Climate Change Responses

Disclosure based on TCFD recommendations

Attitude

For many years, the Meiden Group has been aware of the major problem of climate change, and has worked to solve this problem through business. With regard to TCFD*, we endorsed the TCFD recommendations in June 2019, we began considering risks and opportunities according to the TCFD framework in 2020, and we are promoting the incorporation of this in our strategies.

As society places more emphasis on the issue of climate change, in Medium-term Management Plan 2024, which was released in FY2021, we pledged to "promote sustainability management," and we aim to accelerate promotion of management and development of businesses to realize a carbon-free society.

* TCFD: Task Force on Climate-related Financial Disclosure established by the Financial Stability Board (FSB)

Governance/risk management Governance

The Sustainability Management Strategy Committee and the Sustainability Management Promotion Committee handle all general matters involving sustainability and these two committees explore potential strategies to enact for decarbonization. The manager in charge of promoting sustainability and the Sustainability Management Promotion Division both report on the content of these meetings twice annually to the Board of Directors and the Executive Officers' Meeting. Alongside these efforts and as a way of managing the promotion of environmental activities within the Group, the Meiden Group Environmental Committee, which is chaired by a production manager, meets quarterly to uncover issues within the Company, set environmental goals, devise action plans, and discuss emergency responses in order to promote and monitor the deployment of concrete policies for environmental management.

Risk Management

To manage sustainability-related risks,

the Sustainability Management Promotion Division, which is charged with promoting sustainability management, operates centrally with relevant departments to extract risks. The details of those risks are incorporated into all the risks managed by the Governance Headquarters, which simultaneously manages a variety of risks, including those related to climate change.

Strategy

Analysis of Climate Change Scenarios

The Sustainability Management Promotion Division analyzes climate change scenarios in conjunction with relevant departments. The scenario analysis examination process is divided into four parts, with analysis and evaluations conducted annually. At the same time, major factors that could impact business are identified, and identified risks, opportunities, and evaluations are reflected in our business strategy.





Defining Scenario Types

As recommended by TCFD, we identified scenarios at multiple levels of warming, including a scenario of less than 2°C, and conducted analysis accordingly. Based on the two scenarios of decarbonization (RCP1.9) and global warming (RCP4.5 and RCP8.5), we have compiled and evaluated global outlooks for 2030 to accommodate each scenario using management frameworks such as five forces analysis, based on international published data from the IEA, IPCC, etc., as well as numerical data published by Japanese government institutions, etc.

	Temperature range	Relevant scenario	Provider
Decarbonization	¹ Less than 1.5°C ⁻	NZE2050	IEA
scenario		RCP1.9	IPCC
	2.5 to 4.0°C	STEPS	IEA
Global warming scenario		RCP4.5	IPCC
		RCP8.5	IPCC

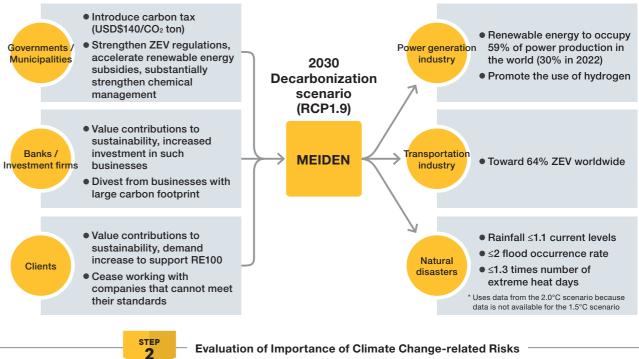
Analysis of Climate Change Scenarios

Of the selected scenarios, the following is the outlook under the Decarbonization Scenario.

OUR STRATEGY

Decarbonization scenario

Broad growth in renewable energy and the EV marketplace, as well as the continued spread of hydrogen power.



We have set out factors for climate change risks and opportunities according to the outlook of each scenario, giving reference to the risks and opportunities in the TCFD recommendations.

