



SUSTAINABILITY PERFORMANCE DATA

PTT GLOBAL CHEMICAL PUBLIC COMPANY LIMITED

SUSTAINABILITY PERFORMANCE DATA

Financial Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
201-1 (2016)	Direct Economic Value Generated					
	Sale Revenue	Million Baht	326,270	465,128	678,267	616,635
	Revenues from sale of goods and rendering of services	Million Baht	329,291	468,953	683,954	621,631
	Net sales plus revenues from financial investments and sales of assets ¹	Million Baht	329,653	480,182	684,968	625,647
	Economic Value Distributed					
	Employee wages ² and benefits ³	Million Baht	14,718	15,172	8,746	12,868
	Operating cost ⁴	Million Baht	331,975	433,402	668,947	618,411
	Payments to government ⁵ : Gross taxes	Million Baht	613	4,336	3,346	1,729
	Payments to providers of capital ⁶ : Dividends paid	Million Baht	5,026	14,080	11,746	1,269
	Community investments	Million Baht	104	323	77.27	56.54
	Economic value retained	Million Baht	-22,283	23,151	-6,802	-8,686
204-1 (2016)	Proportion of spending on local suppliers in Thailand	%	82	78	81	81

¹ Net sales plus revenues from financial investment include revenues from sale of goods and rendering of services, and investment income

² Total Wages comprises employee salaries, including amounts paid to government institutions (such as employee taxes, levies, and unemployment funds) on behalf of employees. Non-employees working in an operational role are normally not included here, but rather under operating costs as a service purchased.

³ Total benefits include regular contributions (such as to pensions, insurance, company vehicles, and private health), as well as other employee support such as housing, interest free loans, public transport assistance, educational grants, and redundancy payments. They do not include training, costs of protective equipment, or other cost items directly related to the employee's job function.

⁴ Operating Cost includes cost of sale of goods and rendering of services, selling and distribution expenses and, and administrative expenses

⁵ All of the organization's taxes (include corporate, income, and property) plus related penalties paid at the international, national, and local level, excludes deferred taxes.

⁶ Dividend to all shareholders, plus interest payments made to providers of loans. (Interest payments made to providers of loans can include; interest on all forms of debt and borrowings and arrears of dividends due to preferred shareholders)

Manufacture Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
2-5 (2021)	Return on Environmental Investment					
	Total expenditures	Million Baht	1,504	4,322	1,453	2,039
	Capital investments	Million Baht	1,119	3,099	546	961
	Operating expenses	Million Baht	385	1,223	907	1,078
	Waste disposal, emission treatment, and remediation costs	Million Baht	344	1,107	840	1,009
	Prevention and environmental management costs	Million Baht	41	115	67	69
	Savings, cost avoidance, income, tax incentives, etc.	Million Baht	396	432	494	585
	Operations covered (by revenue, production volume, or employees, etc.)	% of operation covered	100	100	100	100

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Worker										
	Total worker ¹	Person	10,239		11,036		11,303		10,521		
		Person	7,580	2,659	7,978	3,058	8,135	3,168	7,540	2,981	
2-7 (2021)	Total employee ²	Person	9,246		9,037		7,668		7,425		
		Person	6,911	2,335	6,699	2,338	5,586	2,082	5,401	2,024	
2-8 (2021)	Contractor ^{3 4}	Person	982		1,970		3,632		3,096		
		Person	662	320	1,270	700	2,546	1,086	2,139	957	
	Other ⁴	Person	11		29		3		0		
		Person	7	4	9	20	3	0	0	0	
2-7 (2021)	Total Employee by Area										
	Rayong	Person	6,444	1,567	6,296	1,563	5,118	1,322	4,955	1,270	
	Bangkok	Person	464	767	401	774	420	755	394	748	
	Other provinces	Person	3	1	2	1	48	5	52	6	
	Total Employee by Employment Contract and by Area										
	Permanent contract ⁵	Person	5,438	2,024	5,525	2,049	5,580	2,082	5,401	2,024	
	Rayong	Person	4,998	1,268	5,127	1,288	5,118	1,321	4,955	1,270	
	Bangkok	Person	437	755	396	760	414	756	394	748	
	Other provinces	Person	3	1	2	1	48	5	52	6	
	Temporary contract ⁶	Person	1,473	311	1,174	289	6	0	0	0	
	Rayong	Person	1,446	299	1,167	275	0	0	0	0	
	Bangkok	Person	27	12	7	14	6	0	0	0	
	Other provinces	Person	0	0	0	0	0	0	0	0	
	Non-guaranteed hours employees	Person	*	*	*	*	0	0	0	0	
	Rayong	Person	*	*	*	*	0	0	0	0	
	Bangkok	Person	*	*	*	*	0	0	0	0	
	Other provinces	Person	*	*	*	*	0	0	0	0	
	Total Employee by Employment Type										
	Full-time	Person	6,891	2,330	6,699	2,338	5,586	2,082	5,401	2,024	
	Rayong	Person	*	*	*	*	5,118	1,321	4,955	1,270	
	Bangkok	Person	*	*	*	*	420	756	394	748	
	Other provinces	Person	*	*	*	*	48	5	52	6	
	Part-time	Person	20	5	0	0	0	0	0	0	
	Rayong	Person	*	*	*	*	0	0	0	0	
	Bangkok	Person	*	*	*	*	0	0	0	0	
	Other provinces	Person	*	*	*	*	0	0	0	0	
405-1 (2016)	Total Employee by Age Group										
	<30 years	% of total employee	20.88		18.20		13.90		12.50		
		Person	1,931		1,645		1,065		928		

¹ Total worker is total employee including contractor and other persons working for GC Group.

² Total employee is total workforce for GC Group.

³ Worker (exclude employee) refers to significant workers that are contractors.

⁴ Workers who are not employees

⁵ Permanent contractor is a permanent employment contract is a contract with an employee for full-time or part-time work for an indeterminate period.

⁶ Temporary contract is of limited duration and terminated by a specific event, including the end of a project or work phase or return of replaced personnel.

* To be updated in the end of July 2024

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
		% of total employee	15.04	5.84	12.97	5.23	9.73	4.16	8.90	3.60	
		Person	1,391	540	1,172	473	746	319	661	267	
	30 - 50 years	% of total employee	66.22		67.53		68.88		69.00		
		Person	6,123		6,103		5,282		5,123		
		% of total employee	49.31	16.92	49.46	18.07	49.39	19.50	48.96	20.04	
		Person	4,559	1,564	4,470	1,633	3,787	1,495	3,635	1,488	
	>50 years	% of total employee	12.89		14.26		17.23		18.51		
		Person	1,192		1,289		1,321		1,374		
		% of total employee	10.39	2.50	11.70	2.57	13.73	3.50	14.88	3.62	
		Person	961	231	1,057	232	1,053	268	1,105	269	
	Total Employee by Employee Category (Level)										
	Executive (Level 13-18)	% of total employee	0.87	0.19	0.52	0.13	0.73	0.23	0.69	0.23	
		Person	80	18	47	12	56	18	51	17	
Middle management (Level 10-12)	% of total employee	6.95	3.08	7.04	3.00	8.02	4.17	9.59	4.30		
	Person	643	285	636	271	615	320	712	319		
Senior (Level 8-9)	% of total employee	11.72	5.79	12.50	6.63	17.55	8.79	18.96	9.56		
	Person	1,084	535	1130	599	1,346	674	1,408	710		
Employee (Level 7 and Below)	% of total employee	41.86	13.22	41.63	13.48	46.54	13.95	43.46	13.17		
	Person	3,870	1,222	3,762	1,218	3,569	1,070	3,227	978		
Unclassified ¹	% of total employee	13.35	2.97	12.44	2.63	0	0	0.04	0		
	Person	1,234	275	1,124	238	0	0	3	0		
Total Employee by Nationality											
Thai	% of total employee	99.67		99.75		99.74		99.74			
	Person	9,153		9,014		7,648		7,406			
Japanese	% of total employee	0.16		0.15		0.14		0.19			
	Person	15		14		11		14			
American	% of total employee	0.04		0.01		0		0			
	Person	4		1		0		0			
German	% of total employee	0.02		0		0		0			
	Person	2		0		0		0			
Turkey	% of total employee	0.02		0.01		0.01		0			
	Person	2		1		1		0			
France	% of total employee	0.01		0.01		0.03		0.01			
	Person	1		1		2		1			
Netherlands	% of total employee	0.01		0.01		0.01		0			
	Person	1		1		1		0			
Others	% of total employee	0.05		0.06		0.07		0.05			
	Person	5		5		5		4			
Total Management Employee by Nationality											
Thai	% of total management employee	98.69		98.96		98.51		98.54			
	976			994		1,083					
Japanese	% of total management employee	0.91		0.83		1.09		1.18			

¹ Unclassified means employees who serve the Company on contract as advisors, experts and specialists.

