ESG Databook 2024
of T.Hasegawa Group

Coverage rate

	Unit	FY2021	FY2022	FY2023
Non-consolidated coverage rate*	%	67.0	62.8	61.2
Consolidated coverage rate	%	100.0	100.0	100.0

*Non-consolidated sales as a percentage of consolidated sales.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Procurement-related data

Supply chain management

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Rate of conducting supplier assessments (Percentage based on procurement value)	%	Non-consolidated basis	Fiscal year-end	–	60	70

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Environmental impact of business activities: FY2023)

INPUT

Energy

Electricity	36,381	GJ
Fuel	7,089	GJ
Water	21,303	㎥

Raw materials

Flavor and fragrance raw materials	1,875 t
Natural raw materials	11,071 t
Supplemental raw materials	5,767 t
Packaging materials	**2,118 t**

Energy

Electricity	154,313	GJ
Fuel	131,366	GJ
Water	455,167	㎥

Energy

Suppliers

T.Hasegawa R&D center/Head office

(including branches and sales offices)

Manufacturing

T.Hasegawa
Fukaya Facility
Itakura Facility

Products 13,519 t

HBS*
Fine Foods Facility
Products 5,830 t

Distribution (Outsourcing)

Customers

OUTPUT

Air

CO_2 (Scopes 1+2)	1,617 t
NO_X	0.23 t
SO_X	0.0 t

Waste

104 t

Wastewater

16,140 ㎥

BOD	0.44 t
SS	1.34 t

Air

CO_2 (Scopes 1+2)	14,430 t
NO_X	1.54 t
SO_X	0.0 t

Waste

4,677 t

Landfill waste 0.0 t

Wastewater

378,275 ㎥

BOD	0.89 t
SS	0.90 t

Exhaust gas

Note: Each fiscal year listed in the ESG Databook 2023 refers to a year from October 1 of the previous year to the end of September of the year in question unless otherwise noted.
*HBS: An abbreviation of T.HASEGAWA BUSINESS SERVICE CO., LTD.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Environmental accounting)

Environmental protection cost and environmental protection effect | Calculation table

(Unit: 1,000 yen)

Environmental protection costs (Non-consolidated basis)

Category	Main initiative	Investment	Cost
(1) Costs within the business area		75,752	525,362
1 Pollution prevention costs	Increase in deodorizing equipment, and maintenance of wastewater treatment facilities Proper operation of environmental facilities (wastewater, air, odors, etc.)	1,957	213,729
2 Global environmental protection costs	Energy conservation measures	73,795	64,736
3 Resource recycling costs	Promotion of effective use of waste products	0	246,897
(2) Upstream/downstream costs		(Note)	(Note)
(3) Management activity costs	Committee activities, ISO 14001 management	16,500	83,929
(4) R&D costs		(Note)	(Note)
(5) Social activity costs		–	–
(6) Environment damage response costs		–	–
Total		92,252	609,291

Note: Upstream/downstream costs and R&D costs are omitted because they are difficult to ascertain accurately.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Environmental accounting)

Environmental protection cost and environmental protection effect | Calculation table

Environmental protection effect					
Details of the effect		Indicators representing the environmental protection effect			
		Indicator category		Indicator value (YoY change)	
				Non-consolidated basis	Consolidated basis in Japan
(1) Effects corresponding to the costs within the business area	(i) Effects on resources put in business activities	Energy		-13,865 GJ	-14,065 GJ
		GHG emissions (Scopes 1 and 2)		-1,135 t	-1,213 t
		Water		-43,141 ㎥	-48,630 ㎥
	(ii) Effects on environmental impact and waste products emitted from business activities	Atmospheric emissions Water region emissions		Self-imposed values were set to manage emissions	
		Waste and other emissions	Total waste volume (Note)*	-828 t	-1,110 t
			Effective utilization rate	95.7 %	96.0 %
			Landfill waste volume	0 t	0 t
(2) Effects corresponding to upstream/downstream costs	Effects on goods and services produced from business activities	–		(Note)**	
(3) Other environmental protection effects	Effects on transport, etc.	–		(Note)**	

Note:* In FY2022, the calculation was changed to count only waste, excluding valuables.
Note:** Upstream/downstream costs and R&D costs are omitted because they are difficult to ascertain accurately.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Energy use and GHG emissions)

Energy use and GHG emissions (Non-consolidated basis)

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Production volume	t	Non-consolidated basis	Fiscal year	13,472	14,048	13,519	
Energy consumption	GJ	Non-consolidated basis	Fiscal year	299,602	298,230	284,366	・Information source of the conversion factor used: Conversion factor indicated in the Act on Rationalizing Energy Use ・Limited to energy consumption within the organization.
Of which fuel	GJ	Non-consolidated basis	Fiscal year	136,437	125,078	117,647	・Information source of the conversion factor used: Conversion factor indicated in the Act on Rationalizing Energy Use ・Limited to energy consumption within the organization.
Of which electricity	GJ	Non-consolidated basis	Fiscal year	163,165	173,153	166,719	・Information source of the conversion factor used: Conversion factor indicated in the Act on Rationalizing Energy Use ・Limited to energy consumption within the organization.
Energy consumption YoY rate reduction	%	Non-consolidated basis	Fiscal year	-1.4	-0.5	-4.6	
Energy consumption rate per unit	Crude oil equivalent kl/ t	Non-consolidated basis	Fiscal year	0.572	0.548	0.543	・Calculated using the production volume that is closely related to energy consumption ・Energy consumption (Crude oil equivalent 1 kl) per 1 t of production and energy used within the organization are used ・Energy categories: Fuel (e.g., city gas, LPG) and electricity
Total GHG emissions (Scopes 1 and 2)	t	Non-consolidated basis	Fiscal year	14,905	14,665	13,529	・Target : 46% reduction compared to the FY2013 level (18,793 t)
Of which scope 1 emissions	t	Non-consolidated basis	Fiscal year	7,442	6,873	6,477	・Gas used for calculation: CO_2 ・Information source of emission factor used: GHG Emissions Calculations and Reporting Manual
Emissions per unit Scope 1	t / t	Non-consolidated basis	Fiscal year	0.552	0.489	0.479	・Calculated based on the production volume closely related to CO_2 emissions
Of which scope 2 emissions Market-base	t	Non-consolidated basis	Fiscal year	7,463	7,792	7,052	・Gas used for calculation: CO_2 ・Information source of emission factor used: Electricity Operator-Specific Emission Factor (for calculating the GHG emissions of specific emitters)
Of which scope 2 emissions Location-base	t	Non-consolidated basis	Fiscal year	7,251	7,680	7,377	・Gas used for calculation: CO_2 ・Information source of emission factor used: Electricity Operator-Specific Emission Factor (for calculating the GHG emissions of specific emitters)
Emissions per unit Scope 2	t / t	Non-consolidated basis	Fiscal year	0.554	0.555	0.522	・Calculated based on the production volume closely related to CO_2 emissions ・CO_2 emissions per 1 t of production volume (Note: Scope 2 market-base is used)

Note: The data related to GHG emissions for FY2021 and Scope 2 location-based emissions for FY2022 is different from the figures in the ESG Databook, which is a result of recalculation.
Note: For GHG emissions for FY2021 and onward, a third-party verification was conducted. For details, refer to the end of this Databook.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Energy use and GHG emissions)

Energy use and GHG emissions (Non-consolidated basis)

