Message from Top Management Overview of the Kirin Group INPUT BUSINESS OUTPUT / OUTCOME Special Feature Governance Strategies and Reviews of TCFD • TNFD Reference

Disclosure Based on the TCFD and TNFD Frameworks

Impact of Climate Change and Natural Capital on Business and Kirin Group's Holistic Approach

The Kirin Group's businesses use natural capital as an input to add and deliver values to customers. The businesses make negative impacts, such as GHG emission and inappropriate disposal of containers of products, on the nature capitals through their value chains. The negative impacts consequently influence long term availability of raw materials. The Kirin Group's attitude is to understand interrelations and trade-offs between business activities and environmental problems and to apply holistic approaches to solve the problems.

The Kirin Group analyzes the risks and opportunities that various sustainability issues, including environmental challenges, pose to society and the company, and reflects the risks and opportunities in its strategies to enhance resilience. It then discloses information to various stakeholders in accordance with the frameworks recommended by the Task Force for Climate-related Financial Disclosure (TCFD) and the Task Force for Nature-related Financial Disclosure (TNFD).

Disclosure Framework

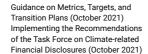
The Kirin Group has disclosed climate related financial information since 2018 in conformity with the recommendations published by the TCFD in 2017. The Kirin Group was a global pioneer in disclosing information based on the "LEAP" approach advocated in the beta version of the TNFD framework in 2022. From 2023, we began holistic information disclosure on climate change and natural capital based on both frameworks.

This section describes how the Kirin Group is analyzing and assessing climate change and natural capital challenges, enhancing resilience, and driving a holistic transition strategy to lead a decarbonized society and address natural capital challenges in a nature positive manner, in accordance with new TCFD quidance

released in October 2021 and TNFD recommendations released in September 2023.

Details are available in our Environmental Report and on the company's website.







Taskforce on Nature-related Financial Disclosures (TNFD) Recommendations (September 2023) Taskforce on Nature-related Financial

Governance

Supervisory structure

At the Kirin Group, the Board of Directors discusses and decides the basic policy for all environment-related issues, medium- and long-term strategies, annual plans, and important non-financial targets and KPIs, including environmental targets. It supervises the execution of the Group's environmental operations, including climate change, natural capital, and a circular society, on a quarterly basis through monitoring the progress of non-financial targets.

The Board monitors risks and opportunities assessed and identified by operating companies, based on reports from the Group Risk and Compliance Committee Secretariat. It also makes resolutions concerning important risks (including environmental management strategies, action plans, the status of progress, and scenario analysis results) identified in risk management processes and materiality assessments. The Board supervises the effectiveness of environmental management through these discussions and reports from subordinate organizations.

Excerpts of the reports of the Board of Directors for fiscal 2023 (Held 3 times)

- June 16
- •To promote environmental investment, the Kirin Group will plan to introduce a management system where execution of environmental investments and performance evaluations are linked. Additional environmental investments will be determined by closely monitoring technological innovation and energy price trends.
- •The Kirin Group will consider introducing a framework that can respond to business attributes and business profit levels that vary by industry and region.
- •The board confirmed the practicality of a process whereby profits and GHG reductions (and the investments and costs required to achieve them) are agreed simultaneously and set between Kirin Holdings and Group companies.

▶ July 31

- *Based on the results of a desktop survey of changes in the internal and external environment and employee questionnaires, the board decided to update GMM for the next 2025 Medium-term Business Plan instead of the 2024 plan.
- •It was reported to the board that in the EU, the Corporate Sustainability Reporting Directive (CSRD) will gradually make it mandatory for companies outside the EU to also disclose information in line with the European Sustainability Reporting Standards (ESRS) starting this year. Although the starting year differs depending on the size of the company, the European subsidiaries of Kyowa Kirin and Kyowa Hakko Bio are subject to disclosure requirements and will need to take action in the future.
- *It was reported to the board that the Kirin Group was ahead of its peers in disclosing environment-related financial information integrating TCFD and TNFD beta versions (September 2023) in its Environmental Report.

November 13

- •The Kirin Group started extensive reviews of non-financial information disclosure-related issues for the Group and each operating company, with a view toward conformity with the International Sustainability Standards Board (ISSB) and ensuring smooth and accurate non-financial disclosure.
- *It was reported to the board that the Group's ESG rating is roughly in line with global alcoholic beverage companies and that the alcohol sector is recognized as a higher risk sector in the ratings.