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
		Person		9	8		11		13		
	American	% of total management		0.10	0		0		0		
		employee									
	German	Person		0.10	0		0		0		
		% of total management			0		0		0		
	Turkey	employee		0	0		0		0		
		Person			0		0		0		
	France	% of total management		0.10	0.01		0.20		0.18		
		employee									
	Netherlands	Person		0.10	1		2		2		
		% of total management			0.01		0.10		0		
	Others	employee		0	1		1		0		
		Person			0		0.10		0.09		
		Person		0	0		1		1		
	People with Disability										
	People with Disability	% of total employee		0.054		0.11		0.12		0.04	
	Person	5		10		11		3			
401-1	New Employee										
(2016)	New employee	Person	793		371		372		300		
			591	202	202	169	231	141	177	123	
	New hire rate	% of total employees	8.58		4.11		4.85		4.04		
			6.39	2.18	2.24	1.87	3.01	1.84	2.38	1.66	
New Employee by Area											
	Rayong	Person	554	170	178	98	193	90	155	74	
		% of total employees	5.99	1.84	1.97	1.08	2.52	1.17	2.09	1.00	
	Bangkok	Person	37	32	24	71	38	50	22	49	
		% of total employees	0.40	0.35	0.27	0.79	0.50	0.65	0.30	0.66	
	Other provinces	Person	0	0	0	0	0	1	0	0	
		% of total employees	0	0	0	0	0	0.01	0.00	0.00	
New Employee Hire by Age Group and Gender											
<30 years	Person	269	125	111	101	106	74	81	52		
		% of total employees	2.91	1.35	1.23	1.12	1.38	0.97	1.09	0.70	
30 - 50 years	Person	232	64	77	66	120	67	89	70		
		% of total employees	2.51	0.69	0.85	0.73	1.56	0.87	1.20	0.94	
>50 years	Person	90	13	14	2	5	0	7	1		
		% of total employees	0.97	0.14	0.15	0.02	0.07	0	0.09	0.01	
Turnover											
Total employee turnover rate	Person	583		346		433		403			
		437	146	236	110	270	163	255	148		
	% of total employees	6.31		3.83		5.65		5.43			
		4.73	1.58	2.61	1.22	3.52	2.13	3.43	1.99		
Voluntary employee turnover rate	Person	216		268		361		316			

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
			133	83	172	96	214	147	191	125
		% of total employees	2.34		2.97		4.71		4.26	
			1.44	0.90	1.90	1.06	2.79	1.92	2.57	1.68
	Turnover by Age Group and Gender									
	< 30 years	Person	117	49	57	34	64	50	39	42
		% of total employees	1.27	0.53	0.63	0.38	0.83	0.65	0.53	0.57
	30 - 50 years	Person	242	70	122	60	152	91	126	80
		% of total employees	2.62	0.76	1.35	0.66	1.98	1.19	1.70	1.08
	> 50 years	Person	78	27	57	16	54	22	90	26
		% of total employees	0.84	0.29	0.63	0.18	0.70	0.29	1.21	0.35
	Turnover by Area and Gender									
	Rayong	Person	405	104	199	55	238	93	203	88
		% of total employees	4.38	1.12	2.20	0.61	3.10	1.21	2.73	1.19
	Bangkok	Person	32	42	34	55	28	70	46	59
		% of total employees	0.35	0.46	0.38	0.61	0.37	0.91	0.62	0.79
	Other provinces	Person	0	0	3	0	4	0	6	1
		% of total employees	0	0	0.03	0	0.05	0	0.08	0.01
	Percentage of open positions filled by internal candidates	%	29.00		48.00		71.00		74.00	
	Average hiring cost / FTE in the last fiscal year	Baht/FTE	50,000		32,148		38,000		37,283	
401-2	Parental Leave									
(2016),	Number of employees entitled to parental	Person	6,911	2,335	6,699	2,338	5,023	2,041	4,886	2,024
401-3	leave									
(2016)	Number of employees taking parental	Person	764	253	83	117	82	97	132	68
	leave									
	Number of employees returning to work after parental leave	Person	735	277	80	116	82	96	127	65
	Number of employees returning to work after parental leave who were still employed for 12 months after returning	Person	733	249	80	115	79	94	127	64
	Employee returning to work retention rate	%	95.94	98.42	96.39	98.29	96.34	96.91	96.21	94.12
404-1	Training and Development									
(2016)	Average hours per FTE of training and development	Hours/ person/ year	46.18		31.76		37.92		38.68	
			55.00	38.00	42.84	122.75	33.21	32.03	40.8	33.4
	Average amount spent per FTE on training and development	Baht/ person/ year	14,756		14,887		17,357		13,241	
	Total investment on employees training	Million Baht	109	27	99.73	34.80	94.05	38.59	73	25
	Average Hours of Training by Management Level and Gender									
	Average hours of training by management level	Hour /person /year	55	38	32.35	30.05	17.13	15.06	31.1	22.4
	Executive (Level 13-18)	Hour /person /year	33	24	97.80	35.21	14.44	8.66	26.2	6.1
	Middle management (Level 10-12)	Hour /person /year	44	43	30.29	32.87	17.28	13.00	24.8	23.7
	Senior (Level 8-9)	Hour /person /year	56	40	70.90	53.28	24.02	18.50	42.8	25.5
	Employee (Level 7 and below)	Hour /person /year	74	44	23.08	18.79	121.27	14.42	30.8	27.2

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Average hours of training by employee category (function) and gender										
	Average hours of training by employee category (function)	Hour /person /year	*	*	*	*	14.62	41.37	24.4	20.2	
	Technical function	Hour /person /year	*	*	*	*	91.79	61.64	50.0	40.9	
	Administrative	Hour /person /year	*	*	*	*	4.94	6.59	7.6	8.5	
	Production	Hour /person /year	*	*	*	*	8.78	47.68	22.9	12.3	
	Support function	Hour /person /year	*	*	*	*	15.36	36.79	17.0	19.2	
	Average Hours of Training by Type of Training										
	Resilience and Agility (Support for business for expansion)	Hour /person/year	11.7		14.6		10.0		14.01		
	Leader	Hour /person/year	11.8		2		8.1		44.98		
	Safety	Hour /person/year	9.6		3.5		16.6		200.96		
	Technical	Hour /person/year	57.6		3.2		7.7		25.56		
	Others	Hour /person/year	11.1		0.4		8.4		200.39		
	Average Spent of Training by Management Level										
	Executive (Level 13-18)	Baht/person /year	12,062.45		56,484.43		10,382.29		18,152.01		
	Middle management (Level 10-12)	Baht/person /year	10,802.63		14,321.61		9,302.68		9,561.52		
	Senior (Level 8-9)	Baht/person /year	16,913.78		35,352.49		9,230.26		7,911.36		
	Employee (Level 7 and below)	Baht/person /year	11,617.11		9,000.88		4,805.35		7,013.72		
	Average Spent of Training by Type of Training										
	Resilience and Agility (Support for business for expansion)	Baht/person/year	291,591		3,560		3,568		867.48		
	Leadership	Baht/person/year	15,648		1,668		11,553		5,049.09		
	Occupational Health and Safety	Baht/person/year	14,799		478		2,968		1,795.37		
	Technical	Baht/person/year	4,828		2,135		3,320		2,616.68		
	Others	Baht/person/year	8,082		595		5,402		1,462.38		
201-1 (2016)	Quantitative financial benefit of human capital investment over time	Million Baht	135		164		127		188.65		
	(a) Total Revenue	Million Baht	326,270		465,128		678,267		617,918		
	(b) Total Operating expenses	Million Baht	331,975		433,402		668,947		19,244		
	(c) Total employee-related expense (Salaries+Benefits)	Million Baht	14,718		15,172		8,746		9,108		
	Resulting HC ROI: (total revenue - (total operating expenses - total employee related expenses)) / total employee related expenses	-	0.61		3.09		2.07		67		
404-3 (2016)	Type of Performance Appraisal										
	Management by objectives: systematic use of agreed measurable targets by line superior	% of all employees	100		100		100		100		
	Multidimensional performance appraisal	% of all employees	100		100		100		100		
	Formal comparative ranking of employees within one employee category	% of all employees	100		100		100		100		
-	Employee Engagement										
	Employee engagement result	% of actively engaged employees	75		72		65		65		
			82	59	72	56	72	47	71	50	

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Employee engagement target	% of actively engaged employees	72		75		75		72		
	Coverage	% of employees who responded to the survey	93		98		97		98		
	Employee Engagement by Age Group and Gender										
	Under 25 years	%of actively engaged employees	84	75	53	84	NA	80	NA		
	25 - 34 years	%of actively engaged employees	68	65	43	62	34	65	43		
	35 - 44 years	%of actively engaged employees	72	71	52	72	45				
	45 - 54 years	%of actively engaged employees	82	80	70	78	62	72	62		
	55 years and above	%of actively engaged employees	75	76	78	75	69	71	65		
	404-3	Employee Receiving Regular Performance and Career Development Reviews (Excl. People in Unclassified Group) by level									
	(2016)	Executive (Level 13-18)	Person	80	18	31	10	56	18	51	17
	% of total executive employee		100	100	52.54	16.95	100	100	100	100	
	Middle management (Level 10-12)	Person	643	285	590	259	615	320	712	319	
		% of total middle management employee	100	100	65.05	28.56	100	100	100	100	
	Senior (Level 8-9)	Person	1,084	535	1121	565	1,346	674	1,408	710	
		% of total senior employee	100	100	64.84	32.68	100	100	100	100	
	Employee (Level 7 and below)	Person	3,780	1,222	3,432	1,084	3,569	1,070	3,227	978	
		% of total employee (level 7 and below)	100	100	68.92	21.77	100	100	100	100	
405-1	Gender Diversity and Equal Remuneration										
(2016)	Women in workforce	Person	2,335		2,338		2,082		2,024		
		% of total workforce	25.25		25.87		27.00		27.26		
		% of target at fiscal year	25		25		25		25		
	Women in management positions	Person	303		283		338		304		
		% of total management workforce	29.53		29.3		33		28		
		% of target at fiscal year	25		25		25		25		
	Women in top management positions	Person	18		12		18		17		
		% of total top management positions	18.37		20.34		24		25		
		% of target at fiscal year	18		18		20		20		
	Women in junior management positions	Person	285		271		320		319		

