

09 Environmental Data

Q Volume of Energy Input and GHG Emissions

			FY2019 (Baseline)	FY2022	FY2023	FY2024	
Volume of energy input** [Thousand TJ]		Japan and Overseas	3.0	3.0	3.1	2.7	
	Per unit of sales [TJ/hundred million yen]		—	1.05	0.99	0.82	
Scope 1 and 2 energy-related CO ₂ emissions (Scope 1,2) [Thousand tCO ₂]		Japan and Overseas	146	126	120	120	
		Japan	113	102	96	96	
		Overseas	33	24	25	24	
	Reduction rate [%]		—	−13	−17	−18	
	Per unit of sales [tCO ₂ /hundred million yen]	Japan and Overseas	—	45	39	36	
	Scope 1	Japan and Overseas	34	34	32	31	
		Japan	28	27	26	25	
		Overseas	6	7	7	7	
	Scope 2	Japan and Overseas	111	93	88	88	
		Japan	84	75	70	72	
		Overseas	27	17	18	17	
	Calculated leakage of HCFCs and HFCs [Thousand tCO ₂]		LOTTE CO., LTD.	2.6	1.9	0.6	1.1

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.)

Information on the method, etc. used for calculating energy-related CO₂ emissions is provided on page 21.

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

			FY2019 (Baseline)	FY2022	FY2023	FY2024
GHG Emissions (Scope 3) [thousand tCO ₂]*2	Japan	Japan and Overseas	—	1,014	1,018	991
		1. Purchased goods and services	817	775	774	759
		2. Capital goods	541	542	577	551
		3. Fuel and energy-related activities (not included in Scope 1 or 2)	72	20	24	29
		4. Upstream transportation and distribution	17	19	19	20
		5. Waste generated in operations	56	59	62	73
		6. Business travel	1	1	1	1
		7. Employee commuting	0.4	0.5	0.5	0.5
		8. Upstream leased assets	2	2	2	2
		9. Downstream transportation and distribution	Out of scope as not applicable			
		10. Processing of sold products	37	43	46	47
		11. Use of sold products	Out of scope as not applicable			
		12. End-of-life treatment of sold products*3	Out of scope as not applicable			
		13. Downstream leased assets	90	88	43	35
		14. Franchises	Out of scope as not applicable			
		15. Investments	Out of scope as not applicable			
	Overseas		—	239	244	232

Japan: LOTTE CO., LTD. and its major Group companies in Japan (Mary Chocolate Co., Ltd. and Ginza Cozy Corner Co., Ltd.*2)
 Overseas: Major Group companies overseas (THAI LOTTE CO., LTD., LOTTE VIETNAM CO., LTD., PT. LOTTE INDONESIA, and LOTTE Wedel sp. z o.o.)

*2 Ginza Cozy Corner Co., Ltd. is included in the scope of tabulation as of the results for FY2022. Information on the method, etc. used for calculating GHG emissions is provided on page 21 and 22.

*3 Recycling rates of used paper and cardboard have been reflected in calculations for Japan figures since FY2023.

Q Preventing Pollution

		FY2019 (Baseline)	FY2022	FY2023	FY2024
BOD pollution load [t]*	Factories of LOTTE CO., LTD.	—	3	3	5
COD pollution load [t]*		—	11	18	19
NOx emissions [t]		—	6	6	4
SOx emissions [t]		—	0	0	0

* Estimated value for wastewater discharged into rivers

Q Circular Economy

		FY2019 (Baseline)	FY2022	FY2023	FY2024
Waste generated by production processes [Thousand t]	Factories in Japan	11.5	14.3	14.9	15.3
Recycling rate of waste generated by production processes [%]		99.2	96.5	94.5	96.9
Final disposal volume (landfill volume) [Thousand t]		—	0.002	0.002	0.001
Food Loss and Waste (FLW) generated [Thousand t]*	Japan and Overseas	4.1	3.6	3.4	3.0
Weight of products sold [Thousand t]		—	—15	—21	—31
		—	474	484	459
		275	292	300	300
		206	219	226	225
		69	72	75	74
		49	52	55	56
		15	15	16	15
		5	5	4	3

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 an error.

Q Water Resources

			FY2019 (Baseline)	FY2022	FY2023	FY2024
Water withdrawal [Million t]	Japan + Overseas factories		2.6	2.8	2.9	2.7
			2.4	2.5	2.6	2.5
		Japan	In-city use	0.3	0.4	0.4
			Industrial water	1.1	1.2	1.1
			Well water	0.9	0.9	0.9
		Overseas factories		0.2	0.3	0.3
			In-city use	0.1	0.1	0.1
			Industrial water	0.1	0.2	0.2
			Well water	0.0	0.0	0.0
Water discharge [Million t]	Japan + Overseas factories		2.2	2.3	2.3	2.3
			2.0	2.1	2.1	2.1
		Japan	Sewerage	0.3	0.4	0.4
			Rivers	1.7	1.7	1.7
			Seas	0.0	0.0	0.0
			Groundwater	0.0	0.0	0.0
		Overseas factories		0.2	0.2	0.3
			Sewerage	0.1	0.1	0.1
			Rivers	0.1	0.1	0.1
			Seas	0.0	0.0	0.0
			Groundwater	0.0	0.0	0.0

Japan: All sites of LOTTE CO., LTD. and factories of its major Group companies in Japan

Overseas factories: Factories of major Group companies overseas