>	
102-42	Identifying and selecting stakeholders	a. The basis for identifying and selecting stakeholders with whom to engage.	For a Sustainable Future (Communication with Stakeholders)	P49-50	
102-43	Approach to stakeholder engagement	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.	For a Sustainable Future (Communication with Stakeholders)	<u>P49-50</u>	
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	Governance: Supplementary Data (Compliance) Digest of Expert Opinion	P95 P31-32	
		concerns, including through its reporting; ii. the stakeholder groups that raised each of the key topics and concerns.	and Advice	<u>F31-32</u>	
Reportir	ng 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.	Report Profile	<u>P3</u>	
102.46	Defining to	financial statements or equivalent documents is not covered by the report.	Editorial Police	Do	
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	<u>P2</u>	
102-47	List of material topics	a. A list of the material topics identified in the process for defining report content.	For a Sustainable Future (Material Issues to Be Addressed as Management Priorities)	P22-23	

			Corresponding part			
NO.	Disclosure	Reporting requirements	The Sustainability Data Book 2020		Website and related reports	
102-48	Restatements of information	a. The effect of any restatements of information given in previous reports, and the reasons for such restatements.	Society Human Resources Management (chart: Results of Systems for Work-Life Balance) Social Activities: Supplementary Data (chart: Number and Percentage of People who Left the Company) Environmental Activities:	P169 P198 P125		
			Supplementary Data (chart: Economic Effects)			
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	<u>P3</u>		
102-51	Date of most recent report	a. If applicable, the date of the most recent previous report.	Report Profile	<u>P3</u>		
102-52	Reporting cycle	a. Reporting cycle.	Report Profile	<u>P3</u>		
102-53	Contact point for questions regarding the report	a. The contact point for questions regarding the report or its contents.	Report Profile	<u>P3</u>		
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:	Report Profile	<u>P3</u>		
	GNI Staridards	i. 'This report has been prepared in accordance with the GRI Standards: Core option';	CDI Circulate De Correction	#C		
		ii. 'This report has been prepared in accordance with the GRI Standards: Comprehensive option'.	GRI Standards Reference Table	"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.	GRI Standards Reference Table	P212-232		
		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.				
102-56	External assurance	A description of the organization's policy and current practice with regard to seeking external assurance for the report.	Editorial Policy	<u>P2</u>		
		b. If the report has been externally assured:	Independent Assurance	<u>P211</u>		
		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;	Report			
		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.				
GRI103:	Management Approa	ch 2016	· 			
103-1	Explanation of the material topic and its	a. An explanation of why the topic is material. b. The Boundary for the material topic, which includes a	For a Sustainable Future (Material Issues to Be	<u>P22-23</u>		
	Boundary	description of: i. where the impacts occur;	Addressed as Management Priorities)			
		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.				

			Corresponding part			
NO.	Disclosure	Reporting requirements	The Sustainability Data Book 2020	Website and related reports		
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	For a Sustainable Future (Key Performance Indicator (KPI)) For a Sustainable Future (Sustainability Promotion. System) P24-32 P24-32 P24-32 P24-32 P24-32 P24-32 P24-32 P24-32 P24-32 P34 P34			
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.	For a Sustainable Future (Sustainability Promotion System)			

Topi	c-spec	ific Standard	O: Items related material aspects for Sumitomo Chemic	al Group in GRI Standards ID 2	00 – 400 range
NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	•
ECONC					
GRI201: 201-1	Economic	Performance 2016 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.	_	_
201-2	0	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.	Environment (Addressing Climate Change > Summary of the Scenario Analysis)	<u>P103</u>
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 poes 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. 	_	
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 Pre	esence 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'.	_	_