Human Capital

GRI	Required Data	Unit	Data Collection Period									
			2020		2021		2022		2023			
			Male	Female	Male	Female	Male	Female	Male	Female		
		% of total junior management positions	30.71		30		34		31			
		% of target at fiscal year	25		30		25		25			
	Women in management positions in revenue generating functions e.g. Sales, Marketing, Operation and BD that under BU.	Person	71		85		124		98			
		% of total managers in revenue generating functions	18.49		14.98		21		13			
		% of target at fiscal year	18		13		15		15			
	Women in STEM-related positions ¹	Person	1,089		1,202		983		1,264			
		% of total STEM positions	18		18.98		20		24			
		% of target at fiscal year	18		15		15		15			
	Number of women on board of directors/supervisory board	Person	2		2		2		1			
		%	13.33		13.33		13.33		7			
405-2	Ratio Salary (Average Female Salary / Average Male Salary)											
(2016)	Executive (Level 13-18): Base salary	Ratio	0.8		0.97		0.84		0.98			
		THB	6,206,000	4,966,000	4,618,889	4,466,053	4,022,391	3,360,929	4,841,644.61	4,744,319.76		
	Executive (Level 13-18): Base salary + other cash incentives	Ratio	0.92		0.93		0.93		1.00			
		THB	9,273,000	7,803,000	6,306,941	5,776,916	5,204,183	4,821,534	6,771,029.84	6,777,747.74		
	Management (Level 10-12): Base salary	Ratio	0.88		0.85		0.85		1.07			
		THB	2,265,000	2,160,000	1,976,101	1,732,389	1,703,559	1,450,629	1,548,226.15	1,659,823.18		
	Management (Level 10-12): Basesalary + Others cash incentives	Ratio	0.86		0.91		0.91		1.00			
		THB	396,000	3,785,000	2,929,210	2,518,716	2,591,336	2,346,150	2,061,618.19	2,067,236.20		
	Non-managment (Level 9 and below): Base salary	Ratio	1.14		1.07		1.07		1.01			
		THB	737,000	797,000	734,017	839,963	550,036	588,982	565,647.66	573,777.69		
	Difference Between Men and Women Employees											
	Mean gender pay gap		%	3.78		*		-2.61		10.02%		
	Median gender pay gap		%	7.33		*		-1.04		12.77%		
	Mean bonus gap		%	-4.77		*		-4.23		-5.59%		
	Median bonus gap		%	-10.07		*		-8.17		-13.02%		
2-9	Board Structure											
(2021)	Total number of board members	Number	15		15		14		15			
	Number of executive director	Number	1		1		1		1			
	Number of non-executive directors (excl. independent directors)	Number	6		6		4		5			
	Number of independent directors	Number	8		8		9		9			

¹ STEM stand for Science, Technology, Engineering and Mathematics. Positions include, but are not limited to, the following: computer programmer, web developer, statistician, logistician, engineer, physicist, scientist.

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
-	Number of independent directors (DJSI Definition) ¹	Number	14		14		13		14		
2-30	Labor Practice Indicators										
(2021)	Employees represented by an independent trade union	%	100		100		100		100		

¹ GC Independent director criteria which are aligned with the SAM's criteria (DJSI Definition), which 4 out of 9 and the first 2 from 3 criteria.

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
Health and Safety										
403-8 (2018)	Workers Covered by an Occupational Health and Safety Management System									
	Employee									
	Covered by an occupational health and safety management system	Person	9,246		9,037		7,668		7,425	
		%	100		100		100		100	
	Covered by such a system that has been internally audited	Person	9,246		9,037		7,668		7,425	
		%	100		100		100		100	
	Covered by such a system that has been audited or certified by an external party	Person	9,246		9,037		7,668		7,425	
		%	100		100		100		100	
	Contractor ¹									
	Covered by an occupational health and safety management system	Person	982		1,970		3,632		3,096	
		%	100		100		100		100	
	Covered by such a system that has been internally audited	Person	982		1,970		3,632		3,096	
		%	100		100		100		100	
	Covered by such a system that has been audited or certified by an external party	Person	982		1,970		3,632		3,096	
		%	100		100		100		100	
403-9 (2018)	Fatalities as a Result of Work-Related Injury									
	Employees	Case	1		0		0		0	
			1	0	0	0	1	0	0	0
	Rayong	Case	1	0	0	0	1	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Contractors ¹	Case	0		0		1		0	
			0	0	0	0	1	0	0	0
	Rayong	Case	0	0	0	0	1	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Rate Fatalities as a Result of Work-Related Injury									
	Employees	Case/1 million manhours	0.06		0		0.05		0	
			0.06	0	0	0	0.06	0.00	0	0
	Rayong	Case/1 million manhours	0.06	0	0	0	0.06	0.00	0	0
	Bangkok	Case/1 million manhours	0	0	0	0	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0	0	0	0	0	0
	Contractors ¹	Case/1 million manhours	0		0		0.04		0	
			0	0	0	0	0.05	0	0	0
	Rayong	Case/1 million manhours	0	0	0	0	0.05	0	0	0

¹ Worker (exclude employee) refers to significant workers that are contractors

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
	Bangkok	Case/1 million manhours	0	0	0	0	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0	0	0	0	0	0
403-9 (2018)	High-Consequence Work-Related Injuries (Excluding Fatalities)									
	Employees	Case	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case	0	0	0	0	0	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Contractor ¹	Case	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case	0	0	0	0	0	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Rate of High-Consequence Work-Related Injuries (Excluding Fatalities)									
	Employees	Case/1 million manhours	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case/1 million manhours	0	0	0	0	0	0	0	0
	Bangkok	Case/1 million manhours	0	0	0	0	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0	0	0	0	0	0
	Contractors ¹	Case/1 million manhours	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case/1 million manhours	0	0	0	0	0	0	0	0
	Bangkok	Case/1 million manhours	0	0	0	0	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0	0	0	0	0	0
	Total Recordable Work-Injuries ²									
	Employees	Case	4		9		8		3	
			4	0	9	0	7	1	2	1
	Rayong	Case	4	0	9	0	7	1	2	1
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Contractors ¹	Case	27		27		17		22	
			27	0	27	2	16	1	19	3
	Rayong	Case	27	0	27	2	16	1	19	3
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0

¹ Worker (exclude employee) refers to significant workers that are contractors.

² Main types of work-related injury include Medical Treatment Case (MTC), Restrict Treatment Case (RTC).

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
403-9 (2018)	Recordable Work-Injuries Rate (IR) ¹										
	Employees	Case/1 million	0.22		0.52		0.40		0.15		
		manhours	0.22	0	0.52	0	0.45	0.23	0.13	0.23	
	Rayong	Case/1 million	0.22	0	0.52	0	0.45	0.23	0.13	0.23	
	manhours										
	Bangkok	Case/1 million	0	0	0	0	0	0	0	0	
	manhours										
	Other provinces	Case/1 million	0	0	0	0	0	0	0	0	
	manhours										
	Contractors ²	Case/1 million	0.42		1.04		0.63		0.84		
		manhours	0.42	0	1.23	0.34	0.75	0.18	0.92	0.56	
	Rayong	Case/1 million	0.42	0	1.23	0.34	0.75	0.18	0.92	0.56	
	manhours										
	Bangkok	Case/1 million	0	0	0	0	0	0	0	0	
	manhours										
	Other provinces	Case/1 million	0	0	0	0	0	0	0	0	
	manhours										
	Number of Hours Worked										
	Employees	Manhours		17,840,745		19,503,556		19,979,309		19,540,947	
	Contractor ²	Manhours		63,861,210		27,865,681		26,812,318		26,119,278	
Lost-Time Injury Frequency Rate (LTIFR)											
Employees	Case		1		1		0		1		
	Case/1 million manhours		0.06		0.05		0.00		0.05		
Data coverage	% of revenue		100		100		100		100		
Contractors ²	Case		3		13		4		5		
	Case/1 million manhours		0.05		0.47		0.15		0.19		
Data coverage	% of revenue		100		100		100		100		
Lost Work Day (LWD) & Lost Day Rate (LDR)											
Employees	Case		1.00		0		0		2		
	Case/1 million manhours		0.06		0		0		0.10		
Contractors ²	Case		3.00		104		17		216		
	Case/1 million manhours		0.05		0.37		0.63		8.27		
403-10 (2018)	Number of Fatalities as a Result of Work-Related Ill Health										
	Employees	Case	0		0		0		0		
			0	0	0	0	0	0	0	0	
	Rayong	Case	0	0	0	0	0	0	0	0	
	Bangkok	Case	0	0	0	0	0	0	0	0	
	Other provinces	Case	0	0	0	0	0	0	0	0	
	Contractors ²	Case	0		0		0		0		

¹ Injury types include medical treatment, restricted work and loss time cases.