Factors for Risks and Opportunities	Societal Scenario	Opportunities and Risks for Meiden	Relevant Businesses
Opportunities to reduce GHG emissions Increased government subsidies	Decarbonization of the transport industry	Expanded EV-related business	EV business/Battery storage-related
 Increased government subsidies Accelerated technological developments Transition to a decentralized society 	Increased ratio of renewable energy	Expanded renewable energy business	Wind/Hydroelectric/Photovoltaic storage/Solar generation/Battery storage-related /Hydrogen-related
 Increased regulations to reduce GHG emissions Electric companies shift toward decarbonization 	Restrictions on chemical substances such as SF ₆	Expanded Power T&D Business	Zero SF ₆ products/Environmentally friendly products
Changing stakeholder mindset	Increased customer demand for being carbon-free	Increased demand for environmentally friendly products and services	Environmentally friendly products and services (including green products)
 Opportunities to reduce GHG emissions Tightening of legal restrictions 	Introduction of a carbon tax	Increased procurement and manufacturing costs	All companies
• Opportunities to reduce GHG emissions	Rising prices from growing demand for EV and renewable energy components	Increased procurement and manufacturing costs	EV business/Renewable energy business
 Increased frequency of extreme weather events 	More water-related disasters	Suspension of operation/Collapse of supply chain Increased costs to respond to water- related disasters	Production sites
Opportunities to reduce GHG emissions Changing stakeholder mindset	Increased pressure on environmentally burdensome businesses	Reduced sales in relevant businesses	Diesel/Gas engine generators Ceramic membrane business
Rising average temperatures	Worsening working environments	Increased personnel expenses at sites	Manufacturing/Maintenance/ Construction service business units
Increased proportion of renewable energy	Increased cost of industrial electricity	Increased power procurement costs	All companies

For more information on the Global Warming Scenario, see "Disclosure based on TCFD recommendations" on our website https://meidensha.disclosure.site/en/themes/139

OUR STRATEGY

OUR APPROACH



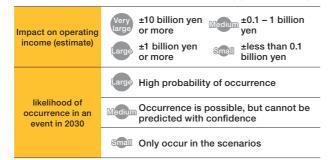
We are evaluating business impact through discussions with relevant parties within the Company, such as the Corporate Policy Planning Group, the Accounting & Financing Group, the Corporate Governance Management Group, and business units, based on the scenarios and outlooks set out in Step 1 and the opportunities and risks set out in Step 2.

In the course of this, we screened matters that have a particularly large impact on businesses by focusing on the two axes of "impact on operating income" and "likelihood of occurrence in an event" in FY2030, and conducted detailed analysis of these matters. We assessed precountermeasure outcomes based on the rate of market growth in each scenario for each large-impact item. These

Business Impact Evaluation

were quantitatively calculated using partial assumptions, and items with unachievable results were organized qualitatively.

Evaluation axes for selection of risks and opportunities (2030)



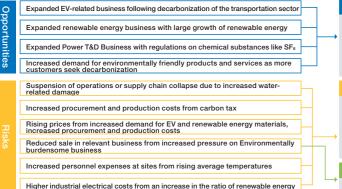
* The following values were calculated with a focus on the market growth rate and do not represent a designated target value for the Company.

	Opportunities			Impact on FY2030	
	and risks for our Company	Relevant Businesses	Calculation formula	Decarbonization scenario (RCP1.9)	Global warming scenario (RCP4.5, 8.5)
Decarbonization of the transport industry	Expanded EV-related business	EV business/Buttery storage-related	Recent average sales × ZEV stock growth ratio	Large	Medium
Increased ratio of renewable energy	Expanded renewable energy business	Wind/Hydroelectric/Photovoltaic storage/Solar generation/Battery storage-related/Hydrogen-related	Recent sales × growth rate of domestic renewable energy	Small	Small
Restrictions on chemical substances such as SF_6	Expanded Power T&D business	Zero SF $_{\!\!\!6}$ products/Environmentally friendly products	Recent sales of relevant products × VCB market growth rate	Medium	Medium
Increased customer demand for being carbon-free	Increased demand for environmentally friendly products and services	Environmentally friendly products and services (including green products)	a [*] Cannot calculate at this time because green product standards are being revised	-	-
Introduction of a carbon tax	Increased procurement and manufacturing costs	All companies	2030 Scope 1, 2 emissions × carbon tax 2030 Scope 3 Category 1 emissions × carbon tax	9.6 billion	N/A
Rising prices from growing demand for EV and renewable energy components	Increased procurement and manufacturing costs	EV business/Renewable energy business	Cost of transitioning relevant business × rate of cost increases	Medium	Small
More water-related disasters	Suspension of operation/ Collapse of supply chain Increased costs to respond to water-related disasters	Production sites	Assumed cost of each incident in 2030 using Ministry tools × occurrence rate in each scenario, etc.	Large	Large
Increased pressure on environmentally burdensome businesses	Reduced sales in relevant businesses	Diesel/Gas engine generators Ceramic membrane business	2030 business sales × state of each scenario	Medium	N/A
Worsening working environments	Increased personnel expenses at sites	Manufacturing/Maintenance/ Construction service business units	Number of site personnel in 2030 × medical and health-care costs	Small	Small
Increased cost of industrial electricity	Increased power procurement costs	All companies	Power usage in 2030 × rising cost of industrial power	Medium	Small

STEP

Consideration of Response Measures

We considered development of strategies to grasp opportunities and measures to mitigate risks according to the situation of the Company, based on the outcomes calculated in Step 3.