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	
202-2		Proportion of senior management hired from the local	a. Percentage of senior management at significant locations of operation that are hired from the local community. b. The definition used for 'senior management'.	_	
		community	c. The organization's geographical definition of 'local'. d. The definition used for 'significant locations of operation'.		
GRI203:	Indirect Ec	onomic Impacts 2016		I	
203-1		Infrastructure investments	a. Extent of development of significant infrastructure investments and services supported.	Society (Communities)	P189-195
		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	Social Activities: Supplementary Data (Social Contributions)	<u>P206</u>
			engagements.		
203-2		Significant indirect economic impacts	Examples of significant identified indirect economic impacts of the organization, including positive and negative impacts.	Society (Communities) Social Activities:	<u>P189-195</u> <u>P206</u>
			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.	Supplementary Data (Social Contributions)	
GRI204:	Procureme	ent 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'.		
	Anti-corru	ption 2016		I	
205-1	0	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.	Governance: Supplementary Data (chart: Number of Compliance Violations)	<u>P95</u>
				Governance (Anti-corruption)	<u>P77-79</u>
205-2	0	Communication and training about anti-corruption policies and procedures	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.	Governance: Supplementary Data (chart: Number of Compliance	<u>P95</u>
			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.	Violations) Governance (Anti-corruption) Governance (Compliance >	<u>P77-79</u> P74
			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.	Compliance Training)	
			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.		
205-3	0	Confirmed incidents of corruption and	a. Total number and nature of confirmed incidents of corruption. b. Total number of confirmed incidents in which employees were dismissed or	Governance (Compliance) Governance:	<u>P69-76</u> <u>P95</u>
		actions taken	disciplined for corruption. c. Total number of confirmed incidents when contracts with business partners	Supplementary Data (chart: Number of Compliance	
			were terminated or not renewed due to violations related to corruption. d. Public legal cases regarding corruption brought against the organization or its	<u>Violations)</u>	
			employees during the reporting period and the outcomes of such cases.		
GRI206: 206-1		betitive Behavior 2016 Legal actions for	a. Number of legal actions pending or completed during the reporting period	Governance (Compliance)	P69-76
200-1	0	anti-competitive behavior, anti-trust,	regarding anti-competitive behavior and violations of anti-trust and monopoly legislation in which the organization has been identified as a participant.	Governance (Compliance)	<u>P09-70</u>
		and monopoly practices	b. Main outcomes of completed legal actions, including any decisions or judgments.		
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	Governance: Supplementary Data (Tax	<u>P95</u>
			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	Transparency)	
			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.		

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020	
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.		
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.	_	_
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.		

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	
ENVIR	ONMENT				
	: Materials 2				
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;	Environmental Protection (Resource Saving and Waste Reduction) Environmental Activities:	P115 P121
			ii. renewable materials used.	Supplementary Data (Environmental Protection > Environmental Performance)	
301-2		Recycled input materials used	a. Percentage of recycled input materials used to manufacture the organization's primary products and services.	Environmental Activities: Supplementary Data (Environmental Protection > Waste Disposal Flow Chart and Results)	<u>P135</u>
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 20	16	b. How the data for this disclosure have been conceted.		
302-1	O O	Energy consumption within the	a. Total fuel consumption within the organization from non-renewable sources, in joules or multiples, and including fuel types used.	Addressing Climate Change (Goals and Results)	<u>P100</u>
		organization	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:	Calculation Standards for Environmental and Social Data Indicators	<u>P208-210</u>
			i. electricity consumption ii. heating consumption		Para and a second
			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.		
302-2		Energy consumption	g. Source of the conversion factors used. a. Energy consumption outside of the organization, in joules or multiples.	Addressing Climate Change	P101
J02 2		outside of the	b. Standards, methodologies, assumptions, and/or calculation tools used.	(Goals and Results)	1101
		organization	c. Source of the conversion factors used.	Calculation Standards for Environmental and Social Data Indicators	<u>P208-210</u>
302-3	0	Energy intensity	a. Energy intensity ratio for the organization.	Environmental Activities: Supplementary Data	<u>P120</u>
			b. Organization-specific metric (the denominator) chosen to calculate the ratio. c. Types of energy included in the intensity ratio; whether fuel, electricity, heating,	(Addressing Climate Change	
			cooling, steam, or all. d. Whether the ratio uses energy consumption within the organization, outside	> Energy Consumption and Unit Energy Consumption)	
302-4	0	Reduction of energy consumption	of it, or both. a. Amount of reductions in energy consumption achieved as a direct result of conservation and efficiency initiatives, in joules or multiples.	Environmental Activities: Supplementary Data	<u>P120</u>
			b. Types of energy included in the reductions; whether fuel, electricity, heating, cooling, steam, or all.	(Addressing Climate Change > Energy Consumption and Unit Energy Consumption)	
			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.	Environmental Activities: Supplementary Data (Environmental Protection > Environmental Performance)	<u>P121</u>
302-5	0	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.	For a Sustainable Future (Key Performance Indicator (KPI))	<u>P24-27</u>
		Products and services	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.	For a Sustainable Future (Promoting Sustainability > Sumika Sustainable Solutions)	<u>P36-40</u>
				Calculation Standards for Environmental and Social Data Indicators	<u>P208-210</u>