² Worker (exclude employee) refers to significant workers that are contractors.

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2020		2021		2022		2023	
			Male	Female	Male	Female	Male	Female	Male	Female
			0	0	0	0	0	0	0	0
	Rayong	Case	0	0	0	0	0	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
403-10	Number of Cases of Recordable Work-Related Ill Health									
(2018)	Employees	Case	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case	0	0	0	0	0	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Contractors ²	Case	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case	0	0	0	0	0	0	0	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Occupational Diseases Rate (ODR) ¹									
	Employees	Case/1 million manhours	0		0		0		0	
			0	0	0	0	0	0	0	0
	Rayong	Case/1 million manhours	0	0	0	0	0	0	0	0
	Bangkok	Case/1 million manhours	0	0	0	0	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0	0	0	0	0	0
	Data coverage	% of revenue	100		100		100		100	
	Contractors ²	Case/1 million manhours	0.25		0		0		0	
			0.25	0	0	0	0	0	0	0
	Rayong	Case/1 million manhours	0.25	0	0	0	0	0	0	0
	Bangkok	Case/1 million manhours	0	0	0	0	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0	0	0	0	0	0
	Occupational Health and Safety									
G4-	Process Safety Events - Tier 1									
OG13	Number per Million hours worked	Number	2		2		3		1	
	By business activity: production	Number	*		*		3		1	
	By business activity: transportation	Number	*		*		0		0	
	By business activity: storage	Number	*		*		0		0	
	By business activity: other	Number	*		*		0		0	
	Data coverage	% of revenue	100		100		100		100	
	Target of tier 1 process safety events per million hours worked	Number	0		0		0		0	

¹ Occupation Disease Rate refers to Occupational Illness Frequency Rate (OIFR).

² Worker (exclude employee) refers to significant workers that are contractors.

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2020		2021		2022		2023		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Process Safety Events - Tier 2										
	Number per Million hours worked	Number					6	6		1	
	By business activity: production	Number					*	6		1	
	By business activity: transportation	Number					*	0		0	
	By business activity: storage	Number					*	0		0	
	By business activity: other	Number					*	0		0	
	Data coverage	% of revenue					100	100		100	
	Process safety incidents										
	Process safety incidents count (PSIC)	Case	NA		NA		NA		NA		
	Process safety total incident rate (PSTIR)	Number	NA		NA		NA		NA		
	Process safety incident severity rate (PSISR)	Number	NA		NA		NA		NA		
	Transport incidents										
	Number of transport incidents	Case	NA		NA		NA		NA		
-	Number of Cases of Recordable Covid Cases										
	Employees	Case			58		NA		0		
		Case			56	2	NA	NA	0	0	
	Rayong	Case			45	1	NA	NA	0	0	
	Bangkok	Case			11	1	NA	NA	0	0	
	Other provinces	Case			0	0	NA	NA	0	0	
	Contractors	Case			87		NA		0		
		Case			63	24	NA	NA	0	0	
	Rayong	Case			60	24	NA	NA	0	0	
	Bangkok	Case			3	0	NA	NA	0	0	
	Other provinces	Case			0	0	NA	NA	0	0	

* To be updated in the end of July 2024

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
Corporate Governance						
2-11	Non-executive Chairman/Lead Director					
(2021)	Number of years that company adopt approach the "Chairman is non-executive and independent"	Year	9	10	11	12
2-9	Board Industry Experience					
(2021)	Number of board members that have relevant working experience in company's sector according to GICS level 1 sector classification	Number	10	10	9	9
2-9	Board Effectiveness					
(2021)	Average board meeting attendance	% of meetings of board of directors/ supervisory board	97	99.5	99.5	99.1
	Minimum of attendance for all members required, at least	%	75	75	76	75
	Number of non-executive/ independent directors with 4 or less other mandates:	Number	14	14	13	14
	Number of other mandates for non-executive/independent directors restricted to	Number	4	4	4	4
2-9	Average Tenure					
(2021)	Average tenure of board members in years	Year	3	3	2.7	1.3
2-19	Executive Compensation – Alignment with Long-Term Performance					
(2021)	The longest performance period covered by your executive compensation plan	Year	4	4	4	4
	The longest time vesting period for variable CEO compensation	Year	4	4	4	4
2-21	Transparency of Executive Compensation					
(2021)	Total compensation of CEO	Baht	16,028,000	15,349,000	22,460,000	17,799,000
	Salary of CEO	Baht	10,440,000	11,150,000	12,454,000	13,178,000
	Bonus of CEO	Baht	4,568,000	3,102,000	8,827,000	3,300,000
	Provident Fund of CEO	Baht	1,020,000	1,097,000	1,179,000	1,321,000
	Total compensation of Executives (except the CEO)	Baht	50,730,976	49,736,000	56,358,000	142,360,671
	Salary of Executives (except the CEO)	Baht	32,247,488	35,294,000	34,832,000	109,087,320
	Bonus of Executives (except the CEO)	Baht	14,157,139	9,681,000	16,739,000	22,878,124
	Provident Fund of Executives (except the CEO)	Baht	4,326,349	4,761,000	4,787,000	10,395,227
	Total compensation of Executives (Executive Vice President)	Baht	97,743,000	72,868,000	105,626,000	101,093,920
	Salary of Executives (Executive Vice President)	Baht	61,836,000	52,356,000	59,671,000	71,746,520
	Bonus of Executives (Executive Vice President)	Baht	27,472,000	13,168,000	37,561,000	20,033,400
	Provident Fund of Executives (Executive Vice President)	Baht	8,435,000	7,344,000	8,394,000	9,314,000
	Total compensation of Executives (Senior Vice President)	Baht	231,377,000	204,467,000	253,571,000	218,158,903
	Salary of Executives (Senior Vice President)	Baht	147,411,000	146,240,000	147,590,000	153,411,024
	Bonus of Executives (Senior Vice President)	Baht	65,334,000	38,711,000	85,875,000	44,627,682
	Provident Fund of Executives (Senior Vice President)	Baht	18,632,000	19,516,000	20,106,000	20,120,197
2-21	Disclosure of Median or Mean Compensation of all Employees & CEO Compensation					
(2021)	Median annual compensation of all employees, except the CEO	Baht	1,584,000	1,407,000	989,017.63	1,546,000

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Mean annual compensation of all employees, except the CEO	Baht	1,960,000	1,724,000	1,160,163.47	1,860,000
	Ratio of the median employee compensation and the total annual compensation of the CEO	Ratio	10	11	23	11.51
	Ratio of the mean employee compensation and the total annual compensation of the CEO	Ratio	8	9	19	9.57
-	Management Ownership Requirements					
	Number of a company share that CEO hold	Times of the annual base salary		10	10	10
	Other members of the executive committee besides the CEO have to build up a share ownership	Times of the annual base salary		5	5	5
-	Management Ownership					
	Number of a company share that CEO hold	Times of the annual base salary	0	0	0	0
	Average across other executive committee members hold company shares	Times of the annual base salary	0.29	1.38	0.91	0.91
-	Government Ownership					
	The total percentage of government ownership (sum of % of individual governmental institutions owning more than 5% of voting rights)	%	46.11	45.18	24.35	23.08
-	Family Ownership					
	Total percentage of voting rights that (founding) family members individually have more than 5% of the voting rights.	Total % of voting rights of the company				
-	Dual Class Shares					
	Amount of shares with no vote	Number of share	372,225,485	408,946,417	392,116,551	344,333,936
	Amount of shares with one vote	Number of share	4,114,323,632	4,099,902,700	4,116,732,566	4,164,515,181
	Voting Power (= Votes per share x Amount of Share)	Total number of vote	4,114,323,632	4,099,902,700	4,116,732,566	4,164,515,181
Risk and Crisis Management						
-	Risk Governance					
	Number of non-executive members of board of directors/supervisory board with expertise in (enterprise) risk management	Number	14	14	13	14
Compliance						
205-2 (2016)	Anti-Bribery and Corruption (ABC)					
	ABC has been communicated to Governance body members¹					
	Governance body members that the organization's anti-corruption policies and procedures have been communicated to	Person	28	27	30	68
		% of governance body members	100	100	100	100
	Total number and percentage of <u>governance body members</u> that the organisation's anti-corruption policies and procedures have been communicated to, by <u>region</u>					
	Rayong	Person	15	13	12	29

¹ For the fiscal years 2020-2022, the count of governance body members does not include employees worked at secotend within the GC group.