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Scope 3 total emissions	t	Non-consolidated basis	Fiscal year	115,143	135,029	144,131	
Category 1	t	Non-consolidated basis	Fiscal year	104,454	124,296	129,654	・National Institute for Environmental Studies: Global environmental impact intensity based on purchaser price ・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain ・IDEAv2
Category 2	t	Non-consolidated basis	Fiscal year	4,381	3,527	7,355	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 3	t	Non-consolidated basis	Fiscal year	3,099	3,027	2,880	・IDEAv2
Category 4	t	Non-consolidated basis	Fiscal year	954	1,801	1,648	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain ・IDEAv2
Category 5	t	Non-consolidated basis	Fiscal year	795	846	721	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain ・IDEAv2
Category 6	t	Non-consolidated basis	Fiscal year	483	585	938	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 7	t	Non-consolidated basis	Fiscal year	918	888	875	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 8	t	–	–	N/A	N/A	N/A	
Category 9	t	–	–	N/A	N/A	N/A	
Category 10	t	–	–	N/A	N/A	N/A	
Category 11	t	–	–	N/A	N/A	N/A	
Category 12	t	Non-consolidated basis	Fiscal year	59	60	61	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 13	t	–	–	N/A	N/A	N/A	
Category 14	t	–	–	N/A	N/A	N/A	
Category 15	t	–	–	N/A	N/A	N/A	

Note: For categories indicated as N/A, the calculation method is being considered or they are not applicable.
Note: For GHG emissions for FY2021 and onward, a third-party verification was conducted. For details, refer to the end of this Databook.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Energy use and GHG emissions)

Energy use and GHG emissions (Consolidated basis in Japan)

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Production volume	t	Consolidated basis in Japan	Fiscal year	19,516	19,967	19,349	
Energy consumption	GJ	Consolidated basis in Japan	Fiscal year	344,243	343,214	329,149	・Information source of the conversion factor used: Conversion factor indicated in the Act on Rationalizing Energy Use ・Limited to energy consumption within the organization.
Of which fuel	GJ	Consolidated basis in Japan	Fiscal year	158,681	146,805	138,455	・Information source of the conversion factor used: Conversion factor indicated in the Act on Rationalizing Energy Use ・Limited to energy consumption within the organization.
Of which electricity	GJ	Consolidated basis in Japan	Fiscal year	185,562	196,409	190,694	・Information source of the conversion factor used: Conversion factor indicated in the Act on Rationalizing Energy Use ・Limited to energy consumption within the organization.
Energy consumption YoY rate reduction	%	Consolidated basis in Japan	Fiscal year	-2.2	-0.3	-4.1	
Energy consumption rate per unit	Crude oil equivalent kl/ t	Consolidated basis in Japan	Fiscal year	0.455	0.443	0.439	・Calculated using the production volume that is closely related to energy consumption ・Energy consumption (Crude oil equivalent 1 kl) per 1 t of production and energy used within the organization are used ・Energy categories: Fuel (e.g., city gas, LPG) and electricity
Total GHG emissions (Scopes 1 and 2)	t	Consolidated basis in Japan	Fiscal year	17,447	17,260	16,047	
Of which scope 1 emissions	t	Consolidated basis in Japan	Fiscal year	8,968	8,379	7,920	・Gas used for calculation: CO_2 ・Information source of emission factor used: GHG Emissions Calculations and Reporting Manual
Emissions per unit Scope 1	t / t	Consolidated basis in Japan	Fiscal year	0.460	0.420	0.409	・Calculated based on the production volume closely related to CO_2 emissions
Of which scope 2 emissions Market-base	t	Consolidated basis in Japan	Fiscal year	8,479	8,881	8,127	・Gas used for calculation: CO_2 ・Information source of emission factor used: Electricity Operator-Specific Emission Factor (for calculating the GHG emissions of specific emitters)
Of which scope 2 emissions Location-base	t	Consolidated basis in Japan	Fiscal year	8,244	8,717	8,444	・Gas used for calculation: CO_2 ・Information source of emission factor used: Electricity Operator-Specific Emission Factor (for calculating the GHG emissions of specific emitters)
Emissions per unit Scope 2	t / t	Consolidated basis in Japan	Fiscal year	0.434	0.445	0.420	・Calculated based on the production volume closely related to CO_2 emissions ・CO_2 emissions per 1 t of production volume (Note: Scope 2 market-base is used)

Note: As with the non-consolidated figures, the data for Scope 2 location-based emissions for FY2022 is different from the figures in the ESG Databook 2023, which is a result of recalculation.

Note: From FY2022 onward, GHG emissions are calculated on a consolidated basis in Japan and verified by a third party. For details, refer to the end of this Databook.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Energy use and GHG emissions)

Energy use and GHG emissions (Consolidated basis in Japan)

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Scope 3 total emissions	t	Consolidated basis in Japan	Fiscal year	–	136,693	145,681	
Category 1	t	Consolidated basis in Japan	Fiscal year	–	124,796	130,152	・National Institute for Environmental Studies: Global environmental impact intensity based on purchaser price ・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain ・IDEAv2
Category 2	t	Consolidated basis in Japan	Fiscal year	–	3,527	7,358	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 3	t	Consolidated basis in Japan	Fiscal year	–	3,436	3,284	・IDEAv2
Category 4	t	Consolidated basis in Japan	Fiscal year	–	2,344	2,168	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain ・IDEAv2
Category 5	t	Consolidated basis in Japan	Fiscal year	–	968	763	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain ・IDEAv2
Category 6	t	Consolidated basis in Japan	Fiscal year	–	596	949	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 7	t	Consolidated basis in Japan	Fiscal year	–	962	943	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 8	t	–	–	–	N/A	N/A	
Category 9	t	–	–	–	N/A	N/A	
Category 10	t	–	–	–	N/A	N/A	
Category 11	t	–	–	–	N/A	N/A	
Category 12	t	Consolidated basis in Japan	Fiscal year	–	63	63	・The Ministry of the Environment emission unit value database for calculating the GHG emissions of organizations throughout the supply chain
Category 13	t	–	–	–	N/A	N/A	
Category 14	t	–	–	–	N/A	N/A	
Category 15	t	–	–	–	N/A	N/A	

Note: For categories indicated as N/A, the calculation method is being considered or they are not applicable.

Note: From FY2022 onward, GHG emissions are calculated on a consolidated basis in Japan and verified by a third party. For details, refer to the end of this Databook.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Air pollution and water resources)

Air pollution and water resources (Non-consolidated basis)

		Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Air pollutants	SOx	t	Non-consolidated basis	Fiscal year	0.00	0.00	0.00	
	NOx	t	Non-consolidated basis	Fiscal year	1.83	1.77	1.68	
Total wastewater volume		㎥	Non-consolidated basis	Fiscal year	348,838	345,019	307,318	All freshwater
Of which surface water		㎥	Non-consolidated basis	Fiscal year	335,207	328,257	291,178	At each production site, water purified to satisfy the wastewater standard prescribed in laws, ordinances, etc. of the area, where the site is located is discharged into the river.
Of which third parties (Local government's treatment facility, etc.)		㎥	Non-consolidated basis	Fiscal year	13,631	16,762	16,140	
Water quality	BOD	kg	Non-consolidated basis	Fiscal year	1,678	1,236	838	Tertiary treated wastewater
					770	990	442	Secondary treated wastewater
	SS	kg	Non-consolidated basis	Fiscal year	1,559	745	808	Tertiary treated wastewater
					1,824	1,968	1,342	Secondary treated wastewater
Total water used		㎥	Non-consolidated basis	Fiscal year	441,691	436,169	393,028	Total water used refers to the amount of water withdrawn. Value listed in the meter-reading slip and water bill. The Production Division collects data from the measured water consumption.
Of which tap water		㎥	Non-consolidated basis	Fiscal year	156,748	155,629	148,540	
Of which commercial-use water		㎥	Non-consolidated basis	Fiscal year	125,918	129,433	119,503	
Of which ground water		㎥	Non-consolidated basis	Fiscal year	159,025	151,107	124,985	
Total water consumption		㎥	Non-consolidated basis	Fiscal year	92,853	91,150	85,710	Total water consumption = Total water used - Total wastewater volume