Operating Companies

•The board confirmed that the Kirin Group will shift its business portfolio to health science segment and improve its reputation as a leading company in chemical recycling of PET bottles, nature positive approach, and disclosures based on TNFD framework, aiming to become a global leader in CSV.

Executive structure

In the Kirin Group, the Group Executive Committee deliberates and makes resolutions concerning the setting and revision of important targets, as well as investment plans, related to environmental issues as a whole, such as climate change, natural capital, and the circular economy. The Group Executive Committee receives reports from operating companies and divisions on the status of achievement of targets and risks, and supervises these operating companies and divisions.

The Group CSV Committee has been established to discuss environmental and other CSV issues across the Kirin Group. The committee is an advisory body to the CEO and is chaired by the CEO of Kirin Holdings, with its members being the CEOs of major Kirin Group companies and senior officers of Kirin Holdings. In 2022, Kirin Holdings increased the frequency of meetings of the Group CSV Committee and newly established the Group Environmental Meeting under the Group CSV Committee. Through this structure, Kirin Holdings is strengthening its initiatives targeting sustainability-related issues, as required by Japan's Corporate Governance Code following revisions in 2021.

Committees	Chairperson	Committee Members	Main agenda	Meeting Frequency
Group CSV Committee	CEO of Kirin Holdings	-Executive officers of Kirin Holdings -CEOs of the Group's major operating companies in Japan and overseas	Exchange of opinions on Group CSV policies, strategies, and action plans Monitoring the status of implementation of CSV-related initiatives at Group companies Reporting from affiliated meetings	Three times a year, held once as the Group ESG meeting
Group Environmental Meeting	Executive officer of CSV	-Executive officer in charge of Supply Chain Management strategy of KH -General Manager of CSV Strategy Department of KH -General Manager of Corporate Strategy Department of KH -General Manager of Finance Department of KH -General Manager of Research & Development Division of KH -General Manager of Procurement Department of KH -General Manager of Corporate Communications Department of KH -Deputy General Manager of IR Section of KH -General Manager of General Manager of Technology Development Department of Kirin Brewery	·Monitoring progress of various road maps for the realization of the Kirin Group Environmental Vision 2050 and exchanging opinions on policies, strategies, and plans	Twice a year

Performance-linked remuneration

Considering the importance of environmental issues, including climate change, we have established environmental KPIs (water efficiency (Australia), percentage of recycled resins used in PET bottles (Japan), GHG emission reduction (global, Scope 1+2)) as management indicators in our Medium-Term Business Plan and set executive remuneration to be linked to the evaluation of their achievement.

Environmental issues, including climate change, are targeted as non-financial KPIs for Group companies, and the KPIs are reflected in each company's management plan and senior officers' performance evaluations, applying CSV commitment management process.

Risk Management

For risks such as climate change, which will have an extremely large impact on our businesses if they occur, even though the probability of occurrence is uncertain, we have adopted a new approach to identify and examine important risks by setting scenarios and using them to analyze and assess risks. In scenario analysis, we utilize various research papers, science-based risk assessment tools such as Aqueduct,*1 etc. The Group Environmental Meeting and the Group CSV Committee share and discuss risks and opportunities identified through scenario analysis, then submit and report them to the Board. The Group Risk and Compliance Committee Secretariat also receives reports on such risks, and manages them together with other risks.

Additionally, we appropriately reflect internal examples of sustainability-related risks, such as responses to climate disasters, in annual risk and compliance training for all employees, and share this information within the Group in order to strengthen resilience across the Group as a whole.

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^{*1} Aqueduct is a data platform run by the World Resources Institute (WRI), an environmental research organization. Aqueduct is comprised of tools that help companies, governments, and civil society understand and respond to water risks.

Message from Top Management Overview of the Kirin Group BUSINESS OUTPUT / OUTCOME Special Feature Strategies and Reviews of TCFD • TNFD Reference Governance Operating Companies

Results of Impact Assessment and Response Strategy

Since 2017, we have continuously conducted climate change scenario analysis, which has improved our level of understanding and strategies related to risks and opportunities posed by climate change. In addition to our own production sites and breweries, we analyze the financial impact of factors such as yields of agricultural products, procurement costs, and carbon pricing, etc. The financial impacts related to natural capital and containers and packaging are estimated based on the following approach, considering factors such as dependency and impact on nature.