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
		% of governance body members	100	100	100	100
	Bangkok	Person	13	13	18	39
		% of governance body members	100	100	100	100
	Other provinces	Person	-	1	-	NA
		% of governance body members	-	100	-	NA
	ABC has been communicated to employees					
	Employees that anti-corruption policies and procedures have been communicated to	Person	9,212	7,920	7,668	7,425
		%	100	100	100	100
	Total number and percentage of <u>employees</u> that anti-corruption policies and procedures have been communicated to, by <u>employee category</u>					
	Senior executive	Person	98	27	30	68
		% of employees	100	100	100	100
	Management	Person	928	582	1,010	1,031
		% of employees	100	100	100	100
	Non-management	Person	8,186	7,311	6,628	6,326
		% of employees	100	100	100	100
	Total number and percentage of <u>employees</u> that anti-corruption policies and procedures have been communicated to, by <u>region</u>					
Rayong	Person	6,906	7,100	6,439	6,225	
	% of employees	100	100	100	100	
Bangkok	Person	2,302	819	1,176	1,142	
	% of employees	100	100	100	100	
Other provinces	Person	4	1	53	58	
	% of employees	100	100	100	100	
ABC has been communicated to business partner						
Business partner that anti-corruption policies and procedures have been communicated to	Person	471	607	362	386	
	%	100	100	100	100	
Total number and percentage of <u>business partner</u> that anti-corruption policies and procedures have been communicated to, by <u>type of business partner</u>						
Contractors / Suppliers / Service Providers	Person	471	607	352	380	
	% of business partner	100.00	100	100	100	
Subsidiaries	Person	19	28	32	27	
	% of business partner	100.00	100	100	100	
Joint ventures (including stakes above 10%)	Person	8	5	16	18	
	% of business partner	66.00	36	100	39	
Total number and percentage of <u>business partner</u> that anti-corruption policies and procedures have been communicated to, by <u>region</u>						
Rayong	Person	109	154	86	100	
	% of business partner	23.14	25.30	23.76	26.32	
Bangkok	Person	274	378	199	195.00	
	% of business partner	58.17	62.30	54.97	51.32	
Other provinces	Person	88	75	77	85	

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
		% of business partner	18.68	12.40	21.27	22.37
	Governance body members training on ABC¹					
	Governance body member training on Anti-Bribery and Corruption (ABC)	Person	28	27	30	68
		%	100	100	100	100
	Total number and percentage of <u>governance body member</u> training on Anti-Bribery and Corruption (ABC) by <u>region</u>					
	Rayong	Person	15	13	12	29
		% of governance body members	100	100	100	100
	Bangkok	Person	13	13	18	39
		% of governance body members	100	100	100	100
	Other provinces	Person	-	1	-	NA
		% of governance body members	-	100	-	NA
	Employees training on ABC					
	Employee training on Anti-Bribery and Corruption (ABC)	Person	9,212	7,920	7,668	7,425
		% of total employees	100.00	100	100	100
	Total number and percentage of <u>employee</u> training on Anti-Bribery and Corruption (ABC) by <u>employee category</u>					
	Senior executive	Person	98	27	30	68
		% of senior executive	100	100	100	100
	Management	Person	928	582	1,010	1031
		% of management employee	100	100	100	100
	Non-management	Person	8,186	7,311	6,628	6,326
		% of non-management employee	100	100	100	100
	Total number and percentage of <u>employee</u> training on Anti-Bribery and Corruption (ABC) by <u>region</u>					
	Rayong	Person	6,906	7,100	6,439	6,225
		% of employee in Rayong	100	100	100	100
	Bangkok	Person	2,302	819	1,176	1,142
		% of employee in Bangkok	100	100	100	100
	Other provinces	Person	4	1	53	58
		% of employee in other provinces	100	100	100	100
205-2 (2016)	Codes of Business Conduct: Coverage					
	<u>Coverage of codes of conduct has been deployed in the past three years</u>					
	Employees	% of total employees	100	100	100	100

¹ For the fiscal years 2020-2022, the count of governance body members does not include employees worked at secomend within the GC group.

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Contractors / Suppliers / Service Providers	% of total contractors/suppliers/service providers	100	100	100	100
	Subsidiaries	% of total subsidiaries	100	100	100	100
	Joint ventures (including stakes below 51%)	% of total Joint ventures	90	100	100	100
	<u>Coverage of codes of conduct written acknowledgement has been obtained in the past three years</u>					
	Employees	% of total employees	100	100	100	100
	Contractors / Suppliers / Service Providers	% of total contractors/suppliers/service providers	100	100	100	100
	Subsidiaries	% of total subsidiaries	100	100	100	100
	Joint ventures (including stakes below 51%)	% of total Joint ventures	90	90	100	100
	<u>Coverage of codes of conduct training has been provide in the past three years</u>					
	Employees	% of total employees	100	100	100	100
	Contractors / Suppliers / Service Providers	% of total contractors/suppliers/service providers	100	100	100	100
	Subsidiaries	% of total subsidiaries	100	100	100	100
	Joint ventures (including stakes below 51%)	% of total Joint ventures	100	100	100	100
206-1 (2016)	Anticompetitive Practices					
	Total amount of any fines or settlements related to antitrust/anticompetitive business practices (excluding legal fees)	Baht	0	0	0	0
		% of total revenues	0	0	0	0
	Amount of contingent liabilities for ongoing antitrust/anticompetitive investigations	% of total revenues	0	0	0	0
205-3 (2016), 206-1 (2016), 406-1 (2016)	Codes of Business Conduct: Reporting on breaches					
	<u>Number of code of conduct breaches reporting</u>					
	Code of Conduct Complaints	Case	6	10	5	7
	Corruption	Case	1	1	0	2
	Privacy	Case	NA	NA	0	0
	Money Laundering or Insider trading	Case	NA	NA	0	0
	Conflict of interest	Case	2	7	0	0
	Corporate compliance	Case	2	2	5	5
	Antitrust/Anticompetitive	Case	0	0	0	0
	Discrimination	Case	0	0	0	0
	Sexual Harassment	Case	0	0	0	0
	Non-Sexual Harassment	Case	0	0	0	0

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	<u>Number of code of conduct breaches ongoing investigation in the reporting year</u>					
	Code of Conduct Complaints	Case	0	3	0	2
	Corruption	Case	0	0	0	1
	Privacy	Case	NA	NA	0	0
	Money Laundering or Insider trading	Case	NA	NA	0	0
	Conflict of interest	Case	0	3	0	0
	Corporate compliance	Case	0	0	0	1
	Antitrust	Case	0	0	0	0
	Discrimination	Case	0	0	0	0
	Sexual Harassment	Case	0	0	0	0
	Non-Sexual Harassment	Case	0	0	0	0
	<u>Number of confirmed cases of code of conduct breaches</u>					
	Code of Conduct Complaints	Case	0	1	0	4
	Corruption	Case	0	0	0	2
	Privacy	Case	NA	NA	0	0
	Money Laundering or Insider trading	Case	NA	NA	0	0
	Conflict of interest	Case	0	1	0	0
	Corporate compliance	Case	0	0	0	2
	Antitrust	Case	0	0	0	0
	Discrimination	Case	0	0	0	0
	Sexual Harassment	Case	0	0	0	0
	Non-Sexual Harassment	Case	0	0	0	0
206-1 (2016)	<u>Details of actions taken against the substantiated cases</u>					
	Verbal warning	Case	1	3	6	2
	Written warning	Case	1	2	3	2
	Dismissal	Case	1	18	6	6
	Other (Terminate contract)	Case	0	0	4	0
2-27 (2021)	<u>Total number of significant instances of non-compliance with laws and regulations during the reporting period</u>					
	<u>Instances for which fines were incurred</u>					
	Total number of case	Case	0	0	0	0
	Corruption and bribery	Case	0	0	0	0
	Social and community	Case	0	0	0	0
	Environmental	Case	0	0	0	0
	Occupational health & safety	Case	0	0	0	0
	Product and packages	Case	0	0	0	0
	Human rights	Case	0	0	0	0
	<u>Instances for which non-monetary sanctions were incurred</u>					
	Total number of case	Case	0	0	0	0
	Corruption and bribery	Case	0	0	0	0
	Social and community	Case	0	0	0	0
	Environmental	Case	0	0	0	0
	Occupational health & safety	Case	0	0	0	0
	Product and packages	Case	0	0	0	0
	Human rights	Case	0	0	0	0
	<u>Total number and the monetary value of fines for instances of noncompliance with laws and regulations that were paid during the reporting period</u>					
	<u>Fines for instances of non-compliance with laws and regulations that occurred in the current reporting period</u>					
	Total monetary value	Baht	0	0	0	0
	Corruption and bribery	Baht	0	0	0	0