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020	
GRI303:	Water and	l 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	Environmental Protection (Protecting the Aquatic Environment)	<u>P113-114</u>
			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.		
303-2		Management of water discharge-related	A description of any minimum standards set for the quality of effluent discharge, and how these minimum standards were determined, including:	Environmental Activity Goals and Results	<u>P98</u>
		impacts	 i. how standards for facilities operating in locations with no local discharge requirements were determined; 	Environmental Protection (Management System)	<u>P110</u>
			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.		
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:	Environmental Activities: Supplementary Data	<u>P121</u>
			i. Surface water;	(Environmental Protection > Environmental Performance)	
			ii. Groundwater;	Calculation Standards for	<u>P208</u>
			iii. Seawater;	Environmental and Social	<u>F200</u>
			iv. Produced water;	<u>Data Indicators</u>	
			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.		7
			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.		

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	•
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;	Environmental Activities: Supplementary Data (Environmental Protection > Environmental Performance)	<u>P122</u>
			iii. Seawater;	Environmental Protection (Protecting the Aquatic	P113-114
			iv. Third-party water, and the volume of this total sent for use to other organizations, if applicable.	Environment) Calculation Standards for	<u>P208</u>
			 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); 	Environmental and Social Data Indicators	
			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.		
303-5		Water consumption	a. Total water consumption from all areas in megaliters.	Environmental Activities: Supplementary Data	<u>P121-122</u>
			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.	(Environmental Protection > Environmental Performance)	
			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	Calculation Standards for Environmental and Social Data Indicators	<u>P208</u>
			the use of any sector-specific factors.		
GRI304:	Biodiversi	ty 2016			,
304-1		Operational sites owned, leased, managed in, or adjacent to, protected	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:	_	
		areas and areas of	i. Geographic location; ii. Subsurface and underground land that may be owned, leased, or		
		high biodiversity value outside protected areas	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 km² (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).		
304-2		Significant impacts of activities, products,	a. Nature of significant direct and indirect impacts on biodiversity with reference to one or more of the following:	_	—
		and services on biodiversity	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;		

