



# **PERFORMANCE OF KEY ECONOMIC, GOVERNANCE, ENVIRONMENTAL, AND SOCIAL INDICATORS 2023**

## ECONOMIC PERFORMANCE

Economic Performance	Unit	2020	2021	2022	2023
<b>Business Overview</b>					
Net Sales	Mil THB	132,402.44	141,047.69	155,586.35	136,152.71
Total Cost					
• Operating cost	Mil THB	124,568.87	132,827.86	147,714.07	129,300.00
• Total Employee expenses + related benefits	Mil THB	13,748.40	12,971.13	14,002.52	12,818.53
• Cash paid for interest expenses	Mil THB	2,052.33	2,031.77 <sup>(1)</sup>	2,344.52	2,519.61
• Dividend paid	Mil THB	2,538.82	3,946.89	4,399.38	3,891.13
• Cash paid for corporate income tax	Mil THB	668.20	883.44	959.78	806.61
◦ Asia	Mil THB	205.34	372.40	488.54	397.66
◦ EU & Africa	Mil THB	764.14	480.55	384.00	454.93
◦ North America	Mil THB	-301.27	30.50	87.24	-45.97
<b>R&amp;D / Innovation</b>					
• R&D spending as percentage of net sales	%	0.24	0.21	0.18	0.09
<b>Corporate Social Responsibility</b>					
• CSR & community investment spending	Mil THB	65.08	68.32	101.84	77.56
• Thai Union Group companies covered under SeaChange® & CSR program	%	100	100	100	100

### Remark:

- Tax paid: Positive amount (+) mean tax paid/ Negative amount (-) meant tax refund.
- <sup>(1)</sup> Revised from 1,921.61mb to 2,031.77mb (increase +110.16mb from Deferred financing costs - Long-term loans from Banks & Other financial institutions).
- The Bank of Thailand (BOT) has recently published a preliminary version of the Thailand Taxonomy Framework. This framework is still in the development phase and is currently undergoing a review process (<https://www.bot.or.th/en/financial-innovation/sustainable-finance/green/Thailand-Taxonomy.html>). While it is not yet finalized, the current draft primarily emphasizes the Transportation and Energy sectors. Consequently, Thai Union, a company operating in the food industry, is anticipating an updated version of the framework that includes the fishery sector, which is more relevant to their business. Thai Union is committed to adhering to the taxonomy requirements once the finalized version is released.

**SOCIAL PERFORMANCE**

GRI	Data	Unit	2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
2-7 a. (2021)	Human Capital Performance									
	Total workforce	Persons	44,101		44,705		48,630		44,797	
		Persons	42.48	57.52	42.91	57.09	42.93	57.07	43.28	56.72
2-7 a. (2021)	Total Workforce by area									
	Asia	Persons	N/A	N/A	N/A	N/A	14,886	28,506	13,514	25,488
	US Region	Persons	N/A	N/A	N/A	N/A	238	311	253	215
	EU Region	Persons	N/A	N/A	N/A	N/A	1,904	2,785	2,144	3,183
2-7 a. (2021)	Total by Employment Contract and by Area									
	Permanent contract	Persons	N/A		N/A		12,557		41,470	
	Asia	Persons	N/A	N/A	N/A	N/A	3,389	4,249	13,186	25,172
	US Region	Persons	N/A	N/A	N/A	N/A	104	134	253	215
	EU Region	Persons	N/A	N/A	N/A	N/A	1,898	2,783	1,101	1,543
	Temporary contract	Persons	N/A		N/A		36,073		822	
	Asia	Persons	N/A	N/A	N/A	N/A	11,497	24,257	257	314
	US Region	Persons	N/A	N/A	N/A	N/A	134	177	-	-
	EU Region	Persons	N/A	N/A	N/A	N/A	6	2	115	136
	Non-guaranteed hours employees	Persons	N/A		N/A		No data		2,505	
	Asia	Persons	N/A	N/A	N/A	N/A	No data	No data	72	1
	US Region	Persons	N/A	N/A	N/A	N/A	No data	No data	-	-
	EU Region	Persons	N/A	N/A	N/A	N/A	No data	No data	928	1,504
2-7 b. (2021)	Total Workforce by Employment Type									
	Full time employee (FTE)	Persons	12,967		13,571		12,557		13,030	
	Asia	Persons	N/A	N/A	N/A	N/A	3,389	4,249	3,244	3,995
	US Region	Persons	N/A	N/A	N/A	N/A	104	134	253	215
	EU Region	Persons	N/A	N/A	N/A	N/A	1,898	2,783	2,142	3,181
	Daily staff	Persons	31,134		31,134		36,073		31,767	
	Asia	Persons	N/A	N/A	N/A	N/A	11,497	24,257	10,270	21,493
	US Region	Persons	N/A	N/A	N/A	N/A	134	177	-	-
	EU Region	Persons	N/A	N/A	N/A	N/A	6	2	2	2
2-7 c. (2021)	Full time employee (FTE)	Persons	12,967		13,571		12,557		13,030	
		Persons	N/A	N/A	N/A	N/A	5,391	7,166	5,639	7,391
2-7 c. (2021)	Daily staff	Persons	31,134		31,134		36,073		31,767	
		Persons	N/A	N/A	N/A	N/A	11,637	24,436	10,272	21,495
405-1 (2016)	Total Workforce by Age Group									
	<30 years	% of FTEs	18.90		19.46		18.94		20.63	
		Persons	2,451		2,641		2,378		2,688	
		% of FTEs	N/A	N/A	N/A	N/A	8.62	10.32	8.83	11.80
		Persons	N/A	N/A	N/A	N/A	1,082	1,296	1,150	1,538
	30 - 50 years	% of FTEs	65.74		64.09		65.20		63.43	
		Persons	8,525		8,698		8,187		8,265	
% of FTEs		N/A	N/A	N/A	N/A	28.01	37.19	27.95	35.48	