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Social and community	Baht	0	0	0	0
	Environmental	Baht	0	0	0	0
	Occupational health & safety	Baht	0	0	0	0
	Product and packages	Baht	0	0	0	0
	Human rights	Baht	0	0	0	0
Supply Chain						
308-1 (2016)	Percentage of new suppliers that were screened using <u>environmental criteria</u>	% of new suppliers	100	100	100	100
414-1 (2016)	Percentage of new suppliers that were screened using <u>social criteria</u>	% of new suppliers	100	100	100	100
Corporate Social Responsibility						
201-1 (2016)	Philanthropic Activities					
	Total contribution	Million Baht	164.72	391	142.29	106.28
	Charitable donations	Million Baht	25.82	19.44	43.45	37.83
		% of total cost	15.68	4.97	30.21	35.60
	Community investments	Million Baht	104.02	322.76	77.27	56.54
		% of total cost	63.15	82.53	53.72	53.20
	Commercial initiatives	Million Baht	34.88	48.87	21.58	11.91
		% of total cost	21.18	12.50	15.00	11.20
	Input					
	Management overheads	Million Baht	48.23	41.30	56.22	45.76
	Employee volunteering time during paid working hours	Million Baht	8.8	4.70	9.40	9.74
		Hour	25,648	12,575	24,679	24,867
	Cash contribution	Million Baht	113.29	302.22	94.98	77.35
	Products or services donations	Million Baht	45.43	78.18	26.57	24.69
413-1	Local Community					
	Percentage of operations with implemented local community engagement, impact assessments, and/or development programs	%	100	100	100	100
	Community satisfaction survey	%	86.14	91.25	90.46	92.38
	Community satisfaction target at fiscal year	%	> 86	> 86	> 86	> 86
Social Reporting						
-	Social Reporting - Coverage					
	Coverage of publicly available social data ¹	% of business operations	100	100	100	100
Customer Relation Management						
-	Percentage of satisfied clients	% of total clients	95	95	95	95
	Data coverage	% of key clients	100	100	100	100
	Target of satisfied clients at fiscal year	% of total clients	95	95	95	95
	Customer satisfaction result	%	93	93	93	93
	Data coverage	% of key clients	100	100	100	100
	Customer satisfaction target at fiscal year	%	90	90	90	90

¹ The scope of this report covers the companies under GC, by which GC holds greater than or equal to 50% of the total shares and has operational control.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
301-1 (2016)	Material					
	Total material used	Million tons	23.03	23.40	22.73	25.08
	Non renewable material	Million tons	22.50	22.84	22.18	24.49
	Renewable material ¹	Million tons	0.54	0.56	0.54	0.59
301-2 (2016)	Percentage of materials used that are recycled input materials	%	NA	NA	NA	0.004
302-1 (2016)	Energy Consumption					
	Total energy consumed	MWh	NA	NA	36,882,002	39,301,804
	Percentage grid electricity	%	NA	NA	8.00	7.95
	Percentage renewable	%	NA	NA	0.00	0.02
	Total self-generated energy	MWh	NA	NA	18,389,114	21,016,940
	Total direct non-renewable energy consumption	MWh	31,527,566.00	35,611,872.37	32,092,371.50	33,778,672.42
	Natural gas	MWh	18,023,901.00	15,985,482.61	13,488,813.67	12,448,018.55
	LPG	MWh	568,209.00	4,773.27	4,591.40	4,467.20
	Diesel	MWh	1,167.00	94.09	701.79	789.70
	Pyrolysis gas oil	MWh	219,321.00	99,408.65	48,293.59	97,164.20
	Recovered volatile (RV)	MWh	4,904.00	7,744.94	2,031.38	8,256.05
	Foul hexane	MWh	6,732.00	4,327.23	8,599.05	-
	Fuel oil	MWh	3,209.00	82,318.72	150,226.80	203,037.08
	Fuel gas	MWh	12,700,123.00	19,427,722.85	18,389,113.82	21,016,939.64
	Total indirect energy consumption by primary energy source	MWh	9,990,802.00	12,302,600.19	10,066,699.71	11,199,182.70
	Steam / heating / cooling and other energy (non-renewable) purchased for consumption	MWh	7,006,887.00	8,814,668.85	7,114,719.25	8,073,448.39
	Electricity (non-renewable) purchased	MWh	2,983,916.00	3,516,319.28	2,951,980.46	3,125,734.31
	Steam (non-renewable) purchased	MWh	7,006,887.00	8,785,031.42	7,114,719.25	8,073,448.39
	Cooling (non-renewable) purchased	MWh	0	29,637.44	26,646.54	28,780.30
	Total non-renewable energy sold	MWh	4,980,538.00	5,882,246.82	5,278,408.27	5,682,255.09
	Electricity sold	MWh	1,789,086.00	2,000,757.64	2,066,431.02	2,088,174.73
	Steam sold	MWh	2,996,499.00	3,578,010.73	3,208,432.25	3,591,924.74
	Return steam condensate sold	MWh	194,953.00	79,623.23	3,545.01	2,155.62
	Heating sold	MWh	0	0	0	0
	Cooling sold	MWh	0	0	0	0
	Total non-renewable energy consumption within the organization	MWh	36,537,978	43,154,272	36,880,662.93	39,295,600.03
	Total renewable energy (wind, solar, biomass, hydroelectric, geothermal, etc.) purchased or generated	MWh	148.00	1,249.49	1,339.37	6,203.73
	Solar cell	MWh	148.00	1,249.49	1,339.37	6,203.73
	Wind turbine	MWh	0	0	0	0
	Total energy consumption within the organization from non-renewable sources	MWh	36,537,978	42,032,373.73	36,617,809.09	39,295,600.03
-	Total cost of energy consumption	Million Baht	37,691	*	*	100
	Percentage of data coverage	% of production volume	100	100	100	-
	Total non-renewable energy consumption target at fiscal year	MWh	37,247,347	49,983,728	37,026,601	39,295,600.03
302-2 (2016)	Energy consumption outside of the organization	MWh	*	*	*	*

¹ The scope encompasses all raw materials and water utilized in the production of commercially sold products

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
302-3 (2016)	Total energy intensity ¹	MWh/ton production	1.42	*	1.65	-
302-4 (2016)	Total energy saved by efforts to reduce energy use and increase energy efficiency	MWh	321,405	*	400,235.70	205,386.20
	Fuel Saving	MWh	125,034	*	228,350.81	69,741.29
	Total indirect energy saved from initiative to reduce indirect energy use	MWh	196,371	*	171,884.89	135,644.91
	Electricity saving	MWh	5,412	*	10,189.93	10,848.98
	Steam saving	MWh	190,959	*	161,694.96	124,795.93
	Greenhouse Gases Emissions (GHGs) ²					
305-1 (2016)	Total direct GHG emissions (scope 1) ³	Million tons CO ₂ equivalent	5.79	6.54	6.15	6.33
	Direct GHG emissions from methane	Million tons CO ₂ equivalent	0.35	0.38	0.32	0.35
	Percentage of data coverage	% of production volume	100	100	100	100
	Total direct GHG emissions (scope 1) target at fiscal year	Million tons CO ₂ equivalent	NA	NA	NA	6.64
	Total biogenic CO ₂ emissions (scope 1)	Tons CO ₂ equivalent	104.00	87.00	150.00	166.00
305-2 (2016)	Indirect GHGs emissions from energy purchased and consumes (scope 2) ²	Million tons CO ₂ equivalent	1.78	2.00	1.96	1.84
	Market-based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	1.78	2.00	1.96	1.84
	Target of market-based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	NA	NA	NA	1.93
	Location based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	2.23	2.93	2.89	2.68
	Target of location based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	NA	NA	NA	*
	Percentage of data coverage	% of production volume	100	100	100	100
	Total indirect GHGs (scope 2) target at fiscal year	Million tons CO ₂ equivalent	NA	NA	NA	1.93
305-3 (2016)	Other relevant indirect GHG emission (scope 3) ^{2,4}	Million tons CO ₂ equivalent	38.45	36.92	35.30	39.54
	Other relevant indirect GHG emission (scope 3): use of sold products	Million tons CO ₂ equivalent	NA	NA	NA	26.91
	Other relevant indirect GHG emission (scope 3): purchased of goods and services	Million tons CO ₂ equivalent	NA	NA	NA	5.55
	Other relevant indirect GHG emission (scope 3): processing of sold products	Million tons CO ₂ equivalent	NA	NA	NA	2.56
	Other relevant indirect GHG emission (scope 3) target at fiscal year	Million tons CO ₂ equivalent	NA	NA	NA	NA

* To be updated in the end of July 2024

¹ All types of energy included in the intensity ratio and consumed within the organization

² GHGs emissions based on report of 1) GHGs calculation standard, methodology, emission factors and GWP referred to IPCC 2006, WRI GHG protocol and ISO 14064. 2) The operational control approach for emissions.

³ All greenhouse gases included in the report.