The financial impact and strategy are as follows.

Financial impacts

	Business Risks/Social Issues	Financial impact	Strategy	
Physical risks	Desline significant and substantial and substa	2°C scenario: Approx. 1.1 billion yen to 3.0 billion yen	Brewing technology that does not rely on barley Mass plant propagation technologies	
	Decline yields of agricultural products	4°C scenario: Approx. 3.2 billion yen to 10.4 billion yen (2050)*2	·Support for farms to acquire certification for sustainable agriculture	
	Disruptions of operations owing to floods	Approx. 1 billion yen (200-year disasters, total of 20 locations in Japan)	·Sharing flood knowledge ·Equipment and facility measures against flooding	
	Disruptions of operations owing to drought	Approx. 0.03 billion yen to 0.6 billion yen	Sharing drought knowledge Development and deployment of water usage reduction technology	
	Negative impact of PET bottles	Approx. 1.1 billion yen	•Expansion of mechanical recycling •Establishment of chemical recycling manufacturing technology	
		2°C scenario: Approx. 7.7 billion yen	·Achieving GHG emission reductions	
	Financial impact of energy due to carbon pricing	4°C scenario: Approx. 1.2 billion yen (2030)*3	·Energy transition on a profit and loss neutral basis	
Transi-		2°C scenario: Approx. 0.9 billion yen to 2.1 billion yen	·Mass plant propagation technologies	
tional risks	Financial impact of agricultural products due to carbon pricing	4°C scenario: Approx. 4.0 billion yen to 7.6 billion yen (2050)*4	•Support for farms to acquire certification for sustainable agriculture	
lisks	Procurement of certified products from certified sustainable farms	Approx. 0.06 billion yen	Support for farms to acquire certification for sustainable agriculture Procurement of sustainable raw materials	
	Maintenance of immune function in healthy people	Market for immunity and health supplements Approx. 28,961.4 million US dollars (2030)	·Contribution in the Health Science domain	
opportu- nities	Prevention of heatstroke	Market for non-alcoholic beverages that prevent heatstroke: Approx. 94.0 billion yen to 188.0 billion yen (2100, 4°C scenario)	·Contribution in heatstroke-prevention beverages	
	Reduction of food waste	Approx. 0.9 billion yen	·Reduction of product disposal	
	Reduction in costs associated with the reduction of chemical fertilizers and pesticides for coffee farms in Vietnam	0.11 billion yen* ⁵	·Enhancement of engagement	

- *2 Assessed using the middle 50th percentile of the distribution of forecast data for price fluctuations *3 Cases when GHG emissions are not reduced

Result of analysis of the impact on Assets

Kirin Holdings estimated the impact of the sale of Lion's non-alcoholic beverages business in 2021 and the Myanmar business in 2023. Physical and transitional risks have not changed significantly. Based on a retrospective review of the impact on the GHG emission reduction targets of the divested businesses back to the base year, we have determined that there is no need to restate the reduction targets.

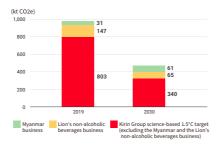
The company estimated exposure to general 200-year disasters (total of 20 business sites in Japan) is as follows. The company also investigated and analyzed the possibility of being forced to discontinue the use of boilers, delivery trucks, and other equipment before the end of their service life owing to laws and regulations, etc. Kirin Holdings believes that it is unlikely that there will be a material financial impact on our assets due to tightening of the laws. For reference, the company discloses this information as "Residual value of related facilities".

In scenario analysis, the company has utilized multiple research findings and included differing views, but taken as a whole, the findings show that the impact of climate change on agricultural products and water is inevitable, which is consistent with the above recognition.

Although the company has judged that there will be no major impact that will change the structure of its industry, the impact that the company will face depending on ecosystem services generated by natural capital to create value will not be small. The company has determined that it is essential to continue its focus on reducing GHG emissions, working to make agricultural production areas sustainable, and addressing water risk and water stress.

The company understands the social issues related to heatstroke and infectious diseases caused by climate change. Also, the company expects to contribute in the health domain, which the Kirin Group defines as a growth area.

