The Meiji Group TCFD Initiatives

The business of the Meiji Group is based on the abundant gifts of nature. We therefore believe that it is our responsibility to live in harmony with the global environment and nature. However, the sustainability of the global environment is in danger in recent years. We recognize that climate change has a significant long-term impact (risks and opportunities) on our business activities and that it is an important management issue for the Group. At the same time, international frameworks such as the Paris Agreement and the Sustainable Development Goals (SDGs) are calling for increased efforts to address climate change. To contribute to these international efforts, we are implementing climate change initiatives to help realize a decarbonized society.

■ Outline of TCFD Initiatives

□ Achievements

The Meiji Group agreed to join the Task Force on Climate-Related Financial Disclosures (TCFD), which was established by the Financial Stability Board*¹ in 2019. We also joined the TCFD Consortium, which was established by the Ministry of Economy, Trade and Industry, the Ministry of the Environment, and the Financial Services Agency as a place for collaboration between supporting companies, financial institutions and others.

We also established the Group TCFD Committee, which comprises relevant divisions from Meiji Holdings and its Group companies Meiji, Meiji Seika Pharma and KM Biologics, and started implementing TCFD initiatives from FY2019. The purpose of this committee is to reflect climate change-related long-term risks and opportunities in our business activities.

<Achievements>

2019: Participated in the support program of the Ministry of the Environment to conduct scenario analysis.

2020: Conducted scenario analysis in the areas of dairy ingredients and infectious diseases.

2021: In addition to scenario analysis in the areas of dairy ingredients, cocoa, antimicrobials (five domestic Key Drugs*2), and vaccines, calculated the financial impact in the Group as a whole.

*1 An international organization of representatives of central banks, financial supervisory

agencies, and finance ministries in the world's major countries and regions.

*2 Five of the antimicrobials designated as Key Drugs by associations (the Japanese Society of Chemotherapy, Japanese Association for Infectious Diseases, etc.) are manufactured by Meiji Seika Pharma.

□Governance System

Important sustainability activities of the Meiji Group as a whole are discussed by the Executive Committee, supervised by the Board of Directors, and then reflected in management. We have also established the position of Chief Sustainability Officer (CSO) as the senior manager responsible for driving the sustainability activities of the Group as a whole to further strengthen those activities.

The Group Sustainability Committee, which is chaired by the President and Representative Director

Climate Change-related
Group Sustainability Promotion System

Board of Directors

Executive Committee

Group Sustainability Committee

Sustainability Secretariat

Group TCFD Committee

Relevant divisions from Meiji Holdings, Meiji,
Meiji Seika Pharma and KM Biologics

of Meiji Holdings, meets twice a year, and the Group Sustainability Secretariat Committee, which comprises sustainability-related divisions of Meiji Holdings and its Group companies Meiji, Meiji Seika Pharma and KM Biologics, meets monthly. At the meetings, they discuss a range of topics, including initiatives toward addressing social issues and overall progress of sustainability activities. We analyze climate change-related risks and opportunities, as well as responses to them. The Group TCFD Committee (which met five times in FY2020) examines those matters. The results are discussed in the Executive Committee and reported to the Board of Directors, which is responsible for supervision. Since the participation of the Risk Management Department in FY2021, which was newly established in Meiji Holdings, we have established a system to recognize and respond to the impact of climate change as a serious risk for the Group as a whole.

□ Strategy

We recognize that climate change-related risks and opportunities constitute a significant management issue for the Meiji Group. On a medium-term basis, we have established materiality and KPIs including "Reduce CO₂ emission volume" and "Secure water resources" based on our Meiji Group Sustainability 2026 Vision. On a long-term basis, we are promoting initiatives for living in harmony with nature for the future based on the Meiji Green Engagement for 2050, which reflects the Meiji Group's long-term environmental vision.

<FY2020 Achievements>

- In addition to the analysis in the areas of dairy ingredients, cocoa, antimicrobials (five domestic Key Drugs), and vaccines for the entire supplier chain, calculated the financial impact in the Meiji Group as a whole.
- Established two scenarios (2-degree scenario and 4-degree scenario) based on the information of the IPCC*3, IEA*4, etc. to examine climate change related risks and countermeasures on a medium- to long-term basis with the base years of 2030 and 2050.
- The Board of Directors and the Executive Committee examined the results of analysis to confirm and review the countermeasures for achieving the Meiji Group Sustainability 2026 Vision and the Meiji Green Engagement for 2050.