⁴ Indirect GHG emission scope 3 categories activities reported include 1) Purchased goods and service, 2) Capital goods, 3) Fuel- and energy-related activities, 4) Upstream transportation and distribution, 5) Downstream transportation and distribution (Polymer product), 6) Processing of sold products, 7) Use of sold products, 8) End-of-life treatment of sold products, 9) Investment.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Total biogenic CO ₂ emissions (scope 3)	Tons CO ₂ equivalent	NA	NA	NA	*
305-4 (2016)	GHG emission intensity (scope 1 & 2) ¹	Tons CO ₂ equivalent/ tons production	0.38	0.41	0.40	0.38
305-5 (2016)	Total estimated annual CO ₂ savings	Tons CO ₂ equivalent	86,779	63,333	59,903	36,981 ²
-	GHG annual reduction target at fiscal year	Tons CO ₂ equivalent	NA	NA	NA	30,000
305-7 (2016)	NO _x , SO _x , and Other Significant Air Emissions ³					
	Volatile organic compounds (VOCs)	Tons VOCs	816	773	702	720
	Percentage of data coverage	% of production volume	100	100	100	100
	VOCs target at fiscal year	Tons VOCs	NA	NA	NA	764
	VOCs intensity	Tons VOCs/ million tons production	38.33	34.82	32.79	31.73
	Nitrogen oxides (NO _x) emissions	Tons NO _x	3,308	3,910	3,267	3,174
	Percentage of data coverage	% of production volume	100	100	100	100
	NO _x emissions target at fiscal year	Tons NO _x	NA	NA	NA	3,267
	NO _x intensity	Tons NO _x / million tons production	155.29	176.10	152.56	139.84
	Sulfur oxides (SO _x) emissions	Tons SO _x	397	354	371	331
	Percentage of data coverage	% of production volume	100	100	100	100
	SO _x emissions target at fiscal year	Tons SO _x	NA	NA	NA	354
	SO _x intensity	Tons SO _x / million tons production	18.62	15.93	17.33	14.59
	Total suspended particulate (TSP)	Tons	41.51	50.28	68.39	63.68
	TSP intensity	Tons/ million tons production	1.9	2.6	3.2	2.8
	Persistent organic pollutants (POP)	Tons POP	NA	NA	NA	NA
	POP intensity	Tons/million tons production	NA	NA	NA	NA
	Hazardous air pollutants (HAP)	Tons HAP	NA	NA	NA	NA
	HAP intensity	Tons/million tons production	NA	NA	NA	NA
303-5 (2018)	Water Consumption					
	Withdrawal: Total municipal water supplies (or from other water utilities)	Million m ³	53.55	58.94	61.20	60.19
	Withdrawal: Fresh surface water	Million m ³	0.51	0.51	0.28	0.41
	Withdrawal: Fresh ground water	Million m ³	0.01	0.01	0.00	0.01
	Discharge: Water returned to the source of extraction at similar or higher quality as raw water extracted	Million m ³	11.36	13.12	13.80	14.99

* To be updated in the end of July 2024

¹ Types of GHGs emissions, which are direct (scope 1) and energy indirect (scope 2), included in the intensity ratio.

² From new projects that contribute to CO₂ savings (realized)

³ Standards, methodologies, source of emission factors and assumptions used are identified relevant regulations. The Air Emissions standards include Notification of Ministry of Industry, B.E. 2549 (2006), Re: Prescribing Quantity of Air Pollutant Emitted from Industrial Facilities, Notification of Natural Resources and Environment, B.E. 2549 (2006), Re: Establishment of Air Emissions Control Standard of Industrial Emissions, EIA or EHIA. The measurement approaches include direct and/or continuous measurement.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Total net fresh water consumption	Million m ³	42.71	46.34	47.69	45.62
	Percentage of data coverage	% of production volume	100	100	100	100
	Target of total net fresh water consumption at fiscal year	Million m ³	NA	NA	NA	48.00
	Total water consumption from all areas	Mega litres	42,710	46,340	47,689	45,624
	Total water consumption from areas with water stress	Mega litres	0	0	0	0
	Target of total net fresh water consumption in water-stressed areas at fiscal year	Million m ³	NA	NA	NA	NA
	Change in water storage, if water storage has been identified as having a significant water-related impact.	Mega litres	NA	NA	NA	NA
303-3	Water withdrawal					
(2018)	Total water withdrawal from all areas	Mega litres	64,226.47	67,657.10	69,108.87	67,740.25
	Fresh water (≤1,000 mg/L Total Dissolved Solids)	Mega litres	54,069.34	59,458.33	61,489.47	60,610.47
	Surface water	Mega litres	510.21	510.21	284.69	411.89
	Groundwater	Mega litres	5.11	5.11	4.64	6.92
	Seawater	Mega litres	0	0	0	0
	Produced water	Mega litres	0	0	0	0
	Third-Party water	Mega litres	53,554.02	58,943.01	61,200.14	60,191.66
	Other water (>1,000 mg/L Total Dissolved Solids).	Mega litres	10,157.13	8,198.77	7,619.40	7,130
	Surface water	Mega litres	0	0	0	0
	Groundwater	Mega litres	0	0	0	0
	Seawater	Mega litres	10,107.13	8,148.77	7,569.40	6,997.87
	Produced water	Mega litres	0	0	0	0
	Third-Party water	Mega litres	50	50	50	132
	Total water withdrawal from all areas with water stress	Mega litres	NA	NA	NA	NA
	Fresh water (≤1,000 mg/L Total Dissolved Solids)	Mega litres	NA	NA	NA	NA
	Surface water	Mega litres	NA	NA	NA	NA
	Groundwater	Mega litres	NA	NA	NA	NA
	Seawater	Mega litres	NA	NA	NA	NA
	Produced water	Mega litres	NA	NA	NA	NA
	Third-Party water	Mega litres	NA	NA	NA	NA
	Surface water	Mega litres	NA	NA	NA	NA
	Groundwater	Mega litres	NA	NA	NA	NA
	Seawater	Mega litres	NA	NA	NA	NA
	Produced water	Mega litres	NA	NA	NA	NA
	Third-Party water	Mega litres	NA	NA	NA	NA
	Surface water	Mega litres	NA	NA	NA	NA
	Groundwater	Mega litres	NA	NA	NA	NA
	Seawater	Mega litres	NA	NA	NA	NA
	Produced water	Mega litres	NA	NA	NA	NA
	Third-Party water	Mega litres	NA	NA	NA	NA
	Surface water	Mega litres	NA	NA	NA	NA
	Groundwater	Mega litres	NA	NA	NA	NA
	Seawater	Mega litres	NA	NA	NA	NA
	Produced water	Mega litres	NA	NA	NA	NA
-	Water consumption intensity	m ³ / ton production	2.01	2.09	2.23	2.01
	Water reused	Mega litres	17,817.67	14,041.52	10,350.73	19,050.22
	Water recycled	Mega litres	3,580.16	2,050.79	1,655.01	2,466.45

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Total Water recycled & Water reused	Mega litres	21,398	16,092	14,353	21,517
		% of total water withdrawal	33	24	21	32
303-4 (2018)	Water Discharge ¹					
	Total water discharge to all areas	Mega litres	22,890.84	22,783.37	23,625.28	23,546.18
	Fresh water ($\leq 1,000$ mg/L Total Dissolved Solids)	Mega litres	3,267.68	4,491.59	4,348.37	4,560.58
	Surface water	Mega litres	83.20	646.48	1,364.99	1,475.98
	COD Loading	Tons	1	22	11.96	32.50
	Groundwater	Mega litres	0	0	0	-
	Seawater	Mega litres	2,008.39	5,332.86	2,058.86	119.52
	COD Loading	Tons	92.12	2	2.94	2.72
	Third-party water sent for use to other organizations	Mega litres	1,952.21	2,386.66	3,921.62	2,965.08
	COD Loading	Tons	173	142	205.34	171.75
	Other water ($> 1,000$ mg/L Total Dissolved Solids).	Mega litres	19,623.16	18,291.78	19,276.91	18,985.61
	Surface water	Mega litres	1,441	702	768	707.95
	BOD Loading	Tons	4	2	1.33	2.22
	COD Loading	Tons	65	30	29.05	35.24
	TSS Loading	Tons	14	5	3.48	5.62
	Oil & Grease Loading	Tons	1.97	0.71	0.78	0.35
	Groundwater	Mega litres	0	0	0	0
	Seawater	Mega litres	11,532	9,665	9,825	8,560
	COD Loading	Tons	53.25	133.49	133.67	162.98
	Third-party water sent for use to other organizations	Mega litres	6,651	7,924	8,684	9,718
	BOD Loading	Tons	26.97	46.86	26.95	8.26
	COD Loading	Tons	673.73	1,462.41	1,182.13	670.73
	TSS Loading	Tons	54.03	91.46	58.80	28.46
	Oil & Grease Loading	Tons	13	21	12.45	1.13
	Total direct COD	Tons	1,058	1,792	1,565	1,076
	Percentage of data coverage	% of production volume	100	100	100	100
	Total direct COD target at fiscal year	Tons COD	NA	NA	NA	1,079
	Total water discharge to areas with water stress	Mega litres	0	0	0	0
	Fresh water ($\leq 1,000$ mg/L Total Dissolved Solids)	Mega litres	0	0	0	0
	Other water ($> 1,000$ mg/L Total Dissolved Solids)	Mega litres	0	0	0	0
306-3 (2020)	Routine Waste Generation					
	Total waste generated	Tons	88,416	157,156	139,538	122,453
	Total Hazardous Waste Generated as defined by National Legislation	Tons	32,403	109,753	98,591	88,499
	Data coverage	% of production volume	100	100	100	100
	Total hazardous waste disposal target at fiscal year	Tons	NA	NA	NA	88,900
	Total Non-Hazardous Waste Generated as defined by National Legislation	Tons	56,012	47,404	40,947	33,953
	Data coverage	% of production volume	100	100	100	100