Impact on GHG emissions from divestment



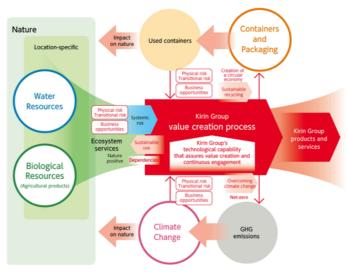
Assets exposed to risk

	Analysis item	Impact
Impact of	Before business divestment	515 kt CO2e
divestment	After divestment	463 kt CO2e
Assets exposed	Exposure	Approx. 1.0 billion yen
to risk	Related assets Residual value	Approx. 1.1 billion yen

Strategy

As shown in the Kirin Environmental Value Correlation Chart, global warming due to climate change, changes in rainfall, and natural disasters have significant impacts on agricultural products and water, which are important raw materials. On the other hand, conservation and restoration of natural capital can also be climate change mitigation and adaptation measures under the realm of Nature-based Solutions to social issues. The company understands these relationships and take holistic approaches to solve environmental issues by leveraging our research, technology development, and engineering capabilities.

Kirin's Environmental Value Correlation



- ▶ With regard to climate change, Kirin Holdings sets net zero emissions target for 2050 in the Kirin Group's Environmental Vision 2050, which was renewed in 2020 using TCFD scenario analysis as input. The company sets intermediate targets by setting SBT 1.5°C target and joining RE100. The company encourages reduction of GHG by business partners in addition to the company's own emissions.
- For natural capital, the company will consider location-specific conditions and dependency under the Kirin Group Action Plan for the Sustainable Use of Biological Resources, utilizing the LEAP approach advocated by TNFD. While doing so, we will improve the resilience of our businesses by sustainable procurement of raw agricultural products and use water resources. The company promotes sustainable procurement of raw materials and sustainable use of water under the Action Plan, and the activities can also be mitigation measures against climate change. The company will improve the resilience of its businesses through the activities.
- In the area of containers and packaging, the company will contribute to building a society in which plastics are recycled by achieving the 50% target for the use of recycled plastic resin in PET bottles in Japan by 2027 and developing sustainable containers and packaging, while the company aims to reduce Scope 3 GHG emissions and the impact on the natural environment.
- ▶ The company participates in the following to promote holistic approaches to climate change, natural capital, and other environmental challenges and to contribute to global rulemaking of environmental issues.
- · Alliance to End Plastic Waste (joined in 2021)
- •SBTN for Nature Corporate Engagement Program (Joined in 2021 as the first company to do so in the Japanese pharmaceutical and food and beverage industries)
- Participated in the TNFD Forum from 2021. Participated in pilot testing in 2022. (TNFD Adopter registration in 2023)

Adaptation/ Mitigation	Important issue	Strategy	Progress
	Biological resources	Brewing technology that does not rely on barley Mass plant propagation technologies Support for farms to acquire certification for sustainable agriculture	·Establishment of mass plant propagation technology for hop seedlings
Adaptation			Participated in SBTN for Nature's Corporate Engagement Programme (2021) and TNFD pilot test (2022)
(Sustainable use of natural capital)	Water resources	Sharing flood knowledge Equipment and facility measures against flooding Sharing drought knowledge Development and deployment of water usage reduction technology	-Started surveys of high-risk business sites for insurance coverage, utilizing the results of simulations of natural disasters and floods (2015) -Implemented flood prevention measures and equipment measures at pharmaceutical plants that must ensure a stable supply of products (2022) -Support for tea farms to acquire certification for sustainable agriculture in Sri Lanka and continuing appropriate water conservation considering water stress (since 2013)
	Containers and packaging	•Promotion of PET-to-PET •Creation of more lightweight containers	-Joined Alliance to End Plastic Waste (2021) -Increased use of R100 PET bottles made with 100% recycled resin -Introduction of chemically recycled resin in PET bottles for alcoholic beverages (2023)
Mitigation (Minimize impact on natural capital)	Climate change	•Achieving GHG emission reduction targets based on scientific evidence •Energy transition on a profit and loss neutral basis (from 2030)	-Fine-tuned understanding the financial impact of climate change (from 2022), including analysis and evaluation of asset risks and opportunities in scenario analysis in full conformity with new TCFD guidance. Holistic disclosure of financial impact of climate change and natural capital by conducting assessments to understand natural capital dependencies, impacts, risks, and opportunities (2023) - Developed a roadmap to reduce GHG emissions by 2030 (2022). Set reduction targets and processes for Group companies and began operation - Installed large-scale solar power generation facilities in all Kirin Brewery plants (2021), Kyowa Kirin Ube Plant, and Mercian Fujisawa Plant (2023), based on the PPA model (except for the Yokohama Brewery). Achieved 100% of procured electricity from renewable energy sources at Kirin Brewery's Nagoya Plant (2020), Sendai Plant (2022), Okayama Plant, Fukuoka Plant, Kyowa Kirin's Takasaki Plant, all Lion Australia and New Zealand locations (2023), and all Château Mercian wineries (2022), and all Kirin Brewery plants and sales bases (2024) - Became the first global food and beverage company to obtain approval for an SBT Net-Zero (2022) - In addition, we are working to reduce GHG emissions throughout the value chain by considering the procurement of low-GHG-emitting rad agricultural products and materials, and raising the ratio of recycled resins used in PET bottles. Reduction plans with an emphasis on engagement, including collaborative consideration of reduction measures based on each company's reduction plan and reduction progress identified through surveys of major suppliers (2023)
	Infectious diseases	•Provision of products to address this issue	•Expansion of product lineup •Supply of materials to partner companies
	Heatstroke	·Provision of non-alcoholic beverages that prevent heatstroke	•Raising awareness of heatstroke
Business opportunity	Sustainable procurement	Accumulating knowledge and promoting regenerative agriculture that contrib- utes to climate change mitigation and adaptation	-Started development of "The Regenerative Tea Scorecard" in partnership with the Rainforest Alliance in Sri Lanka (2023)
	Development of value-add- ed products	·Climate change	·Launched Australia's first carbon-neutral alcohol-free beer, XXXX Zero (2022)