[Overview of Analysis Results]

- Major impacts expected from climate change have many common features regardless of the business areas.
- Major impacts will occur in each process of the supply chain (sourcing, manufacturing, logistics, and sales).
- Assume the risks with high priority based on the degree and probability of each impact.

 4-degree scenario: opportunity loss from flood damage, impact on the sourcing cost of raw materials
- 2-degree scenario: increase in carbon pricing borne by the company, increase in the amount of electricity purchased by the company, increase in carbon pricing borne by dairy farmers and dairy ingredients suppliers
- Expected opportunities
- 4-degree scenario: due to global warming, increase in demand for thirst quenching and heat stroke prevention, and for avoidance and prevention of the risk of infectious diseases
- 2-degree scenario: increase in demand for eco-friendly merchandise due to expansion of ethical consumption

^{*3} Intergovernmental Panel on Climate Change (IPCC): Shared Socioeconomic Pathways (RCP 6, RCP 8.5), etc.

*4 International Energy Agency (IEA): Sustainable Development Scenario, Stated Policies Scenario, etc.

□Risk Management

The Meiji Group is promoting group-wide risk management to ensure it can accurately respond to risks that could severely impact our business activities by treating climate change as a priority risk for management.

The Board of Directors supervises climate change-related risks based on our governance system. Since the newly established Risk Management Department participated in the Group TCFD Committee in FY2021, we have established a system that can be integrated with the risk management for the whole Group.

Recognizing that climate change-related risks and opportunities will change with the times, we conduct quantitative analysis and evaluation with the scenario analysis in line with the recommendations of the TCFD. Based on the results of this analysis, we identify major impacts with high priority and examine countermeasures. We discuss the results in the Executive Committee, supervised by the Board of Directors, and properly reflect the results of the discussions in management to promote risk management.

<Meiji Group Business Risks>

https://www.meiji.com/global/investors/governance/business-risks/

□Indicators and Targets

As indicators related to climate change, we have established KPIs in the Meiji Group Sustainability 2026 Vision and the Meiji Green Engagement for 2050 and are promoting initiatives for achieving them.

Specifically, as countermeasures for the physical risks in the 4-degree scenario, we are working to reduce water consumption volume, promote raw materials sourcing with consideration for human rights and the environment, and improve productivity by supporting farmers.

As countermeasures for the transition risk in the 2-degree scenario, we established a goal of realizing carbon neutrality by 2050 and are reducing CO₂ emission volume in manufacturing processes by measures such as energy saving and energy creation, and in sourcing by reduced use of plastics and other measures.

■ Results in Scenario Analysis

☐ Outline of Analysis

In FY2020, we established two scenarios (2-degree scenario and 4-degree scenario) based on the information of IPCC, IEA, etc. to examine the impact of climate change on a medium- to long-term basis by setting 2030 and 2050 as the base years. We calculated the financial impact in the Meiji Group as a whole and examined countermeasures, in addition to the analysis in the areas of dairy ingredients, cocoa, antimicrobials (five domestic Key Drugs), and vaccines.

Business Segment	Food	Pharmaceutical			
Company	Meiji Co., Ltd.	Meiji Seika Pharma Co., Ltd.			
		KM Biologics Co., Ltd.			
Target area of analysis	Dairy ingredients and cocoa	Antimicrobials (5 Key Drugs)			
		Vaccines			
Scope of financial impact	Meiji Group	as a whole			
calculation					
Analysis Base Year	2030 (medium term) 2050 (long term)				