GRI	Data	Unit	2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
		Persons	N/A	N/A	N/A	N/A	3,517	4,670	3,642	4,623
	>50 years	% of FTEs	13.63		16.45		15.86		15.94	
		Persons	1,767		2,232		1,992		2,077	
		% of FTEs	N/A	N/A	N/A	N/A	6.31	9.56	6.50	9.44
		Persons	N/A	N/A	N/A	N/A	792	1,200	847	1,230
	Other: Migrant	% of FTEs	11.77		12.09		13.19		13.02	
		Persons	1,526		1,641		1,656		1,696	
		% of FTEs	N/A	N/A	N/A	N/A	4.91	8.28	4.88	8.14
		Persons	N/A	N/A	N/A	N/A	616	1,040	636	1,060
405-1 a. (2016)	Total Workforce by Employee Category									
	Total management	% of FTEs	9.52		7.88		8.58		10.35	
		Persons	1,235		1,069		1,077		1,349	
		% of FTEs	5.03	4.50	4.27	3.61	4.56	4.02	5.36	4.99
		Persons	652	583	579	490	572	505	699	650
	Top-management	% of FTEs	0.19		0.18		0.40		0.41	
		Persons	25		25		50		54	
		% of FTEs	0.17	0.02	0.16	0.02	0.36	0.04	0.39	0.02
		Persons	22	3	22	3	45	5	51	3
	Senior-management <sup>(1)</sup>	% of FTEs	2.31		2.48		2.63		2.08	
		Persons	299		336		330		271	
		% of FTEs	1.66	0.65	1.61	0.87	1.61	1.02	1.25	0.83
		Persons	215	84	218	118	202	128	163	108
	Middle-management <sup>(2)</sup>	% of FTEs	7.03		5.22		5.55		7.86	
		Persons	911		708		697		1,024	
		% of FTEs	3.20	3.83	2.50	2.72	2.59	2.96	3.72	4.14
		Persons	415	496	339	369	325	372	485	539
	Non-management	% of FTEs	90.48		92.12		91.42		89.65	
		Persons	11,732		12,502		11,480		11,681	
		% of FTEs	37.45	53.03	38.29	53.84	40.24	51.18	37.91	51.73
		Persons	4,856	6,876	5,196	7,306	5,053	6,427	4,940	6,741
	Daily worker	% of FTEs	71		70		74.18		70.91	
		Persons	31,134		31,134		36,073		31,767	
		% of FTEs	N/A	N/A	N/A	N/A	23.93	50.25	22.93	47.98
		Persons	N/A	N/A	N/A	N/A	11,637	24,436	10,272	21,495
405-1 b. (2016)	Total Workforce by Nationality									
	Thai	% of FTEs	57.99		57.73		55.68		53.61	
		Persons	7,520		7,835		6,992		6,985	
	Ghanian	% of FTEs	7.47		8.88		9.25		12.25	
		Persons	969		1,205		1,162		1,596	
	French	% of FTEs	6.16		5.64		5.84		5.46	
		Persons	799		765		733		712	
	Malagasy	% of FTEs	5.64		5.23		4.79		3.44	
		Persons	731		710		601		448	

GRI	Data	Unit	2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Seychellois	% of FTEs	4.10		3.80		3.38		2.89		
		Persons	532		516		424		377		
	Other	% of FTEs	16.94		18.84		21.06		22.35		
		Persons	2,197		2,557		2,645		2,912		
405-1 a. (2016)	Total Management Workforce by Nationality										
	Thai	% of FTEs	71.11		62.74		5.97		5.63		
		Persons	9,221		8,514		750		733		
	Ghanian	% of FTEs	0		1.13		0.07		0.28		
		Persons	0		153		9		36		
	French	% of FTEs	11.05		10.00		0.25		1.16		
		Persons	1,433		1,357		31		151		
	Malagasy	% of FTEs	0		0.09		0.01		0.01		
		Persons	0		12		1		1		
	Seychellois	% of FTEs	0		2.45		0.20		0.20		
		Persons	0		332		25		26		
	Other	% of FTEs	17.84		23.58		2.08		3.09		
		Persons	2,313		3,200		261		402		
405-1 b. (2016)	People with Disability	% of FTEs	1.75		1.56		1.71		1.86		
		Persons	227		212		215		242		
401-1 a (2016)	New Employee	% of FTEs	14.40		8.15		12.53		19.63		
		Persons	1,867		1,106		1,573		2,558		
	Percentage of open positions filled by internal candidates (internal hires)	% of open positions	33.51		14.19		7.65		5.99		
	New employee hire and % internal hires	% of FTEs	16.64		9.60		13.67		20.94		
		Persons	2,158		1,303		1,716		2,728		
		% of FTEs	7.93	8.71	4.28	5.32	6.45	7.22	8.97	11.96	
		Persons	1,028	1,130	581	722	810	906	1,169	1,559	
	% internal hires	% of FTEs	N/A		N/A		1.14		1.30		
		Persons	N/A		N/A		143		170		
		% of FTEs	N/A	N/A	N/A	N/A	0.45	0.69	0.54	0.77	
		Persons	N/A	N/A	N/A	N/A	56	87	70	100	
	New Employee by area										
	Asia	% of FTEs	N/A		N/A		9.24		7.25		
		Persons	N/A		N/A	N/A	564	596	518	427	
	US Region	% of FTEs	N/A		N/A		0.44		0.86		
		Persons	N/A		N/A	N/A	19	36	65	47	
	EU Region	% of FTEs	N/A		N/A		3.99		12.82		
		Persons	N/A		N/A	N/A	227	274	586	1,085	
	New employee hire by age group										
	<30 years	% of FTEs	N/A			1.06	7.14		10.47		
		Persons	N/A		144		896		1,364		
	30 - 50 years	% of FTEs	N/A		1.18		5.89		9.35		
		Persons	N/A		160		739		1,218		

GRI	Data	Unit	2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	>50 years	% of FTEs	N/A		0.04		0.65		1.12		
		Persons	N/A		5		81		146		
	New employee hire and %internal hires by management level										
	Top-management	% of FTEs	0.17		0.08		0.04		0.04		
		Persons	22.00		11.00		5		5		
	Senior-management <sup>(1)</sup>	% of FTEs	0.17		0.08		0.96		0.21		
		Persons	22.00		11.00				27		
	Middle-management <sup>(2)</sup>	% of FTEs	0.29		0.35		120		0.78		
		Persons	38.00		47.00				101		
	Non-management	% of FTEs	1.97		1.85		12.67		19.92		
		Persons	256.00		251.00		1,591		2,595		
	Daily worker	% of FTEs	-		-		-		-		
		Persons	1,840.00		0		0		0		
	New employee by nationality										
	Thai	% of FTEs	N/A		N/A		7.03		6.86		
		Persons	N/A		N/A		883		894		
	Other nationality (e.g. Burmese, Indonesian, Vietnamese, American, French, Italian, Polish, Portuguese, Seychellois, Kenyan, British, Malagasy)	% of FTEs	N/A		N/A		4.74		14.08		
		Persons	N/A		N/A		595		1,834		
	401-1 b (2016)	Turnover									
		Total employee turnover rate	Persons	N/A		N/A		2,534		2,329	
				N/A	N/A	N/A	N/A	1,101	1,433	993	1,336
% of FTEs			17.49		13.23		20.18		17.87		
%			32	29	40	60	43.45	56.55	42.64	57.36	
Voluntary employee turnover rate		Persons	N/A		N/A		1,683		1,443		
			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		% of FTEs	14.89		14.89		13.40		11.07		
		%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Turnover by Area and Gender											
Asia		Persons	N/A		N/A		677	861	518	567	
		% of FTEs	N/A		N/A		12.25		8.33		
US Region		Persons	N/A		N/A		27	28	45	50	
		% of FTEs	N/A		N/A		0.44		0.73		
EU Region		Persons	N/A		N/A		397	544	430	719	
		% of FTEs	N/A		N/A		7.49		8.82		
Turnover by Age Group and Gender											
<30 years		Persons	N/A		N/A		N/A		675		
		% of Total employee turnover	N/A		36.56		5.74		5.18		
30 - 50 years		Persons	N/A		N/A		1,290		1,182		

