Materiality

Identification of Materiality

The MGC Group identified priority issues (materiality) to be addressed by management in April 2020 with the aim of conducting sustainability management. In the Medium-Term Management Plan announced in April 2021, we stated our goal of "balancing social and economic value." We have set KPIs for fiscal 2030 materiality targets as well as fiscal 2023

targets for achieving those goals, and will apply the PDCA cycle to make improvements throughout the course of this management process.

Furthermore, materiality is revised around every three years in conjunction with the Medium-Term Management Plan.

STEP 1	Identification of issues	Compiled list of over 600 terms related to societal issues/changes from various sources, including requirements in GRI and SASB standards, ISO 26000 and SDGs and trends among other companies.
STEP 2	Winnowing	Classified the terms by keyword related to societal issues and societal change, and then winnowed them down to 39 materiality factors.
STEP 3	Prioritization	Assessed the priority of the materiality factors from the standpoint of both stakeholders and the MGC Group. The Sustainability Promotion Committee drafted a materiality prioritization hierarchy and submitted it to the Sustainability Promotion Council.
STEP 4	Management deliberation/approval	The materiality submitted by the Sustainability Promotion Committee was deliberated and determined by the Sustainability Promotion Council.
STEP 5	Revision of identified materiality	Materiality is subject to change in response to changes in societal imperatives and stakeholder needs and preferences. Materiality will accordingly be updated as needed in response to changes in society and/or the MGC Group's business activities.

Promotion of Sustainability Management

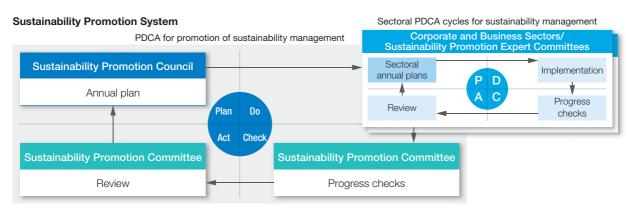
The MGC Group pursues sustainable growth balancing the social and economic value of the Group as "sustainability management," based on its Mission of "creating value to share with society."

The Company has established the Sustainability Promotion Council, chaired by the President and primarily made up of all directors, including outside directors, with Audit & Supervisory Board members also attending. As an advisory body to the Sustainability Promotion Council, the Sustainability Promotion Committee is convened by the General Manager of the CSR & IR Division and attended by general managers of the head office's corporate sectors. Through these organizations, the Company has established a system for promoting ongoing advancement by applying a companywide PDCA cycle ranging from the identification of materiality to the establishment of KPIs, confirmation of progress and reviews.

The Sustainability Promotion Council deliberates and determines policies and measures that form the basis for sustainability management, such as identification and management of materiality, and receives reports on the

implementation status thereof from the Sustainability Promotion Committee. The Sustainability Promotion Committee confirms the status of implementation of measures in each division, and consults with the Sustainability Promotion Council on the necessary measures through periodic reviews. It also establishes various expert committees as needed to consider specialized and important matters. Sustainability Promotion Department within the CSR & IR Division has been established to serve as the secretariat for the council and the committee. Sustainability Promotion Department is responsible for administrative tasks such as overseeing non-financial information within the Company, considering policies and strategies on sustainability management, and handling engagement within and outside the Company.

We aim to obtain the trust and congruity of a variety of stakeholders and achieve ever greater corporate value by contributing to the resolution of issues for the realization of a sustainable society through our business more than ever before.



Materiality Progress at a Glance

Long-Term Targets for Fiscal 2030 Materiality **Opportunities** CSV Creating Shared Value 8 [Specialty Chemicals Business] Contribution through Multiple BMUs boasting high profitability and business operations • Increasing difficulty of development with Strong in-house development technology growth, high ROIC, and ability to generate Contribute to intensifying competition; lengthening lead capabilities stable cash flow development of ICT/ Customer credibility backed by multiple mobility society [Basic Chemicals Business] · Shift in share of low-cost alternative industry standards Solve energy and climate Strengthening business infrastructure materials · Portfolio of distinctive, differentiated change problems through ongoing business portfolio reform, Existing product obsolescence products · Solve medical and food and development/commercialization of problems products conducive to decarbonization Foundation for ⊜ • **Shared-Value Creation** · Strengthened foundation for creating Friendly, fulfilling and vibrant workplace Cultivating a corporate . Declining labor productivity and outflow of enabling people to utilize strengths to innovation culture of job personnel · Improved employee engagement in their produce results at work and maintain · Declining quality of stakeholder engagement satisfaction work work-life balance Fostering active culture where diverse ideas • Uniform thinking and loss of new business · Nurturing culture of collaboration among Promotion of diversity are created due to employees with diverse opportunities due to imbalance in personnel diverse values that is conducive to new values and individuality working and being and inclusion attributes and skills ideas and technological innovation stimulated Company that earns society's trust and · Loss of credibility among stakeholders Stakeholder · Forming fair market valuation empathy by contributing as a member of and damage to corporate value due to society and fulfilling responsibilities to variety · Improved management transparency engagement inappropriate responses of stakeholders Promote groupwide CSR procurement · Negative impacts on business activity due • Improved sustainability of society and long-Promotion of socially activities, and implement procurement of raw materials derived from biomass, recycling to illegal actions and compliance violations responsible sourcing term competitiveness by suppliers and CO₂ to contribute to sustainable society Identify cultural and technical factors of • Risk of disasters or other problems due to occupational accidents/process safety and Occupational safety and · Nurturing culture of safety insufficient education and training disaster prevention, create preventative health/Process safety · Accumulating expertise in preventive · Loss of societal trust due to accidents or measures, and realize safe production sites maintenance and disaster prevention where occupational accidents and process scandals safety accidents do not occur Ultra-stable operation of production Optimization of production conditions equipment, improvement of outputs through Highly energy- and • Cost of responding to regulations and through deployment of Al/loT; improving use of high-efficiency equipment, pursuit resource-efficient societal demands productivity by predicting and preventing of high-efficiency utilities, minimization of production · Cost of deploying high-efficiency equipment equipment trouble through utilization of DX problems technology • Facilitating continuous improvement and Loss of societal trust due to inaccurate ensuring customer satisfaction through Creation of groupwide risk management Chemical/product company- and groupwide quality assurance data handling and shipping of inappropriate system for chemicals and products, and quality and safety activities (Q-MGC) quality assurance system meeting variety of Strengthened chemical substance · Sharing and centralization of information to assurance high customer requirements regulations in each country enhance customer satisfaction and societal Clarify division of roles of R (research) and Discontinuous change in social and • Strengthened technology platform and Promotion of innovative industrial structures D (development) to promote positive spiral creation of innovation built on collaboration R&D · Securing and developing personnel of research and accelerate R&D throughout among Group's own technologies competent in cutting-edge technology fields **Harmonization of Shared-Value Creation** with Environmental Protection Proactive response to . Increased cost of responding to stronger Participation in Fukushima natural gas power environmental problems environmental regulations Minimization of air and water load, and plant and geothermal project · Air quality control · Decline in competitive advantage due to delays realization of a clean air environment. Commercial development of methanol and preservation of water and sustainability of water · Water and biodiversity in technological response to resource and ammonia as hydrogen carriers and CO2-free energy conservation needs resources through introducing new technologies conservation Reputational risks regarding environmental and strengthening management Reduction of industria Participation in CCUS proof-of-concept testing waste **Value-Creative Discipline** Strengthen systems Steady implementation of improvements