☐ Effect and Major Impact on the Meiji Group in Each Scenario

Major impact in the 4-degree scenario						
	Change related to climate change	Majarimpasta	Impact on Meiji Group			
	Change related to climate change	Major impacts	Supply chain	Specific impact		
Physical risks	Change in growth environment of biological resources due to changes in temperature, precipitation, etc.	Decrease in yield of raw materials	Sourcing	Impact on raw materials sourcing cost		
	Increase in severity and frequency of typhoons, torrential rains, etc.	Opportunity loss from flood damage	Sourcing Manufacturing and logistics	Opportunity loss due to site shutdowns, etc.		
Opportunities	Change in lifestyle due to rising atmospheric temperatures	Change in demand due to global warming	Sales	Increase in demand for products for thirst quenching, heat stroke prevention, etc.		
	Change in lifestyle due to new infectious diseases or increased risk of infectious diseases	Change in demand due to avoidance of infectious disease risk	Sales	Increase in demand for vaccines and immune-activation products		

^{*} Physical risk: Damage from disasters, etc. caused by climate change

Major impact in the 2-degree scenario						
	Change related to climate change	Major impacts	Impact on Meiji Group			
	Change related to climate change	мајот шірасіз	Supply chain	Specific impact		
Transition risks	Reinforcement of the government's	Introduction of	Manufacturing	Increase in carbon pricing cost to be borne by the company		
	environmental regulations	carbon pricing	Sourcing and logistics	Increase in cost of carbon pricing compliance to be borne by farmers and suppliers		
	Expansion of investment in power facilities	Increase in amount of electricity purchased	Manufacturing	Increase in cost of purchasing renewable energy derived electricity		
	due to increase in renewable energy	electricity purchased	Manufacturing	Increase in normal electricity purchase cost		
Opportunities	Change in lifestyle due to improvement of environmental awareness	Expansion of ethical consumption	Sales	Increase in demand for environmentally friendly products		

^{*} Transition risk: Risk arising in transition to a decarbonized society for mitigating climate change

Identify the major impacts with high priority based on the risk impact and probability <Major impacts with high priority>

- 4-degree scenario: opportunity loss from flood damage, impact on the sourcing cost of raw materials
- 2-degree scenario: increase in carbon pricing borne by the company, increase in the amount of electricity purchased by the company, increase in carbon pricing borne by dairy farmers and dairy ingredients suppliers

☐ Response to Major Impacts with High Priority

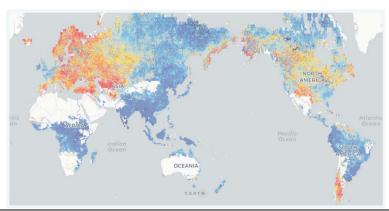
[Major Impacts in the Areas where Meiji Group can Respond Proactively]

[4-degree scenario]

Risks

Confirm the predictions of flood frequency in the future and **identify areas with high flood risk** by evaluating water risk at the in-house production bases of Meiji Group in FY2020.

<Flood frequency prediction map *5>



Responses

(Non-structural measures)

- Prepare an emergency action manual with top priority on saving lives.
- Conduct evacuation drills in ordinary times.

(Structural measures)

- Risk reduction by decentralizing production bases.
- Mitigate flood damage by reinforcing waterproofing equipment, such as waterstops and waterproof walls. *6
- < Waterstop installed in Oda Plant, Meiji Seika Pharma>



*5 Source: MS&AD InterRisk Research & Consulting, Inc. "Map of projected changes in flood frequency due to climate change"

Hirabayashi, Y., Tanoue, M., Sasaki, O. et al. Global exposure to flooding from the new CMIP6 climate model projections. Sci Rep 11, 3740 (2021).

https://doi.org/10.1038/s41598-021-83279-w

*6 Please access the website below for the measures for responding to water resources. https://www.meiji.com/global/sustainability/caring_for_the_earth/water/

[2-degree scenario]

	z degree scenaroj									
Risks	 Predict full-scale introduction of carbon pricing in Japan in the future. Assume the application of carbon pricing to in-house direct emissions 									
	(Scope 1) and indirect emissions due to purchase of electricity, etc. (Scope 2)									
	in CO ₂ emission volume resulting from the business activities of Meiji Group.									
Responses*7	- Establish a long-term target of realizing carbon neutrality by 2050.									
	- Promote reduction of CO ₂ emission volume through energy saving activities,									
	energy creation activity by solar power	genera	ation, p	urchase	of rene	wable				
	energy derived electricity, etc.									
	- Consider acquisition of SBT certificatio	n and ir	ntroduct	ion of ir	nternal c	arbon				
	pricing.									
	- Proactively consider introduction of new technologies, next-genera									
	energy, etc.									
	Effect of introducing carbon pricing		(Unit	: hundred n	nillion yen)					
		4-degree	scenario	2-degree	scenario					
		2030	2050	2030	2050					
	When taking no measures to reduce CO ₂ emission volume	33	46							
	When implementing countermeasures to reduce CO ₂ emission volume 4 5 24 3.									
	Effect of countermeasures to reduce impact	3	6	9	14					