GRI	Data	Unit	2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
		% of Total employee turnover	N/A		N/A		10.27		9.07		
	>50 years	Persons	N/A		N/A		28.30		472		
		% of Total employee turnover	N/A		13.83		4.17		3.62		
	Turnover rate by management level										
	Top-management	% of Total employee turnover	N/A		9.09		0.05		0.06		
		Persons	N/A	N/A	9.09		6		8		
	Senior-management <sup>(1)</sup>	% of Total employee turnover	N/A		8.16	1.15		0.34			
		Persons	N/A					44			
	Middle-management <sup>(2)</sup>	% of Total employee turnover	N/A					144	1.07		
		Persons	N/A				140				
	Non-management	% of Total employee turnover	N/A		14.93		18.99		16.40		
		Persons	-				2,384		2,137		
	Daily worker	% of Total employee turnover	N/A		N/A		N/A		N/A		
		Persons	N/A		N/A		N/A		N/A		
	Turnover rate by nationality										
	Thai	% of Total employee turnover	N/A		98.03		98.76		42.34		
		Persons	N/A		N/A		559		986		
	Other nationality (e.g. Burmese, Indonesian, Vietnamese, American, French, Italian, Polish, Portuguese, Seychellois, Kenyan, British, Malagasy)	% of Total employee turnover	N/A		1.31		0.53		57.66		
		Persons	N/A		N/A		3		1,343		
		Average hiring cost / FTE in the last fiscal year	Baht/FTE	N/A		N/A		11,492.86		17,491.78	
405-2 (2016)	Ratio of basic salary and remuneration of women to men										
	Executive level (base salary only)	-	0.85		0.92		0.99		1.08		
	Executive level (base salary + other cash incentives)	-	0.77		0.83		0.87		1.03		
	Management level (base salary only)	-	0.70		0.80		0.79		0.86		
	Management level (base salary + other cash incentives)	-	0.68		0.75		0.83		0.86		
	Non-Management level (base salary only)	-	1.00		0.99		0.92		0.97		

GRI	Data	Unit	2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Data coverage of Equal remuneration	%	100		100		100		100		
404-1 (2016)	Training an Education										
	Average hours per FTE of training and development	Hours/ FTE/ year	5.90		6.70		4.94		27.06		
			N/A	N/A	7.23	6.70	2.10	2.84	25.34	28.27	
	Average Hours of Training by age group										
	18 - 25 years	Hours/ FTE/ year	N/A		16.77		18.85		29.06		
	>25 - 35 years	Hours/ FTE/ year	N/A		15.57		23.04		27.34		
	>35 - 49 years	Hours/ FTE/ year	N/A		14.30		20.70				
	>49 years	Hours/ FTE/ year	N/A		12.19		15.88		21.24		
	Average Hours of Training by management level										
	Top-management	Hours/ FTE/ year	N/A	N/A	N/A	N/A	11.46	35.80	20.50	24.00	
	Senior-management	Hours/ FTE/ year	N/A	N/A	N/A	N/A	18.86	31.61	17.41	20.93	
	Middle-management	Hours/ FTE/ year	N/A	N/A	N/A	N/A	24.43	30.03	37.41	38.57	
	Non-management	Hours/ FTE/ year	N/A	N/A	N/A	N/A	18.04	20.71	25.64	27.15	
	Daily worker	Hours/ FTE/ year	N/A	N/A	N/A	N/A	15.12	17.15	12.28	12.52	
	Average Hours of Training by nationality										
	Thai	Hours/ FTE/ year	N/A		14.92		19.05	22.12	25.42	28.36	
	Other nationality (e.g. Burmese, Indonesian, Vietnamese, American, French, Italian, Polish, Portuguese, Seychellois, Kenyan, British, Malagasy)	Hours/ FTE/ year	N/A		4.89		6.81	6.00	20.38	20.14	
	Employee Training and Development Amount Spending										
	Average amount spent per FTE on training and development	Baht/ FTE/ year	1,692		1,394		341.42		2,375.70		
			N/A	N/A	1,353	1,141	334.36	357.72	2,157.87	2,529.05	
	Total investment on employees training	Million Baht	N/A	N/A	N/A	N/A	5.16	7.40	2.71	4.51	
	Average Spending of Training by age group										
	18 - 25 years	Baht/ FTE/ year	N/A		276		747.88		1,963.19		
	>25 - 35 years	Baht/ FTE/ year	N/A		1,768		2,720.52		2,625.27		
	>35 - 49 years	Baht/ FTE/ year	N/A		1,448		2,311.54				
	>49 years	Baht/ FTE/ year	N/A		832.63		1,264.78		1,021.95		
	Average Spending of Training by management level										
	Top-management	Baht/ FTE/ year	N/A		17,160.00		1,686.74	-	1,046.21	2,776.00	
	Senior-management	Baht/ FTE/ year	N/A		7,029.00		1,939.14	5,445.62	1,099.63	3,195.80	



GRI	Data	Unit	2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
	Middle-management	Baht/ FTE/ year					6,766.45	7,661.22	7,021.54	6,531.23
	Non-management	Baht/ FTE/ year		N/A		702.57	991.82	1,745.72	1,973.38	2,022.34
	Daily worker	Baht/ FTE/ year		N/A		61.19	69.39	45.20	31.68	34.38
	<b>Average Spending of Training by nationality</b>									
	Thai	Baht/ FTE/ year	N/A	N/A		1,427.10	1,821.76	2,575.64	2,184.46	2,554.92
	Other nationality (e.g. Burmese, Indonesian, Vietnamese, American, French, Italian, Polish, Portuguese, Seychellois, Kenyan, British, Malagasy)	Baht/ FTE/ year	N/A	N/A		14,736.78	1,300.00	500.00	514.66	247.84
-	<b>Employee Engagement</b>									
	<b>Employee engagement result</b>	Employee Engagement Survey (% of actively engaged employees)		-		-		72		N/A <sup>(3)</sup>
-	<b>HC ROI</b>	Baht/Baht		1.57		1.63		1.56		1.53
-	<b>% Employees represented by an independent trade union or covered by collective bargaining agreements</b>	% Employee		83.17		83.68		83.68		82.59

**Remark:**

- N/A = Not available
- No data = No data
- Not Applicable = those indicators are not relevance to the company's business.
- GRI 2-8 a. (2021) Total Workforce by Employment Type of Contractor and Other, GRI 401-2 (2016), GRI 401-3 (2016) Parental leave to be disclose in 2024 Thai Union Sustainable Report.
- <sup>(1)</sup> : Change from Middle-management in 2022
- <sup>(2)</sup> : Change from Junior-management in 2022
- <sup>(3)</sup> : Engagement survey was not conducted for 2023.