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	
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.	_	h
			 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.		
204.4		 IUCN Red List	d. Standards, methodologies, and assumptions used. a. Total number of IUCN Red List species and national conservation list species	Environmental Protection	D117
304-4		species and national conservation list	with habitats in areas affected by the operations of the organization, by level of extinction risk:	(Biodiversity Preservation Initiatives > Misawa Works	<u>P117</u>
		species with habitats in areas affected by	i. Critically endangered	Initiatives)	
		operations	ii. Endangered		
			iii. Vulnerable		
			iv. Near threatened		
CDIDAT		2016	v. Least concern		
	: Emissions		. Constitution 12 CHC anticipation of CO anticipation	Address Classes Character	D100
305-1	0	Direct (Scope 1) GHG missions	 a. Gross direct (Scope 1) GHG emissions in metric tons of CO₂ equivalent. b. Gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. 	Addressing Climate Change (Goals and Results) Environmental Activities:	P100 P119
			c. Biogenic CO2 emissions in metric tons of CO2 equivalent. d. Base year for the calculation, if applicable, including:	Supplementary Data (Addressing Climate	
			i. the rationale for choosing it;	<u>Change)</u> Environmental Activities:	P123
			ii. emissions in the base year;	Supplementary Data	<u>F123</u>
			iii. the context for any significant changes in emissions that triggered recalculations of base year emissions.	(Environmental Protection > Environmental Performance)	
			e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source.	Calculation Standards for Environmental and Social Data Indicators	<u>P209</u>
			f. Consolidation approach for emissions; whether equity share, financial control, or operational control.		
305-2		Energy indirect	g. Standards, methodologies, assumptions, and/or calculation tools used. a. Gross location-based energy indirect (Scope 2) GHG emissions in metric tons	Addressing Climate Change	<u>P100</u>
J0J Z		(Scope 2) GHG emissions	of CO2 equivalent. b. If applicable, gross market-based energy indirect (Scope 2) GHG emissions in	(Goals and Results) Environmental Activities:	P119
			metric tons of CO2 equivalent. c. If available, the gases included in the calculation; whether CO2, CH4, N2O, HFCs,	Supplementary Data (Addressing Climate	
			PFCs, SF6, NF3, or all.	<u>Change)</u> Environmental Activities:	P123
			d. Base year for the calculation, if applicable, including:	Supplementary Data	<u>F123</u>
			i. the rationale for choosing it; ii. emissions in the base year;	(Environmental Protection > Environmental Performance)	
			iii. the context for any significant changes in emissions that triggered recalculations of base year emissions.	Calculation Standards for Environmental and Social	<u>P209</u>
			e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source.	<u>Data Indicators</u>	
			f. Consolidation approach for emissions; whether equity share, financial control, or operational control.		
205.2		Oth as is discort	g. Standards, methodologies, assumptions, and/or calculation tools used.	Addressia a Climata Cha	D100 101
305-3	0	Other indirect (Scope 3) GHG emissions	 a. Gross other indirect (Scope 3) GHG emissions in metric tons of CO₂ equivalent. b. If available, the gases included in the calculation; whether CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃, or all. 	Addressing Climate Change (Goals and Results) Calculation Standards for	P100-101 P209
			c. Biogenic CO ₂ emissions in metric tons of CO ₂ equivalent.	Environmental and Social	.200
			d. Other indirect (Scope 3) GHG emissions categories and activities included in the calculation.	<u>Data Indicators</u>	
			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.		

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	
305-4	0	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 CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.	Environmental Activities: Supplementary Data (Addressing Climate Change > Results)	<u>P120</u>
305-5	0	Reduction of GHG emissions	 a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO2 equivalent. b. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, 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 	Addressing Climate Change (Goals and Results) Environmental Activities: Supplementary Data (Environmental Protection > Environmental Performance)	P100-101 P123
			indirect (Scope 2), and/or other indirect (Scope 3). e. Standards, methodologies, assumptions, and/or calculation tools used.	Calculation Standards for Environmental and Social Data Indicators	<u>P209</u>
305-6	0	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 Activities: Supplementary Data (Environmental Protection > Environmental Performance, Prevention of Ozone Layer Depletion)	P121 P129
				Calculation Standards for Environmental and Social Data Indicators	P208
305-7	0	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)	Environmental Activities: Supplementary Data (Environmental Protection > Environmental Performance, Addressing PRTR and VOCs)	P123 P128-129
			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.	Calculation Standards for Environmental and Social Data Indicators	<u>P210</u>
GRI306:	Waste 202	20			
306-1		Waste generation and significant wasterelated 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.	Environmental Protection (Resource Saving and Waste Reduction)	<u>P115</u>
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 Protection (Resource Saving and Waste Reduction)	P115
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 Activities: Supplementary Data (Environmental Protection > Industrial Waste Reduction > Item in correction with the Disposal of Waste)	<u>P133-135</u>

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	
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.	Environmental Activities: Supplementary Data (Environmental Protection > Industrial Waste Reduction > Item in correction with the Disposal of Waste)	P133-135
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 (with 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.	Environmental Activities: Supplementary Data (Environmental Protection > Industrial Waste Reduction > Item in correction with the Disposal of Waste)	P133-135
GRI307: 307-1	Environme	ental Compliance 2016 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 Governance: Supplementary Data (chart: Number of Compliance Violations)	<u>P98</u>
GRI308.	Supplier F	nvironmental Assessm			i .
308-1		New suppliers that were screened using environmental criteria	a. Percentage of new suppliers that were screened using environmental criteria.	Procurement (Goals and Results > Group-wide Initiatives) Procurement (Examples of Initiatives > Promoting Sustainable Procurement throughout the Supply Chain)	<u>P151</u>
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.	Procurement (Goals and Results > Group-wide Initiatives) Procurement (Examples of Initiatives > Promoting Sustainable Procurement throughout the Supply Chain)	P151 P153