^{*7} Please access the website below for the initiatives to reduce CO₂ emission volume. https://www.meiji.com/global/sustainability/caring_for_the_earth/climate_change/

purchasing of renewable energy der - Reduce amount of electricity pu	·
- Reduce amount of electricity pu	المراج ومراريهم ويرسونهم ومرالم مرايي ويرا الممم مراجين
· ·	irchased by expanding energy saving and
energy creation.	
< Tokai Meiji>	<meiji america="" ana="" plant="" santa=""></meiji>
	energy creation. Tokai Meiji>

\square Impacts of Concern in Raw Material Sourcing

Risks	Impact of	f climate change on agricultural and livestock products is						
	assumed in l	ooth 4-degree and 2-degree scenarios.						
	4-degree	- Yield decrease in raw materials, such as fresh milk, dairy						
	scenario	ingredients, and cocoa beans, due to changes in air temperature,						
		precipitation, etc., implementation of summer heat						
		countermeasures, etc. might affect sourcing cost.						
	2-degree	- Assume introduction of carbon pricing for raw materials.						
	scenario							
Responses	Product-	- Promote added value enhancement to improve the competitive						
	related	edge in the market.						
	response	- Optimize product portfolio.						
	Response	- Strengthen our relationship with farmers for stable						
	to maintain	procurement through Meiji Group's unique initiatives (Meiji						
	stable	Cocoa Support (MCS) and Meiji Dairy Advisory (MDA)).*8						
	sourcing	<mcs activity=""> <mds activity=""></mds></mcs>						
	Response	- Study of low carbon dairy farming						
	to reduce	- Cooperation with dairy farmers for realizing low carbon dairy						
	CO ₂	farming						
	emission							
	volume							

^{*8} Please access the following websites for initiatives for sustainable sourcing, such as support to farmers.

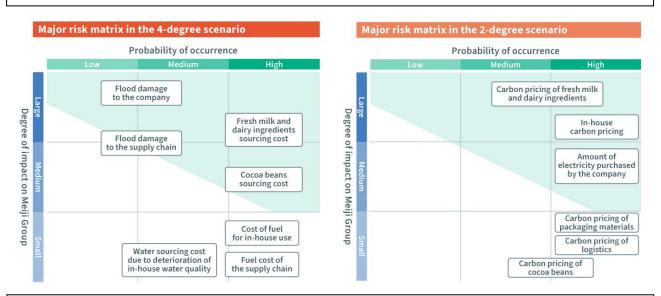
https://www.meiji.com/global/sustainability/sustainable_procurement/

■ Reinforcement of Risk Management Initiatives

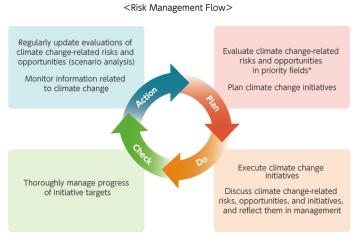
For identification and evaluation of risks, we create a risk matrix based on the results of scenario analysis considering the degree and probability of risks. We then identify major impacts with high priority, manage them properly in accordance with the risk management flow, and promote their reflection in management.

Major impacts with high priority

- 4-degree scenario: opportunity loss from flood damage, impact on the sourcing cost of raw materials
- 2-degree scenario: increase in carbon pricing borne by the company, increase in the amount of electricity purchased by the company, increase in carbon pricing borne by dairy farmers and dairy ingredients suppliers



Clarify the prioritization of major impacts based on the degree and probability of impacts on the Meiji Group



^{*} Key areas of focus are those related to the "Major impacts with high priority" mentioned above, as well as "new important major impacts" that will arise in the course of scenario analysis.