· Establish stable management foundation by

responding appropriately to change

Gain stakeholder trust

improving decision-making transparency and

in environment, and creation of systems to

address variety of social changes, enabling

social needs

higher level of response to and sharing of strong

• Slumping business activity, loss of societal

compliance violations

trust and damage to corporate value due to

Corporate governance

Compliance

Internal controls

· Risk management

Results of Key Initiatives in Fiscal 2022	KPIs	Fiscal 2022 Results	Fiscal 2023 Targets	Fiscal 2030 Targets
ICT/Mobility	Sales from ICT and mobility applications	¥283.5 billion	¥320.0 billion	Create new businesses that accelerate digital innovation
Completion of construction of super-pure hydrogen peroxide plant in China Increase in production capacity for semiconductor materials, etc.	Investments aimed at solving energy and climate change problems	Projected investment: ¥13.9 billion (3-year cumulative)	Investment: ¥12.0 billion (3-year cumulative) Investment: Acquisition;	Commercialize carbon-negative technology
Energy and climate change Development of carbon recycling technology Medical and food Successful mass cultivation of antibody drug producing cells at a scale of 2,000 L	Sales from medical and food applications	¥56.2 billion	Financing: Approval basis ¥50.0 billion	Advance preventative/ predictive medicine; enhance healthy longevity Further advance food preservation technology
Formulated MGC Basic Policy on Health & Productivity Management Expanded support for balancing work and childcare Conducted activities to promote use of paid leave	Percentage taking fewer than 10 days of annual paid leave*1.2	4%	0%	0%
Publishing of a pamphlet for employees designed to foster awareness of respect for diversity Expansion of career training for female employees	_	_	_	_
Response to ESG interviews and stewardship interviews Carbon neutrality presentation for investors	_	_	_	_
Implementation of supplier assessment through CSR surveys	_	_	_	_
Utilization of MGC Group process safety and disaster prevention guidelines Promotion of safety activities through LINK activities	Serious occupational accidents*1,3	1	0	0
Introduction of KY hazard prediction assist system Identification of water risks at manufacturing sites in Japan and overseas (floods, high tides, water shortage) Promotion of responsible care (RC) activities by Group companies	Serious accidents*1,4	0	0	0
Introduction of PI systems in all plants Trials and implementation of AI technology, IoT devices, etc. Examination of introduction of multivariable model predictive control and soft sensors	GHG emissions intensity compared to fiscal 2013* ¹	8.6% reduction	19.9% reduction	28.0% reduction
Maintenance and continuation of MGC Group Quality Management Promotion Meeting activities Promotion of introduction of quality data aggregation systems in all plants	_	_	_	_
Promotion of DX analysis Implementation of education and practical exercises on statistical analysis for researchers	R&D investments devoted to solving climate change problems*1,5	13% of R&D expenditures	5% or more of R&D expenditures	7% or more of R&D expenditures
Promotion of reduction of GHG emissions Identification of water risks in each business site	GHG emissions compared to fiscal 2013*1	34% reduction	28% reduction	36% reduction
Introduction of renewable energy aimed at reducing emission factor of purchased power Consideration of investment for biodiversity conservation	Renewable energy as percentage of electric power purchased*1	19%	10%	50%
Promotion of waste recycling Reduction of occurrence of sudden waste generation through stable production	Zero waste emission rate*1,6	0.25%	0.3% or less	0.15% or less
Consideration of General Meeting of Shareholders operation in response to Companies Act revision Consideration of response to geopolitical risks	*3 Accidents resulting permanent disabilit *4 Accidents that three involving communit serious damage *5 R&D investments in	nted 20 days of annual I in lost work days eligibl y, or potential disability, aten third parties, incluc y or that cause damage	e for disability compens and those with four or r ling those resulting in en to local residents, and pilot plants, technical te	vironmental pollution other accidents involving

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