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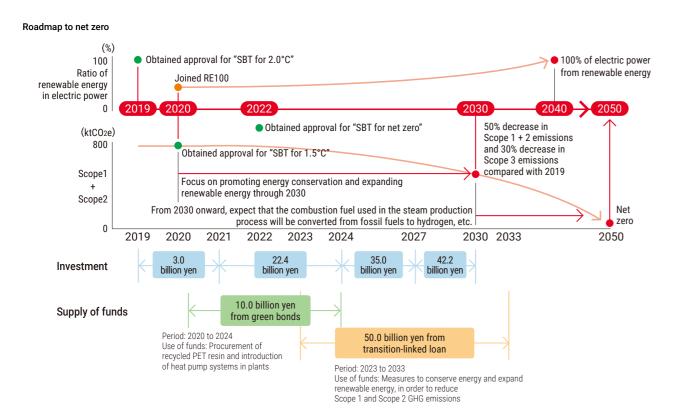
Transition Plans

The Kirin Group has formulated a roadmap, together with investment and financing plans, for achieving science-based GHG emissions reduction targets and net zero targets, with the aim of keeping the global average temperature increase 1.5°C or lower compared with pre-industrial levels. The group began operating these plans in January 2022, after they were deliberated and resolved by the Group Executive Committee. Regarding natural capital, in addition to ecosystem conservation, the group is considering developing a roadmap that includes climate change mitigation and adaptation measures as Nature-based Solutions to social issues. As for PET bottles, the group has formulated a roadmap for a 50% ratio of recycled resin use in Japan 2027 and is now working to achieve this target. Going forward, the group will continue to clarify holistic investment plans and funding measures for natural capital and climate change.

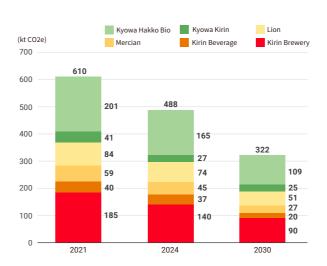
For Scope 3, the group will continue to explore and experiment with reduction measures, starting with containers and packaging and agriculture. Regarding climate change adaptation measures, the group will expand the promotion of sustainable agriculture and forestry. The group will also participate in a pilot program and lead rulemaking for an international initiative to develop a natural capital target-setting methodology and disclosure framework. The roadmap will be reviewed periodically and updated appropriately, considering scientific advances, regulations, and other factors.