■ Specific Initiatives in Indicators and Targets

The Meiji Group has developed the Meiji Group Sustainability 2026 Vision and Meiji Green Engagement for 2050, which reflects the Meiji Group's long-term environmental vision, and has established materiality and KPIs for them. There are various measures for risks and opportunities related to climate change, including activities to reduce environmental impacts, raw material sourcing, and provision of commercial value. We regularly check our progress in each KPI and take a systematic approach to achieve the targets. We evaluate check results as part of the Meiji ROESG® *9indicators and reflect them in executive remuneration.

When new risks and opportunities arise, we investigate appropriate responses, discuss them in the Executive Committee, supervised by the Board of Directors, and reflect the results of the discussions in management.

<KPIs associated with climate change related risks and opportunities>

Major impacts	Category	KPI	5		
Countermeasures		Sustainability 2026 Vision	Long-term environmental vision		
Introduction of	CO ₂ emission	Reduce company-wide CO ₂	Reduce company-wide CO ₂ and		
carbon pricing	volume	emissions (Scope 1, 2) by at least	other greenhouse gas emissions		
		40% by FYE 3/2031 (compared to	to nearly zero in the whole		
		FYE 3/2016)	supply chain by 2050		
	Renewable	Expand renewable energy usage	Achieve 100% share of		
	energy usage	to make up at least 50% of total	renewable energy in total		
		company-wide usage by FYE	power usage at each site by		
		3/2031	2050		
	Plastic usage	Reduce domestic plastic usage,	Minimize use of new natural		
		(packaging, etc.) by at least 25%	capital for packaging		
		by FYE 3/2031			
		Increase use of biomass plastics			
		and recycled plastics			
Water	Water	Reduce company-wide water	Reduce company-wide water		
Sourcing	consumption	consumption volume per unit of	consumption volume per unit of		
cost	volume	sales by at least 20% by FYE	sales by 50% by 2050,		
		3/2031, compared with FYE	compared with FYE 3/2018		
		3/2018			
Product-related	Development of	Increase the sales growth of			
response in the	products that	products that contribute to healthy			
impact on	contribute to	diets, value-added nutrition			
product sourcing	healthy dietary	products, and products that			

		I
	habits	contribute to a super-aged society
		by at least 10% compared with FYE
		3/2021 baseline by FYE 3/2024
Response to	Procure raw	Increase procurement ratio of
stable sourcing in	materials with	sustainable cocoa beans to 100%
the impact on	consideration	by FYE 3/2027
product sourcing	for human	
	rights and the	
	environment	
	(cocoa)	
	Procure raw	Conduct MDA activities to provide
	materials with	management-related support to
	consideration	dairy farmers at least 400 times a
	for human	year and at least 2,150 times in
	rights and the	cumulative total by FYE 3/2024
	environment	
	(fresh milk)	

^{*9} The ROESG performance indicator was created and registered as a trademark by Professor Kunio Ito of Hitotsubashi University.

<progress and="" change="" climate="" for="" indicators="" initiatives="" of="" various=""></progress>
□ Indicators for carbon pricing introduction
•CO ₂ emission volume
https://www.meiji.com/global/sustainability/caring_for_the_earth/climate_change

·Renewable energy usage

https://www.meiji.com/global/sustainability/caring_for_the_earth/climate_change/

Plastic usage

https://www.meiji.com/global/sustainability/caring_for_the_earth/recycling_society/

- \square Indicators for water procurement cost
- Water consumption volume

https://www.meiji.com/global/sustainability/caring_for_the_earth/water/

- □ Indicators for product-related response in the impact on product procurement
- •Development of products that contribute to healthy dietary habits

https://www.meiji.com/global/sustainability/healthier_lives/health_nutrition/

□ Indicators	for room	anca ta	ctable	courcina	in t	ha imi	aact on	product	courcine
□Indicators	TOLLESP	JIISE LO	Stable	Sourcing	III (ле шц	Jack On	product	Sourcing

•Procure Raw Materials With Consideration Toward Human Rights and the Environment (cocoa)

https://www.meiji.com/global/sustainability/sustainable_procurement/

•Procure Raw Materials With Consideration Toward Human Rights and the Environment (dairy ingredients)

https://www.meiji.com/global/sustainability/sustainable_procurement/