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1)</sup>
Occupational Health and Safety (2018)						
403-8 (2018), 13.19.9	Workers Covered by an Occupational Health and Safety Management System					
	Employee <sup>(2)</sup>					
	Covered by an occupational health and safety management system	Person	38,084	40,200	42,285 <sup>(3)</sup>	42,189
		%	100	100	100	100
	Covered by such a system that has been internally audited	Person	38,084	40,200	42,285 <sup>(3)</sup>	42,189
		%	100	100	100	100
	Covered by such a system that has been audited or certified by an external party	Person	38,084	40,200	42,285 <sup>(3)</sup>	42,189
		%	N/A	N/A	N/A	N/A
	Contractor <sup>(4)</sup>					
	Covered by an occupational health and safety management system	Person	61,470	39,068	222,695	109,831
		%	100	100	100	100
	Covered by such a system that has been internally audited	Person	61,470	39,068	222,695	109,831
		%	100	100	100	100
	Covered by such a system that has been audited or certified by an external party	Person	61,470	39,068	222,695	109,831
		%	100	100	100	100
Work-related injuries						
403-9 (2018), 13.19.9	Fatalities as a Result of Work-Related Injury					
	Employee	Case	0	0	0	1 <sup>(5)</sup>
	Contractor	Case	0	0	0	0
	Rate Fatalities as a Result of Work-Related Injury					
	Employee	Case/200,000 hours worked	0	0	0	0.0018
	Contractor	Case/200,000 hours worked	0	0	0	0
	High-Consequence Work-Related Injuries (Excluding Fatalities)					
	Employee	Case	2	2	2	3 <sup>(6)</sup>
	Contractor	Case	0	0	1	0
	Rate of High-Consequence Work-Related Injuries (Excluding Fatalities)					
	Employee	Case/200,000 hours worked	0.004	0.002	0.004	0.01
	Contractor	Case/200,000 hours worked	0	0	0.019	0.00
	Total Recordable Incident Case <sup>(7)</sup>					
	Employee	Case	376	311	436	293.00

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1)</sup>
	Contractor	Case	15	34	15	8.00
	Total Recordable Incident Rate (TRIR)					
	Employee	Case/200,000 hours worked	0.68	0.62	0.79	0.51
	Contractor	Case/200,000 hours worked	0.22	0.56	0.29	0.13
	Number of Working Hours <sup>(8)</sup>					
	Employee	Hours	110,113,322.00	100,071,200.05	110,124,276.32	113,886,307.69
	Data coverage	% of revenue	98	99	99	99.00
	Contractor	Hours	13,903,515.56	12,245,425.93	10,504,055.95	11,955,015.87
	Data coverage	% of revenue	98	99	99	99
	Lost Work Day (LWD) & Lost Day Rate (LDR)					
	Employee	Lost workday	2,968	2,631	2,485	1,644
		Lost workday/200,000 hours worked	5.39	5.26	4.51	2.89
	Contractor	Lost workday	191.87	187	164	92
		Lost workday/200,000 hours worked	2.76	3.05	3.12	1.54
Work-Related Ill Health						
403-10 (2018)	Number of Fatalities as a Result of Work-Related Ill Health <sup>(9)</sup>					
	Employee	Case	0	0	0	0
	Contractor	Case	0	0	0	0
	Number of Cases of Recordable Work-Related Ill Health					
	Employee	Case	0	0	0	0
	Contractor	Case	0	0	0	0
	Occupational Diseases Rate (ODR)					
	Employee	Case	0	0	0	0
		Case/200,000 hours worked	0	0	0	0
	Data coverage	% of revenue	98	99	99	99
	Contractor	Case	0	0	0	0
		Case/200,000 hours worked	0	0	0	0
	Data coverage	% of revenue	98	99	99	99
Loss Time Injury Frequency Rate: LTIFR						
	Employee	Case	264	196	183 <sup>(3)</sup>	134.00
		Case/200,000 hours worked	0.48	0.39	0.32	0.24
	Contractor	Case	16	24	10	7
		Case/200,000 hours worked	0.22	0.39	0.19	0.12
Occupational Illness Frequency Rate: OIFR						
-	Employee	Case/200,000 hours	0	0	0	0

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1)</sup>
		worked				
	Contractor	Case/200,000 hours worked	0	0	0	0

**Remark:**

- N/A = Not available
- No data = No data
- Not Applicable = those indicators are not relevance to the company's business.
- <sup>(1)</sup> Data covers offices, factories, and farms in Thailand, Indonesia, Vietnam, France, Portugal, Poland, Germany, Norway, Ghana, Seychelles, Lithuania, Italy, Ireland, Netherlands, the United Kingdom, Russian Federation, and the United States of America. The occupational health and safety data excludes retail operations.
- <sup>(2)</sup> The number of employee covers employees working in the factory.
- <sup>(3)</sup> The data has been amended from SD report 2022.
- <sup>(4)</sup> The number of contractor covers contractors working in the factory, including contractors for maintenance work, temporary contractor, and permanent contractor. The number of contractor is counted from 1 person per day.
- <sup>(5)</sup> In 2023, there was fatality case regarding to contact with moving machine. The Company has established and driven the machine risk assessment and machine improvement programs and now closely working on a comprehensive health and safety prevention program.
- <sup>(6)</sup> In 2023, there were 3 permanent disability incidents occurred in Thailand (2 incidents) and Seychelles (1 incident), respectively. The company is closely working on a comprehensive health and safety prevention program.
- <sup>(7)</sup> Total recordable incident (TRIR) including medical treatment, restricted work case, lost day case, disability and fatality)
- <sup>(8)</sup> Total working hour covers employees and contractors.
- <sup>(9)</sup> Since 2020, there was no work-related ill health incident reported from Workmen' s Compensation Fund.