Note: NOx is an estimated value. Figures differ from previously disclosed data due to recalculation.
Note: The amount of water used in FY2021 is different from the value in the ESG Databook 2022, which is a result of recalculating related data.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Air pollution and water resources)

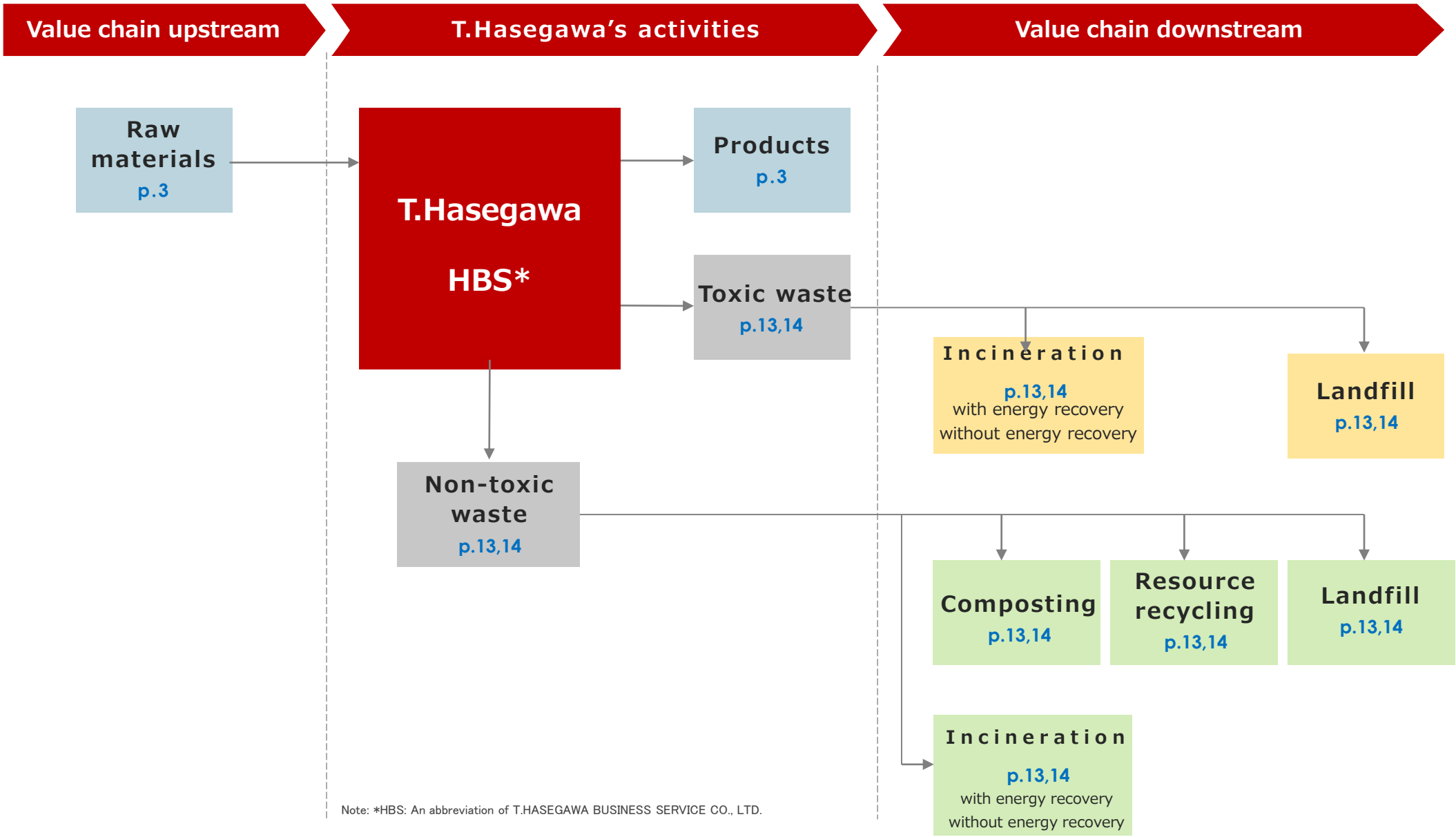
Air pollution and water resources (Consolidated basis in Japan)

		Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Air pollutants	SOx	t	Consolidated basis in Japan	Fiscal year	0.04	0.04	0.04	
	NOx	t	Consolidated basis in Japan	Fiscal year	1.91	1.84	1.77	
Total wastewater volume		㎥	Consolidated basis in Japan	Fiscal year	435,292	434,328	394,415	All freshwater
Of which surface water		㎥	Consolidated basis in Japan	Fiscal year	421,661	417,566	378,275	At each production site, water purified to satisfy the wastewater standard prescribed in laws, ordinances, etc. of the area, where the site is located is discharged into the river.
Of which third parties (Local government's treatment facility, etc.)		㎥	Consolidated basis in Japan	Fiscal year	13,631	16,762	16,140	
Water quality	BOD	kg	Consolidated basis in Japan	Fiscal year	1,678	1,236	889	Tertiary treated wastewater
			Consolidated basis in Japan		770	990	442	Secondary treated wastewater
	SS	kg	Consolidated basis in Japan	Fiscal year	1,659	840	903	Tertiary treated wastewater
			Consolidated basis in Japan		1,824	1,968	1,342	Secondary treated wastewater
Total water used		㎥	Consolidated basis in Japan	Fiscal year	525,551	525,100	476,470	Total water used refers to the amount of water withdrawn. Value listed in the meter-reading slip and water bill. The Production Division collects data from the measured water consumption.
Of which tap water		㎥	Consolidated basis in Japan	Fiscal year	221,141	220,989	212,082	
Of which commercial-use water		㎥	Consolidated basis in Japan	Fiscal year	145,385	153,004	139,403	
Of which ground water		㎥	Consolidated basis in Japan	Fiscal year	159,025	151,107	124,985	
Total water consumption		㎥	Consolidated basis in Japan	Fiscal year	90,259	90,772	82,055	Total water consumption = Total water used - Total wastewater volume

Note: NOx is an estimated value. Figures differ from previously disclosed data due to recalculation.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Outline of waste generated through the value chain)



Note: *HBS: An abbreviation of T.HASEGAWA BUSINESS SERVICE CO., LTD.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Waste)

Waste (Non-consolidated basis)