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainabil Data Book 202	,
SOCIAL				-	
GRI401:	Employme	ent 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.	Social Activities: Supplementary. Data (Human Resources > Number of New Graduate and Mid-career Hires, Number and Percentage of People who Left the Company)	P198
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'.	Human Resources Management (Work-Life Balance)	<u>P168</u>
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.	Human Resources Management (Work-Life Balance)	P169
GRI402:	Labor/Ma	nagement Relations 20	016		
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.	_	
GRI403:	Occupatio	onal Health and Safety		I.	,
403-1	0	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.	Social Activities: Supplementary Data (Occupational Safety and Health / Industrial Safety and Disaster Prevention)	<u>P200</u>
403-2	0	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) Occupational Safety and Health / Industrial Safety and Disaster Prevention. (Examples of Initiatives)	P174 P176-180
403-3	0	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)	P176-180 P85

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020	
403-4	0	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) Occupational Safety and Health / Industrial Safety and Disaster Prevention (Examples of Initiatives)	<u>P174</u> <u>P176-180</u>
403-5	0	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.	Governance (Responsible Care) Occupational Safety and Health / Industrial Safety and Disaster Prevention (Examples of Initiatives. > Main Safety Education Programs)	P80-82 P178-179
403-6	0	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.	Human Resources Management (Healthcare)	<u>P171-173</u>
403-7	0	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) Occupational Safety and Health / Industrial Safety and Disaster Prevention (Examples of Initiatives > Logistics Initiatives)	P176 P180
403-8	0	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) Responsible Care Audits (Management System)	P174 P85-86
403-9	O	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 (Goals and Results) Social Activities: Supplementary Data (Occupational Safety and Health / Industrial Safety and Disaster Prevention > Safety Achievements, Industrial Safety and Disaster Prevention Results)	P175

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020	
403-10	0	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.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Basic Stance, Goals and Results)	<u>P174-175</u>
			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;	Social Activities: Supplementary Data (Occupational Safety and Health / Industrial Safety and Disaster Prevention > Safety Achievements)	<u>P200-203</u>
			 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. 		and the state of t
GRI404:	Training a	nd 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.	Human Resources Management (Human Resources Development > Targets and Results / Examples of Initiatives > Training)	<u>P160</u>
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.	Human Resources Management (Human Resources Development > Targets and Results / Examples of Initiatives > Organization of Training Programs)	<u>P158</u>
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 Management (Human Resources System Initiatives)	<u>P155-156</u>
GRI405:	Diversity a	nd Equal Opportunity	2016		
405-1	0	Diversity of governance bodies and employees	 a. Percentage of individuals within the organization's governance bodies in each of the following diversity categories: Gender; Age group: under 30 years old, 30–50 years old, over 50 years old; Other indicators of diversity where relevant (such as minority or vulnerable groups). b. Percentage of employees per employee category in each of the following 	Governance: Supplementary Data (Corporate Governance) > Directors & Senior Management) Social Activities: Supplementary Data	<u>P92-94</u>
			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).	(Human Resources > Basic Data)	
405-2	0	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'.	Social Activities: Supplementary Data (Human Resources > Basic Data)	<u>P196</u>
GRI406:	Non-discri	mination 2016			
406-1	0	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.	Respect for Human Rights (Examples of Initiatives > Consultation Office)	<u>P146</u>