## ENVIRONMENTAL PERFORMANCE

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
<b>Material</b>						
301-1 (2016)	<b>Total material used</b>	Tons	N/A	16,520	32,288.40	18,935.10
	<b>Non renewable material</b>	Tons	N/A	4,966.20	13,451.10	6,151.40
	Wood/Paper fiber packaging	Tons	N/A	4,537.00	11,375.10	5,476.3
	Plastic packaging	Tons	N/A	429.2	2,076.00	675.1
	<b>Renewable material</b>	Tons	N/A	11,553.80	18,837.30	12,783.70
	Metal packaging	Tons	N/A	10,865.00	18,064.20	12,638.4
	Glass packaging	Tons	N/A	77	773.1	145.3
	Plastic packaging	Tons	N/A	611.8	0	0
301-2 (2016)	<b>Percentage of materials used that are recycled input materials</b>	%	N/A	70	58.34	67.51
<b>Energy <sup>(4)</sup></b>						
302-1 (e) (2016)	<b>Total energy consumption within the organization</b>	GJ	4,387,944	4,352,382	4,409,020	4,232,124
302-1 (a) (2016)	<b>Total non-renewable energy</b>	GJ	2,807,560	2,753,165	2,728,479	2,538,122
	Fuel Oil (Bunker Oil)	GJ	726,432	522,192	539,254	429,805
	Natural Gas	GJ	285,944	298,299	292,836	287,586
	Diesel	GJ	35,781	20,877	45,508	85,923
	Biodiesel (B7)	GJ	54,362	45,495	91,552	89,151
	Biodiesel (B10) <sup>(5)</sup>	GJ	17,685	23,385	0	0
	LPG	GJ	205,261	235,281	231,994	226,360
	Coal	GJ	1,477,229	1,603,647	1,523,286	1,413,542
	Gasoline/ Petrol	GJ	3,348	2,504	1,909	2,269.376
	Biogasoline E10	GJ	1,518	1,485	2,140	3,484
	Biogasoline E20 <sup>(6)</sup>	GJ	0	0	0	2.11
302-1 (b) (2016)	<b>Total renewable energy</b>	GJ	239,148	250,268	375,033	489,189
	Biogas	GJ	69,451	71,657	45,485	45,997
	Wood Pellet	GJ	136,940	146,856	263,227	230,827
	Fuel wood/Wood chip	GJ	No data	No data	2,800	2,731
	Saw Dust	GJ	No data	3	4	106.64
	Palm kernel shell <sup>(6)</sup>	GJ		0	0	124,217.1
	Solar Panel	GJ	32,757	31,752	63,517	85,311
302-1 (c) (2016)	<b>Total Indirect Energy (electricity)</b>	GJ	1,341,236	1,348,949	1,305,508	1,204,813
	Steam / heating / cooling and other energy (non-renewable) purchased for consumption	GJ	1,341,236	1,351,763	1,305,508	1,204,813

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Electricity (non-renewable) purchased	MWh	372,566	374,708	365,934.83	337,920
		GJ	1,341,236	1,348,949	1,305,508	1,204,800
	Steam (non-renewable) purchased <sup>(6)</sup>	GJ	No data	0	0	13
	Cooling (non-renewable) purchased	GJ	N/A	N/A	N/A	N/A
302-2 (2016)	<b>Energy consumption outside of the organization</b>	GJ	No data	No data	No data	No data
302-3 (2016)	<b>Total Energy Intensity</b>	GJ/Ton FG	5.64	5.49	5.67	6.08
-	<b>Total finish good volume<sup>(4)</sup></b>	Tons	778,098	793,282	776,297	692,380
302-4 (2016)	<b>Total reduction of energy consumption</b>	GJ	N/A	N/A	N/A	N/A
	Fuel saving	GJ	N/A	N/A	N/A	N/A
	Total indirect Energy (electricity) saving	MWh	N/A	N/A	N/A	N/A
		GJ	N/A	N/A	N/A	N/A
302-5	<b>Reduction in energy requirements of products and services</b>	GJ	N/A	N/A	N/A	N/A
-	data coverage	% Revenue	99.8	99.7	99.5	99.7
<b>Greenhouse Gases Emission (GHGs)<sup>(4),(7),(8)</sup></b>						
305-1 (2016), 13.1.2	<b>Direct GHG emission (Scope 1)<sup>(7),(8)</sup></b>	Tons CO <sub>2eq</sub>	317,453	323,493	295,649	269,031
	Biogenic CO <sub>2</sub> emissions	Tons CO <sub>2eq</sub>	27,340	33,245	33,464	35,358
305-2 (2016), 13.1.3	<b>Indirect GHG emissions (Scope 2)<sup>(7),(8)</sup></b>	Tons CO <sub>2eq</sub>	186,852	188,119	180,713	165,305
	Market-based energy indirect (scope 2) GHG emissions <sup>(8)</sup>	Tons CO <sub>2eq</sub>	N/A	N/A	N/A	2525.75
	Location based energy indirect (scope 2) GHG emissions <sup>(8)</sup>	Tons CO <sub>2eq</sub>	186,852	188,119	180,713	162,779
305-3 (2016), 13.1.4	<b>Total Other relevant indirect GHG emission (scope 3)</b>	Tons CO <sub>2eq</sub>	N/A	4,071,680	3,555,070	4,165,375
	Scope 3 Category 1: Purchased goods and services	Tons CO <sub>2eq</sub>	N/A	3,020,096	2,455,661	3,072,215
	Scope 3 Category 2: Capital goods	Tons CO <sub>2eq</sub>	N/A	14,327	30,610	63,370
	Scope 3 Category 3: Fuel and energy related activities	Tons CO <sub>2eq</sub>	N/A	42,823	68,045	68,262
	Scope 3 Category 4: Upstream transportation & distribution	Tons CO <sub>2eq</sub>	N/A	162,303	108,441	60,551
	Scope 3 Category 5: Waste generated in operations	Tons CO <sub>2eq</sub>	N/A	13,499	7,943	9,376
	Scope 3 Category 6: Business travel	Tons CO <sub>2eq</sub>	N/A	2,315	3,503	3,635