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Toxic waste volume	t	Non-consolidated basis	Fiscal year	0.5	3.1	4.3	Slate tiles, reagents, etc.
Thermal use (with energy recovery)	t	Non-consolidated basis	Fiscal year	0.0	0.0	3.9	
Thermal use (without energy recovery)	t	Non-consolidated basis	Fiscal year	0.3	3.1	0.5	
Landfill	t	Non-consolidated basis	Fiscal year	0.2	0.0	0.0	
Non-toxic waste volume	t	Non-consolidated basis	Fiscal year	5,993.0	5,307.8	4,478.8	Plant residue, wastewater sludge, waste oil, waste metal, corrugated cardboard, paper, etc.
Resource recycling	t	Non-consolidated basis	Fiscal year	1,072.6	233.9	297.6	
Compost	t	Non-consolidated basis	Fiscal year	4,069.7	4,245.5	3,376.1	
Thermal use (with energy recovery)	t	Non-consolidated basis	Fiscal year	707.4	642.7	612.4	
Thermal use (without energy recovery)	t	Non-consolidated basis	Fiscal year	143.2	185.7	192.7	
Landfill	t	Non-consolidated basis	Fiscal year	0.0	0.0	0.0	
Total waste volume generated	t	Non-consolidated basis	Fiscal year	5,993.5	5,310.9	4,483.1	
Total volume effectively used	t	Non-consolidated basis	Fiscal year	5,849.7	5,122.1	4,289.9	
Effective utilization rate	%	Non-consolidated basis	Fiscal year	97.6	96.4	95.7	
Landfill waste	t	Non-consolidated basis	Fiscal year	0.2	0.0	0.0	

Note: The data related to waste for FY2021 is different from previously disclosed data, which is a result of recalculation.
Note: In FY2022, the calculation was changed to count only waste, excluding valuables.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Waste)

Waste (Consolidated basis in Japan)

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, references, etc.)
Toxic waste volume	t	Consolidated basis in Japan	Fiscal year	0.5	3.1	4.3	Slate tiles, reagents, etc.
Thermal use (with energy recovery)	t	Consolidated basis in Japan	Fiscal year	0.0	0.0	3.9	
Thermal use (without energy recovery)	t	Consolidated basis in Japan	Fiscal year	0.3	3.1	0.5	
Landfill	t	Consolidated basis in Japan	Fiscal year	0.2	0.0	0.0	
Non-toxic waste volume	t	Consolidated basis in Japan	Fiscal year	6,531.4	5,888.7	4,777.2	Plant residue, wastewater sludge, waste oil, waste metal, corrugated cardboard, paper, etc.
Resource recycling	t	Consolidated basis in Japan	Fiscal year	1,314.0	458.1	324.8	
Compost	t	Consolidated basis in Japan	Fiscal year	4,342.2	4,575.1	3,616.1	
Thermal use (with energy recovery)	t	Consolidated basis in Japan	Fiscal year	707.4	642.7	643.5	
Thermal use (without energy recovery)	t	Consolidated basis in Japan	Fiscal year	167.8	212.8	192.7	
Landfill	t	Consolidated basis in Japan	Fiscal year	0.0	0.0	0.0	
Total waste volume generated	t	Consolidated basis in Japan	Fiscal year	6,531.9	5,891.8	4,781.5	
Total volume effectively used	t	Consolidated basis in Japan	Fiscal year	6,363.6	5,675.9	4,588.3	
Effective utilization rate	%	Consolidated basis in Japan	Fiscal year	97.4	96.3	96.0	
Landfill waste	t	Consolidated basis in Japan	Fiscal year	0.2	0.0	0.0	

Note: In FY2022, the calculation was changed to count only waste, excluding valuables.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Environmental data (Chemical substances)

Substances subject to the PRTR

Facility	Cabinet order No.	Substance name	FY2020 (Apr. 2020-Mar. 2021)			FY2021 (Apr. 2021-Mar. 2022)			FY2022 (Apr. 2022-Mar. 2023)		
			Amount handled (kg)	Atmo-spheric emis-sions (kg)	Amount trans-ferred (kg)	Amount handled (kg)	Atmo-spheric emis-sions (kg)	Amount trans-ferred (kg)	Amount handled (kg)	Atmo-spheric emis-sions (kg)	Amount trans-ferred (kg)
Fukaya Facility	12	Acetaldehyde	3,983	0	0	3,794	0	0	3,951	0	2.6
	204	Diphenyl ether	1,293	0	0	1,663	0	0	1,364	0	0
	207	2,6-di-tertiary-butyl-4-cresol	2,583	0	0	2,409	0	0	2,438	0	0
	232	N, N-Dimethyl form aldehyde	2,731	0	2,591	1,000	0	963	1,244	0	1,242
	300	Toluene	8,184	591	7,593	5,653	717	4,935	4,336	1020	3,315
	392	n-Hexane	32,332	1,119	28,119	42,944	1,502	37,217	44,277	1,724	37,595
	399	Benzaldehyde	1,403	0	0	1,273	0	0	1,235	0	0
	436	Alpha Methyl Styrene	2,902	0	0	-	-	-	966.2	0	0
Itakura Facility	392	n-Hexane	–	–	–	1,770	1,780	0	1,222	918	0

Note: The reporting fiscal year period for the release and transfer volume data of substances subject to the PRTR law differs from the Company's fiscal year period.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Number of employees by employment type and region)

Number of employees by employee type and region

		Unit	Calculation period Time of calculation	FY2021	FY2022	FY2023
Total number of group employees		People	Fiscal year-end	1,949	2,016	2,013
By employment type	Full-time employee	People	Fiscal year-end	1,692	1,774	1,769
	Full-time contract employee	People	Fiscal year-end	70	69	78
	Short-term employee	People	Fiscal year-end	187	173	166
Number of employees by region				–		
Japan	Full-time employee	People	Fiscal year-end	1,087	1,097	1,086
	Full-time contract employee	People	Fiscal year-end	68	69	75
	Short-term employee	People	Fiscal year-end	75	69	63
U.S.	Full-time employee	People	Fiscal year-end	165	185	185
	Full-time contract employee	People	Fiscal year-end	0	0	0
	Short-term employee	People	Fiscal year-end	32	18	14
Asia	Full-time employee	People	Fiscal year-end	440	492	498
	Full-time contract employee	People	Fiscal year-end	2	0	3
	Short-term employee	People	Fiscal year-end	80	86	89

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Number of employees by sex)

Number of employees by sex

		Unit	Calculation period Time of calculation	FY2021			FY2022			FY2023		
				Total	Male	Female	Total	Male	Female	Total	Male	Female
Domestic group	Full-time employee	People	Fiscal year-end	1,087	719	368	1,097	718	379	1,086	704	382
	Full-time contract employee	People	Fiscal year-end	68	52	16	69	50	19	75	53	22
	Short-term employee	People	Fiscal year-end	75	34	41	69	19	50	63	17	46
T.Hasegawa (Non-consolidated basis)	Full-time employee	People	Fiscal year-end	1,030	689	341	1,039	685	354	1,033	675	358
	Full-time contract employee	People	Fiscal year-end	68	52	16	68	50	18	72	52	20
	Short-term employee	People	Fiscal year-end	66	29	37	63	18	45	53	12	41

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Number of employees by age)

Number of employees by age

	Unit	Calculation period Time of calculation	FY2021			FY2022			FY2023			Supplementary information (standards/methods used, preconditions, etc.)
			Total	Male	Female	Total	Male	Female	Total	Male	Female	
Number of domestic group employees (some employees are not included)	People	Fiscal year-end	1,191	789	402	1,198	780	418	1,189	767	422	Temporary employees are not included.
Under the age of 30	People	Fiscal year-end	148	90	58	153	85	68	139	75	64	
Age 30 to 50	People	Fiscal year-end	670	440	230	659	435	224	648	430	218	
Over the age of 50	People	Fiscal year-end	373	259	114	386	260	126	402	262	140	

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Status of hiring, retention, and turnover)

New hires

		Unit	Calculation period Time of calculation	FY2021			FY2022			FY2023		
				Total	Male	Female	Total	Male	Female	Total	Male	Female
Japan	New graduate hires	People	Fiscal year	14	7	7	15	7	8	16	10	6
	Mid-career hires	People	Fiscal year	33	23	10	33	20	13	31	18	13
Asia	New graduate hires	People	Fiscal year	9	4	5	8	2	6	5	2	3
	Mid-career hires	People	Fiscal year	36	15	21	58	35	23	47	27	20

Note: In the United States, employees are not hired as new hires or mid-career hires.