1	Cli	imate change can b	e a chance to "Grow businesses that contribute to GHG reductions"		
l	•	Generating power	through renewable energy (hydroelectric, wind, solar generation)		
	•	Transporting power	through T&D (change to not using SF ₆)		
	•	Using power	with logistics (products driven by EV & HEV)		
	•	Common goals	with environmentally friendly products and services (green products)		
	Decarbonizing internally reduces Scope 1 and 2				
I	Departmenizing intermelly, reduces Seens 1 and 2				
	•	Responding to water-related damage through BCP-related policies			
	•	Increasing the cost of industrial power supplies by investigating in-house consumption, etc.			
	Worsening factory working conditions to improve workplaces				
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		Revise t	he direction of Environmentally burdensome business		
		Business portfolio	reviews that include the environment		

Metrics and Targets

We see changes due to climate change as business opportunities, and are implementing strategies to mitigate risks.

From a business perspective, we will particularly contribute to the creation of a carbon-free society through further expansion of the EV and Renewable Energy businesses. We also released the Second Meiden

Second Meiden Environmental Vision Targets (Targets and results compared to FY2019 levels)

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activities (Scope 1+2)

Emissions from product u

(Scope 3, Category 11)



Emissions from business

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

* SBT Initiative: An international initiative by the United Nations Global Compact (UNGC), the Worldwide Fund for Nature (WWF), the CDP, and the World Resources Institute (WRI)

Future Path

Although we have identified the growth opportunities and risks facing the Meiden Group through analysis of scenarios based on the TCFD recommendations, in most instances, calculation of impact is merely a rough estimate, and further precision is needed. Furthermore, we are promoting response to climate-related metric categories across multiple industries in the TCFD

TOPICS

Offsite Physical Corporate PPA Signed, Using Wind Farm Operated by Meiden Group

On April 1, 2024, Meidensha, M WINDS CO., LTD., and TEPCO Energy Partner, Incorporated ("TEPCO EP") entered into an offsite physical corporate PPA ("the PPA"). This arrangement uses electric power from renewable energy ("the renewable power"*1) from Choshi Shiosai Wind Farm ("the power plant") owned and operated by M WINDS, a wholly owned subsidiary of Meidensha.

Concerning the renewable power generated with the plant, the previous arrangement used FIT non-fossil certificates*2 with tracking information by TEPCO EP to provide only environmental value to three Tokyo area sites of the Meiden Group (R&D Center, Osaki Kaikan Hall, and Meiko Bldg.) using the Green Basic Plan.*3

Now that the PPA has been concluded, both the power generated at the plant and the environmental value will be provided, in addition to the Green Basic Plan that TEPCO EP was already offering. With the addition of Meidensha's Numazu Works and KOFU MEIDENSHA ELECTRIC MFG. CO., LTD., a total of five locations will be supplied. Part of the power used at the five Meiden Group locations will be the renewable power from this power plant.



Environmental Vision as our environmental goals in FY2021, and we have disclosed 2030 GHG reduction targets for scopes 1, 2, and 3 in order to reduce internal risks. These goals have received SBT recognition. We will work with our suppliers to achieve our targets. In addition, we pledged to reach RE100 by 2040 and carbon neutrality by 2050, in November 2021, as our medium- to long-term targets.

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	FY2023		FY2024	FY2030	
	Plan	Actual	Plan	Plan	
Japan	8% reduction	17% reduction	10% reduction		
verseas	3% reduction	8% increase	4% reduction	_	
Total	5% reduction	11% reduction	6% reduction	30% reduction	
se	_	7% reduction	6% reduction	15% reduction	

Second Meiden Environmental Vision including FY2030 targets has received SBT (science based targets) certification.

recommendations, which require new disclosure. Along with this, we are considering establishing ESG (environment, social, and governance) metrics, incorporating them in our standards for calculating officers' remuneration, and further strengthening governance, in order to increase the effectiveness of sustainability management promotion.