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Scope 3 Category 7: Employee commuting	Tons CO <sub>2eq</sub>	N/A	75,999	82,671	76,155
	Scope 3 Category 8: Upstream leased assets	Tons CO <sub>2eq</sub>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Scope 3 Category 9: Downstream transportation & distribution	Tons CO <sub>2eq</sub>	N/A	139,328	167,050	254,679
	Scope 3 Category 10: Processing of sold products	Tons CO <sub>2eq</sub>	N/A	20,360	22,662	26,232
	Scope 3 Category 11: Use of sold products	Tons CO <sub>2eq</sub>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Scope 3 Category 12: End-of-life treatment of sold products	Tons CO <sub>2eq</sub>	N/A	105,564	105,461	173,784
	Scope 3 Category 13: Downstream leased assets	Tons CO <sub>2eq</sub>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Scope 3 Category 14: Franchises	Tons CO <sub>2eq</sub>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Scope 3 Category 15: Investments	Tons CO <sub>2eq</sub>	N/A	475,065	503,023	357,309
	Total biogenic CO <sub>2</sub> emissions (scope 3)	Tons CO <sub>2eq</sub>	N/A	N/A	N/A	N/A
305-4 (2016), 13.1.5	<b>GHG emission intensity (scope 1 &amp; 2)</b>	Tons CO <sub>2eq</sub>	0.65	0.64	0.61	0.63
	data coverage	%	99.8	99.7	99.5	99.7
305-5 (2016), 13.1.6	<b>Total estimated annual CO<sub>2</sub> savings</b>	Tons CO <sub>2eq</sub>	N/A	N/A	N/A	N/A
	GHG annual reduction target at fiscal year	Tons CO <sub>2eq</sub>	N/A	N/A	N/A	N/A
305-6 (2016), 13.1.7	<b>Emission of ozone-depleting substance (ODS)</b>	Tons CO <sub>2eq</sub>	No data	No data	No data	No data
-	data coverage	% Revenue	99.8	99.7	99.5	99.7
<b>NO<sub>x</sub>, SO<sub>x</sub>, and Other significant air emission<sup>(9)</sup></b>						
305-7 (2016), 13.1.8	NO <sub>x</sub>	Tons NO <sub>2</sub>	N/A	N/A	N/A	73.6
	NO <sub>x</sub> intensity	Tons NO <sub>2</sub> /Ton FG	N/A	N/A	N/A	0.00011
	SO <sub>x</sub>	Tons SO <sub>x</sub>	N/A	N/A	N/A	306.8
	SO <sub>x</sub> intensity	Tons SO <sub>2</sub> /Ton FG	N/A	N/A	N/A	0.0004
	Persistent organic pollutants (POP)	Tons POP	Not applicable	Not applicable	Not applicable	Not applicable
	POP intensity	Tons POP/Ton FG	Not applicable	Not applicable	Not applicable	Not applicable
	Volatile organic compounds (VOC)	Tons VOC	Not applicable	Not applicable	Not applicable	Not applicable
	VOC intensity	Tons VOC/Ton FG	Not applicable	Not applicable	Not applicable	Not applicable
	Hazardous air pollutants (HAP)	Tons HAP	Not applicable	Not applicable	Not applicable	Not applicable

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	HAP intensity	Tons HAP/Ton FG	Not applicable	Not applicable	Not applicable	Not applicable
	Particulate matter (PM)	Tons PM	N/A	N/A	N/A	65.7
	PM intensity	Tons PM/Ton FG	N/A	N/A	N/A	0.00009
<b>Water Withdrawal <sup>(4)</sup></b>						
303-3 (a,c) (2018), 13.7.4	<b>Total water withdrawal from all areas</b>	Mil m <sup>3</sup>	13.53	12.25	12.15	9.65
	<b>Fresh water (TDS ≤1,000 mg/L)</b>	Mil m <sup>3</sup>	8.81	8.75	9.55	8.27
	Surface water	Mil m <sup>3</sup>	1	0.78	0.85	0.54
	Groundwater	Mil m <sup>3</sup>	1.49	2.37	2.41	2.23
	Seawater	Mil m <sup>3</sup>	0	0	0	0
	Produced water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Rainwater collected by organization	Mil m <sup>3</sup>	0.26	0.23	0.22	0.34
	<b>Third party water <sup>(10)</sup></b>	Mil m <sup>3</sup>	6.05	5.38	6.06	5.16
	Surface municipal water	Mil m <sup>3</sup>	6.05	5.38	6.06	5.16
	Ground municipal water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	<b>Other water source from manufacturing process<sup>(11)</sup></b>	Mil m <sup>3</sup>	0	0	0	0.0084
	data coverage	% Revenue	99.8	99.7	99.5	99.7
	<b>Other water (TDS &gt;1,000 mg/L Total Dissolved Solids)</b>	Mil m <sup>3</sup>	4.73	3.5	2.60	1.38
	Surface water	Mil m <sup>3</sup>	0.01	0.02	0.01	0.01
	Groundwater	Mil m <sup>3</sup>	0	0	0	0
	Seawater	Mil m <sup>3</sup>	4.72	3.48	2.59	1.37
	Produced water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Rainwater	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	<b>Third party water</b>	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Surface municipal water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Ground municipal water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	data coverage	% Revenue	99.8	99.7	99.5	99.7
303-3 (b,c) (2018), 13.7.4	<b>Total water withdrawal from water stress area<sup>(12),(13)</sup></b>	Mil m <sup>3</sup>	N/A	N/A	0.21	0.22
	<b>Fresh water (TDS ≤1,000 mg/L)</b>	Mil m <sup>3</sup>	N/A	N/A	0.21	0.22
	Surface water	Mil m <sup>3</sup>	N/A	N/A	0	-
	Groundwater	Mil m <sup>3</sup>	N/A	N/A	0	-



GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Seawater	Mil m <sup>3</sup>	N/A	N/A	0	0
	Produced water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Rainwater	Mil m <sup>3</sup>	N/A	N/A	0	-
	<b>Third party water</b>	Mil m <sup>3</sup>	N/A	N/A	0.21	0.22
	Surface municipal water	Mil m <sup>3</sup>	N/A	N/A	0.21	0.22
	Ground municipal water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	data coverage	% Revenue	99.8	99.7	99.5	99.7
	<b>Other water (TDS &gt;1,000 mg/L Total Dissolved Solids)</b>	Mil m <sup>3</sup>	N/A	N/A	0	-
	Surface water	Mil m <sup>3</sup>	N/A	N/A	0	-
	Groundwater	Mil m <sup>3</sup>	N/A	N/A	0	0
	Seawater	Mil m <sup>3</sup>	N/A	N/A	0	0
	Produced water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Rainwater	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	<b>Third party water</b>	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Surface municipal water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	Ground municipal water	Mil m <sup>3</sup>	Not applicable	Not applicable	Not applicable	Not applicable
	data coverage	% Revenue	99.8	99.7	99.5	99.7
	<b>Total Water recycled &amp; Water reused</b>	Mil m <sup>3</sup>	1.95	1.29	1.58	1.88
		% of total water withdrawal	14.4	10.53	13.16	19.50
-	Water reused	Mil m <sup>3</sup>	0.96	1.15	1.18	1.22
-	Water recycled	Mil m <sup>3</sup>	0.99	0.14	0.40	0.66
<b>Water Discharged</b> <sup>(4),(14),(15),(16)</sup>						
303-4 (2018), 13.7.5	<b>Total water discharged to all areas</b>	Mil m <sup>3</sup>	3.49	7.87	8.20	5.56
	<b>Fresh water (TDS ≤1,000 mg/L)</b>	Mil m <sup>3</sup>	N/A	N/A	N/A	N/A
	Surface water	Mil m <sup>3</sup>	1.07	4.48	4.42	3.56
	Groundwater	Mil m <sup>3</sup>	0	0	0	0
	Seawater	Mil m <sup>3</sup>	1.64	2.37	2.89	1.29
	<b>Third party organization for further treatment process</b>	Mil m <sup>3</sup>	0.78	1.02	0.89	0.71
	data coverage	% Revenue	99.8	99.7	99.5	99.7
	<b>Other water (TDS &gt;1,000 mg/L Total Dissolved Solids)</b>	Mil m <sup>3</sup>	N/A	N/A	N/A	N/A
	Surface water	Mil m <sup>3</sup>	0	0	0	0