Retention and turnover

	Unit	Scope	Calculation period Time of calculation	FY2021			FY2022			FY2023		
				Total	Male	Female	Total	Male	Female	Total	Male	Female
Average years of employment	Year	Non-consolidated basis	Fiscal year	17.3	17.7	16.3	17.3	17.8	16.4	17.7	18.2	16.6
Total number of employee turnover	People	Non-consolidated basis	Fiscal year	13	9	4	15	11	4	26	16	10
Turnover rate	%	Non-consolidated basis	Fiscal year	1.2%	1.2%	1.1%	1.4%	1.5%	1.1%	2.3%	2.2%	2.7%

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Appointment of women and local hires)

Appointment of women

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Number of women in management positions	People	Group	Fiscal year-end	84	89	88
Percentage of women in management positions	%	Group	Fiscal year-end	24.9%	25.3%	25.0%

Appointment of local hires and proportion of senior management hired from the local community in overseas entities

	Unit	Calculation period Time of calculation	FY2021	FY2022	FY2023
Total number of overseas Group company officers	People	Fiscal year-end	30	38	35
Number of local officers	People	Fiscal year-end	3	4	4
Percentage of local officers	%	Fiscal year-end	10%	11%	11%

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Hiring of people with disabilities and labor-management relations)

Hiring of people with disabilities

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Percentage of people with disabilities hired	%	Non-consolidated basis	Fiscal year-end	2.52%	2.40%	2.68%

Labor-management relations

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Percentage of employees subject to collective bargaining agreement (Parameter: all employees)	%	Non-consolidated basis	Fiscal year-end	53.0%	52.2%	50.6%
Percentage of employees subject to collective bargaining agreement (Parameter: non-management regular employees)	%	Non-consolidated basis	Fiscal year-end	95.3%	94.4%	94.3%

Note: The percentage of employees subject to collective bargaining agreement (Parameter: non-management regular employees) for FY2021 is different from the value in the ESG Databook 2022, which is a result of recalculation.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Status of wages)

Salary of new employees

	Scope	Monthly wage (yen)	Comparison with the minimum wage in Tokyo (%)	Supplementary information (standards/methods used, preconditions, etc.)
Percentage of the standard new employee wage relative to the local minimum wage		–	–	Minimum wage in Tokyo (Oct. 2023): 1,113 yen 1,113 yen x 150 hours = 166,950 yen
University graduate	Non-consolidated basis	215,000	128.78%	A salary system based on the grade and course is implemented. There is no gap by sex or region between employees with the same qualifications, grade, and so on. Starting salary in April 2024
Graduate school graduate	Non-consolidated basis	234,900	140.70%	A salary system based on the grade and course is implemented. There is no gap by sex or region between employees with the same qualifications, grade, and so on. Starting salary in April 2024

Salary of employees in Japan by sex

		FY2022				FY2023				Supplementary information (standards/methods used, preconditions, etc.)
		Average annual salary	(i)Average salary of male employees	(ii)Average salary of female employees	(ii) / (i) (%)	Average annual salary	(i)Average salary of male employees	(ii)Average salary of female employees	(ii) / (i) (%)	
Japan	Full-time employee	7,258,542	7,939,305	5,883,668	74.1%	7,279,750	7,984,284	5,893,347	73.8%	
	Non-regular employees	4,574,073	5,180,854	3,303,624	63.8%	4,229,967	4,600,719	3,488,463	75.8%	Note: Full-time contract employees, part-time contract employees, and fixed-term employees

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Childcare and nursing care support)

Childcare support

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Total number of employees who took childcare leave (male)	People	Domestic group	Fiscal year	13	12	27
Total number of employees who took childcare leave (female)	People	Domestic group	Fiscal year	13	12	9
Total number of employees who returned to their jobs from childcare leave during the reporting period (male)	People	Domestic group	Fiscal year	11	13	25
Total number of employees who returned to their jobs from childcare leave during the reporting period (female)	People	Domestic group	Fiscal year	14	11	11
Total number of employees who are still with the Company 12 months after reinstatement from childcare leave (male)	People	Domestic group	Fiscal year	3	11	13
Total number of employees who are still with the Company 12 months after reinstatement from childcare leave (female)	People	Domestic group	Fiscal year	10	13	10
Reinstatement rate after childcare leave (male)	%	Domestic group	Fiscal year	100	100	100
Retention rate of employees 12 months after reinstatement following childcare leave (male)	%	Domestic group	Fiscal year	100	100	100
Reinstatement rate after childcare leave (female)	%	Domestic group	Fiscal year	100	100	100
Retention rate of employees 12 months after reinstatement following childcare leave (female)	%	Domestic group	Fiscal year	100	92.9	90.9
Number of employees who used reduced work hours for childcare (male)	People	Domestic group	Fiscal year	1	1	0
Number of employees who used reduced work hours for childcare (female)	People	Domestic group	Fiscal year	38	34	34

Nursing care support

	Unit	Scope	Calculation period Time of calculation	Apr. 2020 - Mar. 2021	Apr. 20201 - Mar. 2022	Apr. 2022 - Mar. 2023
Total number of employees who took nursing care leave (male and female)	People	Domestic group	–	21	23	27
Total number of employees who took long-term nursing care leave (male and female)	People	Domestic group	–	1	0	1
Number of employees who used reduced work hours for nursing care (male and female)	People	Domestic group	–	0	0	0

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Safety and health)

Occupational accidents

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, preconditions, etc.)
Number of workplace deaths	People	Non-consolidated basis	Fiscal year	0	1	0	
Number of accidents requiring leave	People	Non-consolidated basis	Fiscal year	1	5	4	Commuting accidents are excluded.
Number of accidents not requiring leave	People	Non-consolidated basis	Fiscal year	7	6	6	Commuting accidents are excluded.
Ratio of worktime loss from accidents resulting in leave	–	Non-consolidated basis	Fiscal year	0.53	3.17	2.13	Commuting accidents are excluded. Accidents not requiring leave are excluded.
Ratio of worktime loss from occupational accidents resulting in leave	–	Non-consolidated basis	Fiscal year	0.0048	3.9843	0.0188	Commuting accidents are excluded.
Ratio of worktime loss from occupational illnesses resulting in leave	–	Non-consolidated basis	Fiscal year	0	0	0	

Overwork prevention

	Unit	Scope	Apr. 2019-Mar. 2020	Apr. 2020-Mar. 2021	Apr. 2021-Mar. 2022	Apr. 2022-Mar. 2023
Average paid leave days taken	Day	Non-consolidated basis	11.8	10.5	11.7	12.9
Rate of taking paid leave	%	Non-consolidated basis	63.6	56.8	62.7	69.0