¹ Treatment methods were Reverse Osmosis (R.O.) systems and biological treatment, and discharged water was not reused by another organization. In addition, information sources about the volume of water discharge include flow meters and regulatory permits.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Total Non-Hazardous Waste disposal target at fiscal ye	Tons	NA	NA	NA	6,700
306-4 (2020)	Total weight of waste diverted from disposal	Tons	18,683	41,447	41,487	34,363
	Total Hazardous Waste diverted from disposal	Tons	4,994	20,344	11,985	7,009
	Preparation for reuse	Tons	255	10,979	739	24
	Onsite	Tons	0	0	0	0
	Offsite	Tons	255	10,979	739	24
	Recycling	Tons	4,324	8,740	10,298	4,890
	Onsite	Tons	0	0	0	0
	Offsite	Tons	4,324	8,740	10,298	4,890
	Other recovery operations	Tons	415	624	948	2,095
	Onsite	Tons	0	0	0	0
	Offsite	Tons	415	624	948	2,095
	Percentage of hazardous waste recycled	% of hazardous waste recycled	15	19	12	8
	Total Non-Hazardous waste diverted from disposal ¹	Tons	13,689	21,104	29,502	27,354
	Preparation for reuse	Tons	743	1,040	1,716	944
	Onsite	Tons	0	0	0	0
	Offsite	Tons	743	1,040	1,716	944
	Recycling	Tons	13,449	12,946	19,913	27,461
	Onsite	Tons	0	0	0	0
	Offsite	Tons	12,946	19,913	27,461	25,969
	Other recovery operations	Tons	0	151	325	441
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	151	325	441
306-5 (2020)	Total weight of waste directed to disposal	Tons	69,733	115,709	98,051	88,090
	Total hazardous waste directed to disposal	Tons	27,410	89,409	86,606	81,490
	Incineration (with energy recovery)	Tons	15,806	77,026	61,136	65,584
	Onsite	Tons	0	0	0	0
	Offsite	Tons	15,806	77,026	61,136	65,584
	Incineration (without energy recovery)	Tons	11,572	12,362	25,350	14,663
	Onsite	Tons	0	0	0	0
	Offsite	Tons	11,572	12,362	25,350	14,663
	Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Other disposal operations (Storage in packing or containers (Used Battery))	Tons	32	21	120	1,243
	Onsite	Tons	0	0	0	0
	Offsite	Tons	32	21	120	1,243
	Total Non-hazardous waste directed to disposal	Tons	42,323	26,300	11,445	6,660
	Incineration (with energy recovery)	Tons	40,140	24,916	7,437	5,781
	Onsite	Tons	0	0	0	0
	Offsite	Tons	40,140	24,916	7,437	5,781

¹ As fully complied with the waste disposal defined by Notification of the Ministry of Industry Re: Disposal of Wastewater or U nused Materials 2005, GC transfers all waste to external waste disposers for direct disposal (Off-site) only.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Incineration (without energy recovery)	Tons	255	1	9	12
	Onsite	Tons	0	0	0	0
	Offsite	Tons	255	1	9	12
	Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Other disposal operations (Land reclamation)	Tons	1,928	1,382.3	3,999	807
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1,928	1,382.3	3,999	807
-	Municipal waste	Tons	2,624	4,132	3,726	2,388
306-3 (2020)	Non Routine Waste Generation ¹					
	Total waste generated	Tons	67,215	268,332	41,524	7,245
	Hazardous Waste Generated as defined by National Legislation	Tons	23,728	106,956	970	2,004
	Total Non-Hazardous Waste Generated as defined by National Legislation	Tons	43,486	161,376	40,554	5,241
306-4 (2020)	Total Hazardous Waste diverted from disposal	Tons	7,867	3,753	31	447
	Preparation for reuse	Tons	7,768	3,751	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	7,768	3,751	0	0
	Recycling	Tons	99	2	31	339
	Onsite	Tons	0	0	0	0
	Offsite	Tons	99	2	31	339
	Other recovery operations ³	Tons	0	0	0	108
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	108
	Total Non-Hazardous waste diverted from disposal ²	Tons	314	230	3,647	1
	Preparation for reuse	Tons	0	188	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	188	0	0
	Recycling	Tons	314	42	3,647	1
	Onsite	Tons	0	0	0	0
	Offsite	Tons	314	42	3,647	1
	Other recovery operations ³	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Percentage of hazardous waste recycled	% of hazardous waste recycled	33	4	3	22
306-5 (2020)	Total Hazardous waste directed to disposal	Tons	15,861	103,204	939	1,557
	Incineration (with energy recovery)	Tons	6,082	98,254	939	1,486
	Onsite	Tons	NA	0	0	0

¹ Non-Routine Waste Generation included: 1) Waste from large construction as defined by EIA 2) Spills 3) Waste from emergency/ unplanned shutdown

² As fully complied with the waste disposal defined by Notification of the Ministry of Industry Re: Disposal of Wastewater or Unused Materials 2005, GC transfers all waste to external waste disposers for direct disposal (Off-site) only.

³ Other recovery operation includes reclamation of metal compounds and residues from treatment operations and concrete composition from construction and demolition (bricks, wood, glass, metals, plastic, solvents, asbestos and excavated soil) and residues waste for animal feeds.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
	Offsite	Tons	6,082	98,254	939	1,486
	Incineration (without energy recovery)	Tons	9,773	4,950	0	71
	Onsite	Tons	0	0	0	0
	Offsite	Tons	9,773	4,950	0	71
	Landfilling	Tons	6	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	6	0	0	0
	Other disposal operations	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Total weight of Non-hazardous waste directed to disposal	Tons	43,172	161,146	36,907	5,239
	Incineration (with energy recovery)	Tons	0	10,912	0	2
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	10,912	0	2
	Incineration (without energy recovery)	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Landfilling	Tons	293	293	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	293	293	0	0
	Municipal waste	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Other disposal operations	Tons	42,880	150,234	36,907	5,237
	Onsite	Tons	0	0	0	0
	Offsite	Tons	42,880	150,234	36,907	5,237
306-3	Spills					
(2016)	Oil spills	Case	0	0	0	2
		m ³	0	0	0	0.05
	Volume of spill recovered	m ³	0	0	0	0.05
	Fuel spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered	m ³	0	0	0	0
	Waste spills	Case	0	0	1	0
		m ³	0	0	2.5	0
	Volume of spill recovered	m ³	0	0	2.5	0
	Chemical spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered	m ³	0	0	0	0
G4-OG6	Flared and vented hydrocarbon					
	Volume of flared and vented hydrocarbon	Million m ³	525	771	2,515	278

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2020	2021	2022	2023
-	Environmental Violations					
	Number of violations of legal obligations/ regulations	Number	0	0	0	0
	Amount of fines/penalties related to the above	Million Baht	0	0	0	0
	Environmental liability accrued at year end	Number	0	0	0	0
	Total actual and opportunity costs (e.g. forgone income) from water-related incidents	Baht	0	0	0	0
	Number of incidents of non-compliance associated with water quality permits, standards and regulations	Number	0	0	0	0
Environmental Reporting						
2-5 (2021)	Coverage of publicly available environmental data ¹	% of production volume	100	100	100	100
Operational Eco-Efficiency						
-	Denominator - Production / Revenues					
	Total production volume	Million Tons	21.30	22.20	21.41	22.69
Product Stewardship						
-	Life Cycle Assessment					
	Percentage of full product LCAs conducted	% of total products	10	10	8	8
	Percentage of simplified product LCAs conducted	% of total products	75	75	83	88
	Others	% of total products	15	15	9	4
301-1 (2016)	Renewable Raw Materials					
	Percent of raw materials by weight or volume are from renewable resources	% of Total Products	13	14	12	12
-	Hazardous Substances					
	Percentage of your company's products (in terms of revenues) containing restricted substances in the Annex XVII of REACH regulation	% of Total Products	2	3	4	2
	Percentage of your company's products (in terms of revenues) containing substances of the Candidate List of substances of very high concern (SVHC) for Authorisation above 0.1% by weight	% of Total Products	1	2	2	2
	Percentage of products that contain Globally Harmonised System of Classification and Labelling of Chemicals (GHS) Category 1 and 2 Health and Environmental Hazardous Substances	% of Total Products	N/A	N/A	N/A	23
	Percentage of products (in terms of revenues) has undergone risk assessment for their potential impact on human health and the environment	% of Total Products	100	100	100	100
	Revenue from products designed for usephase resource efficiency	Million baht	NA	NA	NA	NA
Climate Strategy Impact						
-	LowCarbon Products					
	Avoided GHG emissions for client's products	% of total revenues from products	3	4	2	1
	Low carbon products	% of total revenues from products	74	82	88	92
-	Climate Strategy Impacts					
	Total estimated annual CO ₂ savings	Tons CO ₂ equivalent	86,779	63,333	59,903	36,981 ²
	Total annual investment required of anticipated annual CO ₂	Million Baht	172	3,028	261	605
	Total anticipated annual cost savings	Million Baht	396	337	472	365
	GHG annual reduction target at fiscal year	Tons CO ₂ equivalent	NA	NA	NA	30,000

Remarks:

- This report focuses on materiality aspects in Thailand as the operational control. The information on GC subsidiaries, affiliates, and joint ventures is available in GC One Report.
- NA : Data not available

¹ As fully complied with the waste disposal defined by Notification of the Ministry of Industry Re: Disposal of Wastewater or Unused Materials 2005, GC transfers all waste to external waste disposers for direct disposal (Off-site) only.

² From new projects that contribute to CO₂ savings (realized)