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Groundwater	Mil m <sup>3</sup>	0	0	0	0
	Seawater	Mil m <sup>3</sup>	1.64	2.37	2.89	1.29
	<b>Third party organization for further treatment process</b>	Mil m <sup>3</sup>	N/A	N/A	N/A	0
	data coverage	% Revenue	99.8	99.7	99.5	99.7
303-4(b) 2018, 13.7.5	<b>Total water discharged to all areas with water stress</b>	Mil m <sup>3</sup>	N/A	N/A	0.2	0.20
	Fresh water (TDS ≤1,000 mg/L)	Mil m <sup>3</sup>	N/A	N/A	N/A	0.20
<b>Water Consumption <sup>(4)</sup></b>						
303-5 (2018), 13.7.6	<b>Total water consumption from all areas</b> (Total water withdrawal - Total water discharge)	Mil m <sup>3</sup>	10.05	4.38	3.95	4.10
	<b>Total water consumption from all areas with water stress</b> (Total water withdrawal - Total water discharge)	Mil m <sup>3</sup>	N/A	N/A	0.01	0.01
-	<b>Water Consumption intensity</b>	m <sup>3</sup> /Ton FG	12.91	5.52	5.09	5.92
-	data coverage	% Revenue	99.8	99.7	99.5	99.7
<b>Waste generated <sup>(8)</sup></b>						
306-3 (2020), 13.8.4	<b>Total Waste generated</b>	Tons	59,615	77,903	68,118	64,551
	<b>Total non-hazardous waste generated</b>	Tons	58,472	74,986	67,214	63,494
	<b>Total hazardous waste generated</b>	Tons	1,143	2,917	904	1,057
-	data coverage	% Revenue	99.8	99.7	99.5	99.7
<b>Waste diverted from disposal <sup>(4)</sup></b>						
306-4 (2020), 13.8.5	<b>Total Waste diverted from disposal</b>	Tons	34,244	48,847	43,609	38,309
	<b>Total Non-Hazardous waste diverted from disposal</b>	Tons	33,764	48,477	42,704	37,794
	Preparation for reuse	Tons	3,737	2,362	2,587	2,080
	Onsite	Tons	0	0	0	
	Offsite	Tons	3,737	2,362	2,587	2,080
	Recycling	Tons	20,785	29,643	24,378	18,499
	Onsite	Tons	0	0	0	0
	Offsite	Tons	20,785	29,643	24,378	18,499
	Other recovery operations: Composting	Tons	9,242	16,472	15,715	17,216
	Onsite	Tons	0	0	0	0
	Offsite	Tons	9,242	16,472	15,715	17,216

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Other: Site reclamation <sup>(17)</sup>	Tons	0	0	24	0
	Onsite	Tons	0	0	24	0
	Offsite	Tons	0	0	0	0
	<b>Total Hazardous Waste diverted from disposal</b>	Tons	480	370	905	515
	Preparation for reuse	Tons	225	243	264	229
	Onsite	Tons	0	0	0	0
	Offsite	Tons	225	243	264	229
	Recycling	Tons	254	127	135.1	285
	Onsite	Tons	0	0	0	0
	Offsite	Tons	254	127	135.1	285
	Other recovery operations: Composting	Tons	0	0	10	0
	Onsite	Tons	0	0	0	
	Offsite	Tons	0	0	10	0
<b>Waste directed to disposal <sup>(8)</sup></b>						
306-5 (2020), 13.8.6	<b>Total waste directed to disposal</b>	Tons	25,371	23,072	24,959	26,035
	<b>Total Non-hazardous waste directed to disposal</b>	Tons	24,708	21,110	24,513	25,700
	Recovery, including Energy Recovery	Tons	1,897	8,006	9,602	10,900
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1,897	8,006	9,602	10,900
	Incineration without Heat Recovery (i.e. Mass Burn)	Tons	551	295	232	147
	Onsite	Tons	0	0	0	0
	Offsite	Tons	551	295	232	147
	Landfilling	Tons	13,407	12,707	14,679	14,537
	Onsite	Tons	0	0	0	0
	Offsite	Tons	13,407	12,707	14,679	14,537
	Other disposal operations: On-site Storage	Tons	0	5,399	0	0
	Onsite	Tons	0	5,399	0	0
	Offsite	Tons	0	0	0	0
	Other disposal operations: Other Disposal Methods <sup>(18)</sup>	Tons	8,853	102	0.10	115
	Onsite	Tons	0	0	0	0
	Offsite	Tons	8,853	102	0.10	115.12
	<b>Total hazardous waste directed to disposal</b>	Tons	663	1,962	445	336
	Recovery, including Energy Recovery	Tons	210	293	345	310
	Onsite	Tons	0	0	0	0

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Offsite	Tons	210	293	345	310
	Incineration without Heat Recovery (i.e. Mass Burn)	Tons	5	45	31	10
	Onsite	Tons	0	0	0	0
	Offsite	Tons	5	45	31	10
	Landfilling	Tons	420	1,624	2	2
	Onsite	Tons	0	0	0	
	Offsite	Tons	420	1,624	2	2
	Other disposal operations: On-site Storage	Tons	0	585	50	207
	Onsite	Tons	0	585	50	207
	Offsite	Tons	0	0	0	0
	Other disposal operations: Other Disposal Methods <sup>(18)</sup>	Tons	28	0	68	13
	Onsite	Tons	0	0	0	0
	Offsite	Tons	28	0.36	68	13
-	Waste disposed by landfill and incineration	Tons	16,491	22,970	24,891	25,907
-	Waste disposed by landfill and incineration per production unit	kg/Ton FG	21	29	32	37
<b>Food Loss <sup>(4),(19)</sup></b>						
-	Total weight of food loss from operations (A)	Tons	118,087	124,059	139,651	125,970
	Total weight of food loss volumes used for alternative purposes (B)	Tons	116,458	122,835	138,659	125,015
	Total food loss discarded (A - B)	Tons	1,628	1,224	992	955
	Food loss intensity	Tons/Bath Billion	15.05	10.84	8.35	9.01
	data coverage	% Revenue	95.38	100	100	100
<b>Packaging Materials</b>						
2.3.3	Total weight of wood/paper fiber packaging	Tons	21,021.01	4,537.20	11,375.10	5476.3
	Recycled and/or certified wood/paper fiber	% of total weight	67.00	73.18	55.72	59.27
	Total weight of metal packaging	Tons	25,824.45	10,865.02	18,064.20	12638.40
	Recycled metal	% of total weight	67.00	48.31	48.45	38.29
	Total weight of glass packaging	Tons	736.41	76.68	773.1	145.3
	Recycled glass	% of total weight	67.00	75.00	0.81	0
<b>Plastic Packaging</b>						
2.3.4	<b>Total weight of all plastic packaging</b>	Tons	1,957.10	1,041.30	2,076.00	675.1