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Safety and health)

Health

	Unit	Scope	Apr. 2019 -Mar. 2020	Apr. 2020 -Mar. 2021	Apr. 2021 -Mar. 2022	Apr. 2022 -Mar. 2023	Supplementary information (standards/methods used, preconditions, etc.)
Rate of receiving periodic health checkup	%	Non-consolidated basis	96.88	95.76	96.05	96.38	Data from the health insurance society (The parameter includes absentee employees and employees assigned to overseas sites)
Rate of employees subject to specific health guidance	%	Non-consolidated basis	19.0	19.6	19.0	18.6	Same as above
Rate of completion of specific health guidance	%	Non-consolidated basis	5.47	3.65	5.71	5.88	Same as above
Rate of receiving stress check	%	Non-consolidated basis	99.3	98.8	98.7	99.4	

Number of employees by site and presence or absence of the Occupational Safety and Health Committee (as of the end of FY2023)

	Unit	Scope	Head office	R&D Center	Fukaya Facility	Itakura Facility	Total
Number of employees	People	Non-consolidated basis	247	329	331	232	1,139
Site with the Occupational Safety and Health Committee	-		✓	✓	✓	✓	–
Rate of workers under the control of the Occupational Safety and Health Committee	%	Non-consolidated basis	21.7	28.9	29.0	20.4	100.0

Note: The data for Osaka, Nagoya, and Sapporo offices with less than 50 employees, which are not required to establish the Occupational Safety and Health Committee, are excluded from the data.

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Career development)

Training hours

	FY2022	FY2023	Supplementary information (standards/methods used, preconditions, etc.)
Annual training hours per employee (hours)	12.9	13.4	Total hours of training hosted by the Human Resources Division divided by the number of employees at the end of the period

Percentage of employees receiving regular performance and career development reviews

	Unit	Scope	Calculation period Time of calculation	FY2022	FY2023
Rate of conducting evaluation interview on performance targets	%	Non-consolidated basis	Fiscal year-end	99.8	100

Number of employees who participated in training

	FY2022			FY2023		
	Number of participants (people)	Male (people)	Female (people)	Number of participants (people)	Male (people)	Female (people)
Senior management training	16	15	1	17	16	1
Management training	23	18	5	25	18	7
Training for new managerial staff	27	17	10	25	16	9
Junior board (THBC)	11	8	3	31	27	4
Mid-career employee training	34	19	15	24	15	9
Internal seminars	60	37	23	250	123	127
Third year training	18	12	6	10	6	4
New employee training	13	7	6	14	9	5
Compliance training (e-learning)	408	309	99	1,112	730	382

Training cost

	Unit	Scope	Calculation period Time of calculation	FY2020	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, preconditions, etc.)
Annual training cost per employee	Yen	Non-consolidated basis	Fiscal year	16,091	23,474	24,360	23,110	Total education cost divided by the number of employees at the end of the period

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Human rights and labor-related data (Employee stock ownership and human rights)

Employee stock ownership

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023	Supplementary information (standards/methods used, preconditions, etc.)
Number of employees participating in stock ownership	People	Non-consolidated basis	Fiscal year-end	625	634	623	
Participation rate	%	Non-consolidated basis	Fiscal year-end	56.9%	57.3%	56.4%	Parameter: number of employees at the end of the period

Human rights

	Unit	Scope	Calculation period Time of calculation	FY2022	FY2023	Supplementary information (standards/methods used, preconditions, etc.)	Target
Internal control training when entering the Company (including human rights topics)	%	Non-consolidated basis	Fiscal year-end	100	100	When entering the Company or assigned to position (including temporary employees)	100%
Compliance training (including harassment prevention training)	%	Non-consolidated basis	Fiscal year-end	100	100	FY2022 for managers, or when promoted to management positions FY2023 all employees	100%

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Quality and safety-related data

Quality and safety-related data

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Serious quality incidents resulting in market recalls (number of recalls)	Cases	Non-consolidated basis	Fiscal year	0	0	0
Product complaints from customers	Cases	Non-consolidated basis	Fiscal year	5	3	0
Number of FSSC22000 courses held	Times	Non-consolidated basis	Fiscal year	2	1	3
Number of employees who participated in FSSC22000 course	People	Non-consolidated basis	Fiscal year	92	37	58
Number of ISO9001 internal auditor seminar held	Times	Non-consolidated basis	Fiscal year	1	1	2
Number of employees who participated in ISO9001 internal auditor seminar	People	Non-consolidated basis	Fiscal year	32	20	77

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Governance-related data

Governance

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Number of Board of Directors members	People	Non-consolidated basis	Fiscal year-end	6	8	8
Of which female directors	People	Non-consolidated basis	Fiscal year-end	0	1	1
Of which outside directors	People	Non-consolidated basis	Fiscal year-end	2	3	3
Number of auditors	People	Non-consolidated basis	Fiscal year-end	4	4	4
Of which female directors	People	Non-consolidated basis	Fiscal year-end	1	1	1
Of which outside auditors	People	Non-consolidated basis	Fiscal year-end	3	3	3
Number of Board of Directors' meetings held	Times	Non-consolidated basis	Fiscal year	12	11	11
Number of matters resolved by the Board of Directors	Cases	Non-consolidated basis	Fiscal year	48	51	41
Number of matters reported to the Board of Directors	Cases	Non-consolidated basis	Fiscal year	45	48	50
Number of Audit and Supervisory Board meetings held	Times	Non-consolidated basis	Fiscal year	11	11	11
Number of Appointment Committee meetings held	Times	Non-consolidated basis	Fiscal year	4	1	2
Number of Compensation Committee meetings held	Times	Non-consolidated basis	Fiscal year	1	2	2

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Governance-related data

Compliance

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Number of whistleblowing cases	Cases	Non-consolidated basis	Fiscal year	6	7	9
Number of serious compliance violations	Cases	Non-consolidated basis	Fiscal year	0	0	0
Number of compliance-related training held	Times	Non-consolidated basis	Fiscal year	6	5	4
Number of employees who took compliance-related training	People	Non-consolidated basis	Fiscal year	469	530	1,170
Number of serious data breach incidents	Cases	Non-consolidated basis	Fiscal year	0	0	0
Total fines	Yen	Non-consolidated basis	Fiscal year	0	0	0

Dialog with investors

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
Number of briefings for institutional investors held	Times	Non-consolidated basis	Fiscal year	2	2	2
Number of IR small meetings/ individual meetings	Cases	Non-consolidated basis	Fiscal year	51	76	58

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Innovation-related data

Innovation-related data

	Unit	Scope	Calculation period Time of calculation	FY2021	FY2022	FY2023
R&D costs	Billion yen	Consolidated basis in Japan	Fiscal year	47	50	52
Number of patent applications Number of domestic applications in parentheses	Cases	Consolidated basis in Japan	Fiscal year	33 (25)	30 (25)	24 (16)
Number of joint research with external organizations	Cases	Consolidated basis in Japan	Fiscal year	14	12	15

Copyright© T.HASEGAWA CO., LTD. All rights reserved

Independent Assurance Report

Mr. Takao Umino
President & CEO
T. HASEGAWA CO., LTD.

