

Environmental Data

Volume of Energy Input and Greenhouse Gas Emissions

		FY2019	FY2020	FY2021	FY2022	
Volume of Energy Input [Thousand TJ]	Japan and Overseas	3.0	3.0	3.0	2.7	
	Per unit of sales [TJ/hundred million yen]	—	—	—	0.96	
Scope 1 and 2 energy-related CO ₂ emissions [Scope 1 + 2] [Thousand tCO ₂]	Scope 1 + Scope 2	Japan and Overseas	143	126	125	126
		Japan	110	106	105	102
		Overseas	33	20	21	24
	Scope 1	Japan and Overseas	32	32	33	33
		Japan	26	26	27	27
		Overseas	6	5	6	7
	Scope 2	Japan and Overseas	111	95	92	93
		Japan	84	80	78	75
		Overseas	27	15	15	18
	Reduction rate [%]	Japan and Overseas	Baseline	-12	-13	-12
	Per unit of sales [tCO ₂ /hundred million yen]	Japan and Overseas	—	—	—	45
	Calculated leakage of CFCs [Thousand tCO ₂]	LOTTE CO., LTD.	2.6	1.2	1.5	1.9

Japan: LOTTE CO., LTD. and its Group companies in Japan (Mary Chocolate Co., Ltd., Dari K Co., Ltd., Ginza Cozy Corner Co., Ltd.)

Overseas: Major Group companies overseas (THAI LOTTE CO., LTD., LOTTE VIETNAM CO., LTD., PT. LOTTE INDONESIA, and LOTTE Wedel sp. z o.o.)

The previously provided information has been updated due to changes in Group companies.

Information on the method, etc. used for calculating energy-related CO₂ emissions is provided on page 23.

		FY2019	FY2020	FY2021	FY2022	
Greenhouse Gas Emissions [Scope 3] [Thousand tCO ₂]	Japan and Overseas	—	912	933	1,013	
	Japan	Total (Japan)	817	734	733	775
		1. Purchased goods and services	541	504	510	542
		2. Capital goods	72	28	22	20
		3. Fuel-and energy-related activities (not included in Scope 1 or 2)	17	17	17	18
		4. Upstream transportation and distribution	56	55	59	59
		5. Waste generated in operations	1	1	1	1
		6. Business travel	0.4	0.4	0.4	0.5
		7. Employee commuting	2	2	2	2
		8. Upstream leased assets	Out of scope as not applicable			
		9. Downstream transportation and distribution	37	37	36	44
		10. Processing of sold products	Out of scope as not applicable			
		11. Use of sold products	Out of scope as not applicable			
		12. End-of-life treatment of sold products	90	89	86	88
		13. Downstream leased assets	Out of scope as not applicable			
		14. Franchises	Out of scope as not applicable			
15. Investments	Out of scope as not applicable					
Overseas	Total (Overseas)	—	178	201	239	

Japan: LOTTE CO., LTD. and its major Group companies in Japan (Mary Chocolate Co., Ltd. and Ginza Cozy Corner Co., Ltd.*)

Overseas: Major Group companies overseas (THAI LOTTE CO., LTD., LOTTE VIETNAM CO., LTD., PT. LOTTE INDONESIA, and LOTTE Wedel sp. z o.o.)

* Ginza Cozy Corner Co., Ltd. is included in the scope of tabulation from the results for FY2022.

The previously provided information has been updated due to an error.

Information on the method, etc. used for calculating greenhouse gas emissions is provided on page 23.

● Preventing Pollution

		FY2019	FY2020	FY2021	FY2022
BOD pollution load [t]*	Factories of LOTTE CO., LTD.	—	—	2	3
COD pollution load [t]*		—	—	13	11
NOx emissions [t]		—	—	—	6
SOx emissions [t]		—	—	—	0

*Estimated value for wastewater discharged into rivers

● Circular Economy

		FY2019	FY2020	FY2021	FY2022
Waste generated by production processes [Thousand t]	Factories in Japan	11.5	12.5	11.9	14.3
Recycling rate of waste generated by production processes [%]		99.2	96.5	96.8	96.5
Final disposal volume (landfill volume) [Thousand t]		—	—	—	0.002
Food Loss and Waste (FLW) generated* [Thousand t]	Japan and Overseas	4.1	3.8	3.6	3.3
Per-unit volume reduction rate* [%]		Baseline	-7	-13	-20
Weight of products sold [Thousand t]		—	459	469	486

Factories in Japan: Factories of LOTTE CO., LTD. and its major Group companies in Japan

Japan: LOTTE CO., LTD. and its major Group companies in Japan

Overseas: Major Group companies overseas

*The previously provided information has been updated due to changes in Group companies.