GRI	Data	Unit	2020	2021	2022	2023 <sup>(1),(2),(3)</sup>
	Percentage of recyclable plastic packaging	% of the total weight of all plastic packaging	33.00	58.77	46.55	65.87
	Percentage of compostable plastic packaging	% of the total weight of all plastic packaging	0	0	0	0
	Percentage of recycled content within your plastic packaging	% of the total weight of all plastic packaging	0	3.52	1.29	3.46
	Data Coverage	% of cost of goods sold	94.00	90.00	90.00	90.00

**Remark:**

- N/A = Not available (the data is not ready to disclose in the reporting year)
- No data = No data
- Not Applicable = those indicators are not relevance to the company's business.
- <sup>(1)</sup> Scope of Data:
  1. Data covers the following operations:
    - Factories in Thailand, Indonesia, Vietnam, France, Portugal, Poland, Germany, Norway, Ghana, Seychelles, Lithuania, Russia Federal, and the United States of America.
    - Offices and Farms in Thailand
  2. The environmental data excludes the following operations:
    - Retail operations
    - Offices located outside Thailand

The data reporting is in progress and expected to report in the next 2 reporting years.
- <sup>(2)</sup> The performance data of following farms and hatcheries operations is not included in the performance data 2023 since those operations have been ceased since 2022.
  - Thai Union Hatchery Co.,Ltd. (7 operations)
  - TMK Farm Co.,Ltd. (2 operation)
- <sup>(3)</sup> In 2023, The following manufacturing operation has been ceased since April 2023 and the performance data were reported until June 2023.
  - Hawesta-Feinkost Hans Westphal GmbH & Co. KG, Germany
- <sup>(4)</sup> The following performance data have been amended from the performance data reported in SD report 2022 for more accuracy:
 

Reporting year 2020-2021:

  - Waste directed to disposal
  - Non hazardous waste - composting category from onsite to offsite

Reporting year 2022

  - Total finish good volume
  - Energy consumption
  - Greenhouse gases
  - Water withdrawal
  - Water discharged
  - Water consumption
  - Waste generated
  - Waste diverted from disposal
  - Waste directed to disposal
  - Non hazardous waste - composting category from onsite to offsite
- <sup>(5)</sup> Biodiesel B10 is no longer used in 2022
- <sup>(6)</sup> The following energy flues have been used in TU's operations since 2023.
  - Biogasoline E20
  - Palm kernel shell
  - Steam purchased from other organization.

- <sup>(7)</sup> The data of GHG emission are calculated based on the amendment of GHG emission calculation methodology in 2021. The following key amendments of GHG emission calculation methodology are:
  - Amendment of emission factors for GHG scope 1 emission aligning with Thailand Greenhouse Gases Management Organization (TGO), GHG Protocol, 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories, and 2013 IPCC Fifth Assessment Report (AR5).
  - Amendment of emission factors for GHG scope 2 (electricity) by country aligning with GHG Protocol: Green-e Energy Residual Mix Emissions Rates (2018), UNFCCC Harmonized Grid Emission factor data set version 3.0 (December 2021), Institute for Global Environmental Strategies (2022), and TGO.
  - Amendment of GHG emission calculation methodology for wastewater treatment plant, refrigerant, and domestic septic tank regarding to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 5 Waste.
- <sup>(8)</sup> GHG Emission trends:
  1. The GHG emission trend in 2022 decreased from GHG emission in 2021 due to the following improvement:
    - Improve measurement method of methane generated from wastewater treatment plant by using actual meter reading instead of calculation.
    - Change wastewater treatment process in factory in Vietnam.
    - Change unit of natural gas consumption from m<sup>3</sup> to kWh, which can result in the emission factor adjustment to align with the accurate natural gas consumption unit.
    - Adjust scope of septic tank calculation.
  2. The GHG emission trend in 2023 decreased from GHG emission in 2022 due to the following improvement:
    - Adjust emission factor of electricity from location-based to be market-based emission factor in the operations located in France and Poland.
    - Increase electricity consumption from solar panels.
    - Change energy fuels from non-renewable source to renewable sources in steam generation process (i.e. wood pellet, wood chip, palm kernel shell)
    - Increase energy fuels from fossil fuels to biofuels in stationary combustion and mobile combustion activities.
- <sup>(9)</sup> The initial reporting of significant emissions e.g. NO<sub>x</sub>, SO<sub>x</sub> and TSP have been placed in the performance year 2023.
- <sup>(10)</sup> The third-party water includes desalinated water produced from seawater by private utilities and municipal water produced by the public utilities.
- <sup>(11)</sup> Other water source is water generated from manufacturing process (e.g. ice packed from freezed raw materials). The Company will monitor the volume of this water withdrawal source and improve in the next reporting year.
- <sup>(12)</sup> The water stress assessment has been conducted by using the AQUEDUCT provided by the Water Resources Institute (WRI).
- <sup>(13)</sup> According to the AQUEDUCT, water stress area has been evaluated based on the country level. The result of water stress area has been classified as High level (40%-80%) and Extremely High level (>80%)
- <sup>(14)</sup> Water discharge: The treated wastewater from TU's operations is discharged to the following destinations
  1. Surface water
  2. Seawater
  3. Third party organization for further treatment process  
Third party organization for further treatment process includes central wastewater treatment process organized by local authority.
- <sup>(15)</sup> The information of water discharged to fresh water and other water is not available since no information is available for TDS values of wastewater discharged to the offsite.
- <sup>(16)</sup> In 2023, Major equipment upgrade in the wastewater treatment facilities have been started in Ghana and Seychelle to increase efficiency and strengthen compliance that has been acknowledged and approved by local authorities.
- <sup>(17)</sup> Waste for site reclamation has been diverted from composting waste and reported in 2022.
- <sup>(18)</sup> In 2020-2022, "Other Disposal Methods" waste is not classified as any specific waste disposal methods listed in the table.
- <sup>(19)</sup> Food loss:
  - The food loss data in 2022 have been amended from the performance data reported in SD report 2022.
  - Regarding to Thai Union's Commitment on Food Loss & Waste Reduction, the Company has set a target of reducing food loss in ambient, frozen and chilled seafood operations by 50 percent by 2025, compared to a 2021 baseline.
  - Food loss categories from Company's operations include food scraps, by products, and inedible parts of raw materials, such as tuna, salmon, shrimp, and other seafood species.
  - The scope of food loss data does not include the food retail operations.
  - Intensity is calculated from Ton of food loss discarded (A-B), divided by Revenue from ambient, frozen and chilled seafood operations that manufacture products intended for human consumption.
  - As food loss definition does not cover products intended for non-human consumption, revenue from Thai Union Feedmill PCL. (TFM) is excluded from the denominator.