We, SOCOTEC Certification Japan (hereafter "SOCOTEC"), have performed a limited assurance engagement, in response to the entrustment from T. HASEGAWA CO., LTD. (hereafter "the Company"), in order to provide an opinion as to whether the subject matter information ("FY2021 GHG Emission Calculation Report" (period: 1 October 2020 to 30 September 2021)) of the Company meets the criteria in all material respects.

1 Subject Matter Information and Criteria

The subject matter information for our assurance is "a report on energy-derived greenhouse gas emissions (Scope 1, Scope 2 (location-based and market-based)) and all other indirect greenhouse gas emissions that occur in a company's value chain (Scope 3 (Categories: 1, 2, 3, 4, 5, 6, 7, 12))" covering the non-consolidated operations and activities of the company as described in "FY2021 GHG Emission Calculation Report" (period: 1 October 2020 to 30 September 2021).

The criteria for preparing subject matter information is "GHG Emission Calculation Rule".

Subject matter information					
GHG emission data period: 1 October 2020 to 30 September 2021 Energy-derived GHG emissions			All other indirect GHG emissions that occur in a company's value chain Scope 3: 115,143 t-CO2e Breakdown (t-CO2e)		
Scope 1:	7,442	t-CO2e	Category 1: 104,454	Category 2: 4,381	Category 3: 3,099
Scope 2: location-based	7,251	t-CO2e	Category 4: 954	Category 5: 795	Category 6: 483
market-based	7,463	t-CO2e	Category 7: 918	Category 12: 59	

2 Management Responsibility

"FY2021 GHG Emission Calculation Report" (period: 1 October 2020 to 30 September 2021) was prepared by the management of the Company, who is responsible for the integrity of the assertions, statements, and claims made therein (including the assertions over which we have been engaged to provide limited assurance), the collection, quantification and presentation of all data and information in the report, and applied criteria, analysis and publication.

The management of the Company is responsible for maintaining adequate records and internal controls that are designed to support the reporting process and ensure that "FY2021 GHG Emission Calculation Report" (period: 1 October 2020 to 30 September 2021) is free from material misstatement whether due to fraud or error.

3 Assurance Practitioner's Responsibility

The responsibility of SOCOTEC is to express a limited assurance conclusion as to whether the subject matter information has been prepared in compliance with the criteria in all material respects.

SOCOTEC performed limited assurance engagement in accordance with the verification procedures stipulated by SOCOTEC and "ISO14064-3: Specification with guidance for the verification and validation of greenhouse gas statements".

The procedures implemented in the limited assurance engagement are limited in their type, timing and scope as compared to the procedures implemented in the reasonable assurance engagement. As a result, our limited assurance engagement does not provide as high assurance as reasonable assurance engagement.

Our procedures performed depend on the assurance professional practitioner's judgement, including the risk of material misstatement, whether due to fraud or error. Our conclusion was not designed to provide assurance on internal controls.

We believe that we have obtained the evidence to provide a basis for the conclusion for limited assurance.

ミックス
責任ある木質資源を使用した紙
FSC® C005004

4 Assurance Procedures

The procedures that SOCOTEC has conducted are based on professional judgment and include, but are not limited to:

- Evaluation of policies and procedures created by the Company in relation to subject matter information
- Questions to the Company personnel to understand the above policies and procedures
- Verification that the target project meets eligibility requirements
- Matching with the basis data by trial calculation and recalculation
- Obtaining and collating material for important assumptions and other data
- We visited Head Office and Itakura Facility of the Company in order to confirm the calculation structure and procedures, data collection and implementation status of record control.

5 Statement of Our Independence, Quality Control and Competence

SOCOTEC has introduced and maintained a comprehensive management system that conforms to the accreditation requirements of "ISO17021 Conformity assessment -- Requirements for bodies providing audit and certification of management systems". In addition, we have also established a management system according to "ISO14065 Greenhouse gases -- Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition". These meet the requirements of International Standard on Quality Control 1 by the International Auditing and Assurance Standards Board and Code of Ethics for Professional Accountants by International Ethics Standards Board for Accountants. We maintain a comprehensive quality control system that includes ethical rules, professional standards and documented policies and procedures for compliance with applicable laws and regulations.

The SOCOTEC Group is a comprehensive third-party organisation in inspection, testing and certification operations, and conducts management system certification services and training services related to quality, environment, labour and information security in countries around the world. Engaged in performance data and sustainability report assurance of environmental and social information, SOCOTEC affirms that it is independent of the organisation that has ordered the assurance engagement, its affiliated companies, and stakeholders, and that there is no possibility of impairing impartiality or conflict of interest.

We assure that the team engaged in the assurance is selected based on knowledge, experience in the relevant industry, and the competence requirements for this assurance engagement.

6 Use of Report

Our responsibility in performing our limited assurance activities is to the management of the company only in accordance with the terms for this engagement as agreed with the Company. We do not therefore assume any responsibility for any other purpose or to any other person or organisation.

7 Our Conclusion

On the basis of our procedures performed and evidence obtained nothing has come to our attention that causes us to believe that the subject matter information is not, in all material respects, prepared and reported in accordance with the stated criteria.

SOCOTEC Certification Japan

S. Futaba

Seigo Futaba
Managing Director
31 August 2022

ミックス
責任ある木質資源を使用した紙
FSC® C005004

Greenhouse gas emissions Verification Statement

10 March 2023

T. HASEGAWA CO., LTD.

Japan Management Association
GHG Certification Center
Senior Executive: Masahiro Hirakawa

1. Objective and Scope of Verification

Japan Management Association GHG Certification Center (JMACC) was commissioned by T. HASEGAWA CO., LTD. (hereinafter, referred to as "the Organization") to conduct independent verification on a limited level of assurance. The scope of verification is the following greenhouse gas (GHG) emissions of the Organizational boundary※1 within its Monitoring Report (hereinafter, referred to as "the Report") from 1/October/2021 to 30/September/2022.

1) SCOPE 1 GHG emissions;
   Direct CO_2 emissions from the Organizational boundary by using City gas, LPG and A type heavy oil
2) SCOPE 2 GHG emissions;
   Indirect CO_2 emissions from the Organizational boundary by using electricity
3) SCOPE 3 GHG emissions;
   CO_2 emissions from the category 1, 2, 3, 4, 5, 6, 7 and 12 of SCOPE 3※2 of the Organization

The objective of this verification is to confirm that the GHG emissions in the Organization's applicable scope have been correctly calculated and reported in line with the criteria of the monitoring procedure※3, and to express our views as a third party. Organization's responsibility is to calculate and report the GHG emissions and JMACC's responsibility is to express our views as a third party.

2. Procedure of Verification

The Report was verified in accordance with the requirements of ISO14064-3:2019 (Greenhouse gases - Part 3: Specification with guidance for the verification and validation of greenhouse gas statements), and following processes were conducted.

- Confirmation regarding to the data used to decide GHG emissions, monitoring procedure, monitoring system, and related documents
- Interviews with person in charge of making the Report
- Confirmation of the evidence by sampling for confirmation of the accuracy of GHG emissions

3. Conclusion of Verification

Within the scope of the verification activities employing the methodologies mentioned above, nothing has come to our attention that caused us to believe that Organization's GHG emissions in the Report from 1/October/2021 to 30/September/2022 were not calculated and reported in conformance with the criteria.