● Water Resources


		FY2019	FY2020	FY2021	FY2022
Water withdrawal [Million t]	Japan + Overseas factories	2.5	2.6	2.5	2.8
	Japan	2.4	2.4	2.3	2.5
	In-city use	0.3	0.3	0.3	0.4
	Factory use	1.1	1.2	1.1	1.2
	Well water	0.9	0.9	0.9	0.9
	Overseas factories	0.2	0.2	0.2	0.3
	In-city use	0.1	0.1	0.1	0.1
	Factory use	0.1	0.1	0.2	0.2
	Well water	0.0	0.0	0.0	0.0
Water discharge [Million t]	Japan + Overseas factories	2.2	2.1	2.2	2.2
	Japan	2.0	1.9	1.9	1.9
	Sewerage	0.3	0.3	0.3	0.4
	Rivers	1.7	1.6	1.6	1.7
	Seas	0.0	0.0	0.0	0.0
	Groundwater	0.0	0.0	0.0	0.0
	Overseas factories	0.2	0.2	0.2	0.2
	Sewerage	0.1	0.1	0.1	0.1
	Rivers	0.1	0.1	0.1	0.1
Seas	0.0	0.0	0.0	0.0	
Groundwater	0.0	0.0	0.0	0.0	

Japan: All sites of LOTTE CO., LTD. and factories of its major Group companies in Japan (Mary Chocolate Co., Ltd. and Ginza Cozy Corner Co., Ltd.)

Overseas factories: Factories of major Group companies overseas

◆ Independent Practitioner's Assurance of Greenhouse Gas Emissions

Energy-related CO₂ emissions (Scope 1 and 2) and greenhouse gas emissions (Scope 3) for FY2022 indicated with on page 23 in the Japanese version of the Databook, have received the independent practitioner's assurance by Deloitte Tohmatsu Sustainability Co., Ltd.



デロイト トーマツ
(TRANSLATION)

Independent Practitioner's Assurance Report

August 25, 2023

Mr. Eiichi Gochou,
President / Representative Director,
LOTTE CO., LTD.

Tomoharu Hase
Representative Director
Deloitte Tohmatsu Sustainability Co., Ltd.
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We have undertaken a limited assurance engagement of the energy-related CO₂ emissions (Scope 1 and Scope 2) and greenhouse gas emissions (Scope 3) indicated with for the year ended March 31, 2023 (the "Greenhouse Gas Information") included in the "LOTTE CO., LTD. Sustainability Databook 2023" (the "Report") of LOTTE CO., LTD. (the "Company").

The Company's Responsibility
The Company is responsible for the preparation of the Greenhouse Gas Information in accordance with the calculation and reporting standard adopted by the Company (indicated with the Greenhouse Gas Information included in the Report). Greenhouse gas quantification is subject to inherent uncertainty for reasons such as incomplete scientific knowledge used to determine emissions factors and numerical data needed to combine emissions of different gases.

Our Independence and Quality Control
We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. We apply International Standard on Quality Control 1, *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance and Related Services Engagements*, and accordingly 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.

Our Responsibility
Our responsibility is to express a limited assurance conclusion on the Greenhouse Gas Information based on the procedures we have performed and the evidence we have obtained. We conducted our limited assurance engagement in accordance with the International Standard on Assurance Engagements ("ISAE") 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the International Auditing and Assurance Standards Board ("IAASB"), ISAE 3410, *Assurance Engagements on Greenhouse Gas Statements*, issued by the IAASB and the *Practical Guideline for the Assurance of Sustainability Information*, issued by the Japanese Association of Assurance Organizations for Sustainability Information. The procedures we performed were based on our professional judgment and included inquiries, observation of processes performed, inspection of documents, analytical procedures, evaluating the appropriateness of quantification methods and reporting policies, and agreeing or reconciling with underlying records. These procedures also included the following:

- Evaluating whether the Company's methods for estimates are appropriate and had been consistently applied. However, our procedures did not include testing the data on which the estimates are based or reperforming the estimates.
- Performing interviews of responsible persons and inspecting documentary evidence to assess the completeness of the data, data collection methods, source data and relevant assumptions applicable to the sites.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement.

Limited Assurance Conclusion
Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Greenhouse Gas Information is not prepared, in all material respects, in accordance with the calculation and reporting standard adopted by the Company.
The above represents a translation, for convenience only, of the original Independent Practitioner's Assurance report issued in the Japanese language.

Member of
Deloitte Touche Tohmatsu Limited