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020			
GRI407: Freedom of Association and Collective Bargaining 2016							
GRI407 : 407-1				Respect for Human Rights P147-1			
407-1	0	Operations and suppliers in which the right to freedom	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:	(Examples of Initiatives)			
		of association and collective bargaining	i. type of operation (such as manufacturing plant) and supplier;	Procurement (Goals and Results > Group-wide Initiatives)	<u>P151</u>		
		may be at risk	ii. countries or geographic areas with operations and suppliers considered at risk.b. Measures taken by the organization in the reporting period intended to	<u>initiatives)</u>	·		
CDI 400		2016	support rights to exercise freedom of association and collective bargaining.				
	Child Labo		- On anting and a small are agained to be a significant side for its side at a f	Decree of facility and Dishter	D147 14		
108-1	0	Operations and suppliers at significant	a. Operations and suppliers considered to have significant risk for incidents of:	Respect for Human Rights (Examples of Initiatives)	<u>P147-14</u>		
		risk for incidents of	i. child labor;	Procurement (Goals and	P151		
		child labor	ii. young workers exposed to hazardous work.	Results > Group-wide			
			b. Operations and suppliers considered to have significant risk for incidents of child labor either in terms of:	<u>Initiatives)</u>			
			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.				
GRI409:	Forced or	Compulsory Labor 201		_	·		
409-1	0	Operations and suppliers at significant	a. Operations and suppliers considered to have significant risk for incidents of forced or compulsory labor either in terms of:	Respect for Human Rights (Examples of Initiatives)	<u>P147-14</u>		
		risk for incidents of	i. type of operation (such as manufacturing plant) and supplier;	Procurement (Goals and	<u>P151</u>		
		forced or compulsory labor	ii. countries or geographic areas with operations and suppliers considered at risk.	Results > Group-wide			
			b. Measures taken by the organization in the reporting period intended to contribute to the elimination of all forms of forced or compulsory labor.	<u>Initiatives)</u>			
GRI410:	Security P	ractices 2016			:		
410-1	0	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.	Respect for Human Rights (Examples of Initiatives > Raising Employees'	<u>P146</u>		
			b. Whether training requirements also apply to third-party organizations providing security personnel.	Awareness of Human Rights)			
GRI411:	: Rights of I	ndigenous Peoples 20	, , , , , , , , , , , , , , , , , , , ,		1		
411-1		Incidents of violations involving rights of indigenous peoples	Total number of identified incidents of violations involving the rights of indigenous peoples during the reporting period.	Not applicable			
			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.				
GRI412:	: Human Ric	ghts Assessment 2016			:		
412-1	0	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.	Respect for Human Rights (Examples of Initiatives > Human Rights Due Diligence and Relief Efforts)	<u>P147</u>		
412-2	0	Employee training on human rights policies or procedures	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.	Respect for Human Rights (Examples of Initiatives > Raising Employees'	<u>P146</u>		
			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.	Awareness of Human Rights)			
412-3		Significant investment agreements and contracts that include	Total number and percentage of significant investment agreements and contracts that include human rights clauses or that underwent human rights screening.	_	_		
		human rights clauses or that underwent human rights screening	b. The definition used for 'significant investment agreements'.				

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020			
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;	Communities (Assuring Safety, the Environment, and Health)	<u>P191</u>		
			vii. works councils, occupational health and safety committees and other worker representation bodies to deal with impacts; viii. formal local community grievance processes.				
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.	Occupational Safety and Health / Industrial Safety and Disaster Prevention (Examples of Initiatives > Preparation for Large-Scale Natural Disasters)	<u>P178</u>		
GRI414:	Supplier S	ocial Assessment 2016					
414-1		New suppliers that were screened using social criteria	a. Percentage of new suppliers that were screened using social criteria.	Procurement (Goals and Results > Group-wide Initiatives)	<u>P151</u>		
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.	Procurement (Goals and Results > Group-wide Initiatives)	<u>P151</u>		
GRI415:	Public Pol	icy 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 201	6				
416-1	0	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.	Product Stewardship / Product Safety / Quality Assurance (Examples of Initiatives)	<u>P183</u>		
416-2	0	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.	Product Stewardship / Product Safety / Quality Assurance (Examples of Initiatives > Providing Products and Services of Stable Quality, The Information Sharing System and Ensuring thorough Compliance)	P184 P185		
GRI417:	Marketing	and Labeling 2016					
417-1	0	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	Product Stewardship / Product Safety / Quality. Assurance (Examples of Initiatives > Providing Toxicological Information)	<u>P186</u>		

NO.	Related material aspects	Disclosure	Reporting requirements	The Sustainability Data Book 2020	
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. a. Total number of incidents of non-compliance with regulations and/or voluntary.	Not applicable	
417-3		incleents or non-compliance concerning marketing communications	a. Iotal 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.	_	_
	Socioecor	omic Compliance 201		1	
419-1	0	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.	Governance: P9: Supplementary Data (Compliance)	<u>15</u>