Verified GHG emissions (t-CO_2e)			
	T. HASEGAWA CO., LTD.	T. HASEGAWA BUSINESS SERVICE CO., LTD.	Domestic consolidated※5
SCOPE 1	**6,873**	**1,506**	**8,379**
SCOPE 2※4	**7,792**	**1,089**	**8,881**
SCOPE 3※5	**135,029**	**1,664**	**136,693**
Breakdown of SCOPE 3			
Category 1	124,296	501	124,796
Category 2	3,527	0	3,527
Category 3	3,027	409	3,436
Category 4	1,801	543	2,344
Category 5	846	122	968
Category 6	585	11	596
Category 7	888	75	962
Category 12	60	3	63

NOTE:

※1 : Organizational boundary : T. HASEGAWA Group Domestic consolidated (Total 8 sites)
- T. HASEGAWA CO., LTD. : Head Office (including Kajicho Building and KYY Building), Osaka Branch, Nagoya Sales Office, Sapporo Sales Office, R&D Center, Fukaya Facility, Itakura Facility
- T. HASEGAWA BUSINESS SERVICE CO., LTD. : Fine Foods Facility

※2 : Categories of SCOPE 3 are 1, 2, 3, 4, 5, 6, 7 and 12
- **Category 1** (Purchased goods and services) : Purchased raw materials , sub-materials, products, tap water, industrial water, and major indirect expenses
- **Category 2** (Capital goods) : Tangible fixed assets by capital investment
- **Category 3** (Fuel and energy related activities not included in Scope 1 or Scope 2) : Fuel and electricity consumption at the organizational boundary
- **Category 4** (Transport and delivery (upstream)) :
  - T. HASEGAWA CO., LTD. : Domestic / overseas transportation, Carrying from storage to other storage
  - T. HASEGAWA BUSINESS SERVICE CO., LTD. : Domestic transportation
- **Category 5** (Waste generated in operations) : Industrial waste at the organizational boundary and non-industrial waste at Head Office and R&D Center
- **Category 6** (Business travel) : Full-time employee at the organizational boundary
- **Category 7** (Employee commuting) : Full-time employee at the organizational boundary
- **Category 12** (End-of-life treatment of sold products) : Disposal of packaging materials of sold products

※3 : Monitoring procedure of SCOPE 1,2 and 3 : "Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver.2.4) ", "Database of emissions unit values for Greenhouse Gas Emissions Throughout the Supply Chain (ver.3.2) " and "GHG monitoring procedures" prepared by the organization.

※4 : Emission factor for electricity consumption : Adjusted emission factor under GHG emissions reporting system

※5 : Amount of GHG emissions (t-CO_2e) are included after decimal of each GHG emissions (t-CO_2e).

Greenhouse gas emissions Verification Statement

18 March 2024

T. HASEGAWA CO., LTD.

Japan Management Association
GHG Certification Center
Senior Executive: Masahiro Hirakawa

1. Objective and Scope of Verification

Japan Management Association GHG Certification Center (JMACC) was commissioned by T. HASEGAWA CO., LTD. (hereinafter, referred to as "the Organization") to conduct independent verification on a limited level of assurance. The scope of verification is the following greenhouse gas (GHG) emissions within the Organizational boundary※1 in its Monitoring Report (hereinafter, referred to as "the Report") from 1 October 2022 to 30 September 2023.

1) SCOPE 1 GHG emissions;
   Direct CO_2 emissions within the Organizational boundary by using City gas, LPG and A type heavy oil
2) SCOPE 2 GHG emissions;
   Indirect CO_2 emissions within the Organizational boundary by using electricity
3) SCOPE 3 GHG emissions;
   CO_2 emissions within the category 1, 2, 3, 4, 5, 6, 7 and 12 of SCOPE 3※2

The objective of this verification is to confirm that the monitoring data in the Organization's applicable scope have been correctly calculated and reported in line with the criteria of the monitoring procedure※3, and to express our views as a third party. The Organization's responsibility is to prepare the Report and report the monitoring data, and JMACC's responsibility is to express our views on the monitoring data of the Report as a third party.

2. Procedure of Verification

The Report was verified by JMACC in accordance with requirement of ISO14064-3:2019 (Greenhouse gases Part 3: Specification with guidance for the verification and validation of greenhouse gas statements), and following processes were implemented:

- Assessment regarding to the information to specify the GHG emissions in the Report, monitoring procedure, monitoring system, and related documents
- Interviews with persons in charge of preparing the Report
- Verifying the evidence for confirmation of the accuracy of GHG emissions by sampling

3. Conclusion of Verification

Within the scope of the verification activities employing the methodologies mentioned above, nothing has come to our attention that caused us to believe that the Organization's GHG emissions in the Report were not calculated and reported in conformance with the criteria.

Verified GHG emissions (t-CO_2e)			
	T. HASEGAWA CO., LTD.	T. HASEGAWA BUSINESS SERVICE CO., LTD.	Domestic consolidated※5
SCOPE 1	**6,477**	**1,442**	**7,920**
SCOPE 2※4	**7,052**	**1,075**	**8,127**
SCOPE 3※5	**144,131**	**1,549**	**145,681**
Breakdown of SCOPE 3			
Category 1	129,654	499	130,152
Category 2	7,355	2	7,358
Category 3	2,880	403	3,284
Category 4	1,648	520	2,168
Category 5	721	43	763
Category 6	938	11	949
Category 7	875	68	943
Category 12	61	2	63

NOTE:

※1 : Organizational boundary : T. HASEGAWA Group Domestic consolidated (Total 8 sites)
- T. HASEGAWA CO., LTD. : Head Office (including Kajicho Building and KYY Building), Osaka Branch, Nagoya Sales Office, Sapporo Sales Office, R&D Center, Fukaya Facility, Itakura Facility
- T. HASEGAWA BUSINESS SERVICE CO., LTD. : Fine Foods Facility

※2 : Categories of SCOPE 3 are 1, 2, 3, 4, 5, 6, 7 and 12 :
- **Category 1** (Purchased goods and services) :
  Purchased raw materials , sub-materials, products, tap water, industrial water, and major indirect expenses
- **Category 2** (Capital goods) : Capital goods purchased or constructed (facilities, equipment, vehicles, software etc.)
- **Category 3** (Fuel and energy related activities not included in Scope 1 or Scope 2) :
  Fuel and electricity consumption reported by Scope 1,2 within the organizational boundary
- **Category 4** (Transport and distribution (upstream)) :
  - T. HASEGAWA CO., LTD. : Domestic / overseas transportation, Carrying from storage to other storage
  - T. HASEGAWA BUSINESS SERVICE CO., LTD. : Domestic transportation
- **Category 5** (Waste generated in operations) :
  Industrial waste generated in operations within the organizational boundary and non-industrial waste generated within Head Office and R&D Center
- **Category 6** (Business travel) : Business travel via public transportation and vehicles by employees
- **Category 7** (Employee commuting) : Employee commuting to the worksites
- **Category 12** (End-of-life treatment of sold products) : Disposal of packaging materials of sold products

※3 : Monitoring procedure of SCOPE 1, 2 and 3 : "Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver.2.5) ", "Database of emissions unit values for Greenhouse Gas Emissions throughout the Supply Chain (ver.3.3) " and "GHG monitoring procedures" prepared by the Organization.

※4 : Emission factor for electricity consumption : Adjusted emission factor under GHG emissions reporting system of Japan

※5 : The amount of GHG emissions ($t\text{-}CO_2e$) are totaled including figures after decimal of each GHG emissions.