Investment

Through 2030, the Kirin Group will maintain profit and loss neutrality in principle, and the merit from saving energy will offset depreciation and amortization from the investment and the procurement costs increase of renewable energy. We use NPV (Net Present Value) as an indicator for environmental investments aimed mainly at reducing GHG emissions, and the group introduced Internal Carbon Pricing (ICP; \$63/t C02e) into its framework for making investment decisions. Following green bonds (period: 2020-2024, 10.0 billion yen) issued to finance the procurement of recycled PET resin and the introduction of heat pump systems at plants, in January 2023 the group became the first food and beverage company in Japan to raise funds through a transition-linked loan (period: 2023-2033, 50.0 billion yen), which is aimed at financing energy conservation and renewable energy-related projects that will contribute to reducing Scope 1 and 2 GHG emissions. This loan is eligible for the Ministry of Economy, Trade and Industry (METI)'s FY2022 subsidy for global warming countermeasures promotion project, as well as performance- linked interest subsidies (financial support for promoting the transition towards achieving a carbon-neutral economy) under the Industrial Competitiveness Enhancement Act.

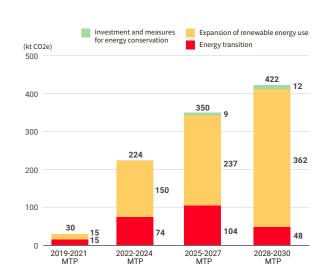


Reduction of Scope 1 and Scope 2 emissions



Investment

Operating Companies



Reduction of Scope 1 and Scope 2 emissions

As described in the "Response to Climate Change" part of the "Approach to Environmental Issues" section, the Kirin Group will take a three-pronged approach to reducing Scope 1 and Scope 2 emissions, namely: "promotion of energy conservation," "expansion of renewable energy," and "energy transition."

From 2030 onward, combustion fuel in the steam production process will need to be converted from fossil fuels to hydrogen, etc. that do not emit GHGs in order to achieve net zero emissions by 2050. The group will be involved in policy advocacy and rulemaking, emphasizing the "additionality" of creating and increasing new renewable energy sources in the world, and the "ethics" of energy use from the perspective of environmental impact and human rights.

Reduction of Scope 3 emissions

Of the categories in the GHG Protocol, the group will focus our efforts on Category 1 (purchased goods and services), which accounts for about 60% of the Kirin Group's Scope 3 emissions, followed by Category 4 (upstream transportation and distribution) and Category 9 (downstream transportation and distribution) and work toward "encouragement of reduction at business partners," as well as the "reduction of its own independent emissions."

In a pilot test, Lion worked with suppliers and customers to pool actual GHG emissions to a third party without mutual disclosure, and demonstrated that the company could raise its Scope 3 reduction targets. This approach was published by the Australian "Climate Leaders Coalition" as the "Scope 3 Roadmap" and presented by the CEO of Lion at COP27 held in 2022.

Encouragement of reduction at business partners	Plan to prioritize engagement as we reduce emissions, based on each company's reduction plans and quantitative and qualitative progress identified through surveys of major suppliers	
Reduction of our own independent emissions	Reduce the weight of containers and packaging and increase the use of recycled PET resin, leveraging the strength of our in-house research institute to develop our own containers and packaging	

Metrics and targets*6

Response	Item	Target	Achievements (End of 2022)
Targets	GHG emissions from the entire value chain (relative value)	Net-zero (2050)	4,876 kt CO2e
	Scope1+2	-50% (2030 compared to 2019)	-18%
related to climate change	Scope 3 *7	-30% (2030 compared to 2019)	-1%
	Ratio of renewable energy purchased electric power	100% (2040)	27%
	Number of large tea farms in Sri Lanka that received training for the acquisition of certification	Cumulative total of 15 large farms (2022 to 2024)	4 large farms
Targets related to natural capital	Number of small tea farms in Sri Lanka that received training for the acquisition of certification	Cumulative total of 5,350 small farms (2022 to 2024)	9 small farms
·	Ratio of certified palm oil used (Japan)	Maintain 100%	100%
	Water efficiency in Lion	2.4 kl/kl (2025)	3.6kl/kl
Targets	Percentage of recycled resins used in PET bottles (Japan)	50% (2027)	8.3%
related to containers and packaging	Percentage of FSC-certified paper used for paper containers in the domestic beverage business	Maintain 100%	100%

^{*6} As of the end of 2022

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^{*7} Used IDEA (Inventory Database for Environment Analysis) version 2.3 and version 3.1 developed by The Research Institute of Science for Safety and Sustainability to calculate Scope 3 emissions for each fiscal year