



SUSTAINABILITY PERFORMANCE DATA

PTT GLOBAL CHEMICAL PUBLIC COMPANY LIMITED

SUSTAINABILITY PERFORMANCE DATA

PTT Global Chemical Public Company Limited and Subsidiaries*

*Subsidiaries include 1) Solution Creation Company Limited 2) GC Maintenance and Engineering Company Limited 3) NPC Safety and Environmental Service Company Limited 4) GC Treasury Center Company Limited 5) GC Estate Company Limited 6) GC Marketing Solutions Company Limited 7) GC Polyols Company Limited 8) Global Green Chemicals Public Company Limited 9) GC-M PTA Company Limited 10) Thai PET Resin Company Limited 11) ENVICCO Limited

Financial Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
201-1 (2016)	Direct Economic Value Generated					
	Sales revenue	Million baht	465,128	678,267	616,635	604,045
	Revenues from sale of goods and rendering of services	Million baht	468,953	683,954	621,631	608,550
	Net sales plus revenues from financial investments and sales of assets ¹	Million baht	480,182	684,968	625,647	610,366
	Economic Value Distributed					
	Employee wages ² and benefits ³	Million baht	15,172	8,746	12,868	12,547
	Operating cost ⁴	Million baht	433,402	668,947	618,411	625,108
	Payments to government ⁵ : Gross taxes	Million baht	4,336	3,346	1,729	2,130
	Payments to providers of capital ⁶ : Dividends paid	Million baht	14,080	11,746	1,269	3,503
	Community investments	Million baht	323	77.27	56.54	46.91
	Economic value retained	Million baht	23,151	-6,802	-8,686	-32,696
204-1 (2016)	Proportion of spending on local suppliers in Thailand	%	78	81	81	76

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			
			2021	2022	2023	2024
2-5 (2021)	Return on Environmental Investment					
	Total expenditures	Million baht	4,322	1,453	2,039	1,940
	Capital investments	Million baht	3,099	546	961	887
	Operating expenses	Million baht	1,223	907	1,078	1,053
	Waste disposal, emission treatment, and remediation costs	Million baht	1,107	840	1,009	994
	Prevention and environmental management costs	Million baht	115	67	69	59
	Savings, cost avoidance, income, tax incentives, etc.	Million baht	432	494	585	380
	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							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Worker									
	Total worker ¹	Persons	8,990		9,270		8,782		8,677	
		Persons	6,487	2,503	6,663	2,697	6,276	2,506	6,157	2,520
2-7 (2021)	Total employee ²	Persons	7,745		7,668		6,405		7,936	
		Persons	5,799	1,946	4,709	1,740	4,680	1,725	5,869	2,067
2-8 (2021)	Contractor ^{3,4}	Persons	1,231		2,819		805		741	
		Persons	688	543	1,952	867	344	461	288	453
	Other ⁴	Persons	14		2		0		0	
		Persons	0	14	2	0	0	0	0	0
2-7 (2021)	Total Employee by Area									
	Rayong	Persons	5,472	1,339	4,309	1,114	4,294	1,102	5,464	1,444
	Bangkok	Persons	327	607	354	623	336	618	355	618
	Other provinces	Persons	0	0	46	3	50	5	50	5
	Total Employee by Employment Contract and by Area									
	Permanent contract ⁵	Persons	4,647	1,692	4,703	1,740	4,680	1,725	5,869	2,067
	Rayong	Persons	4,325	1,090	4,309	1,113	4,294	1,102	5,464	1,444
	Bangkok	Persons	322	602	348	624	336	618	355	618
	Other provinces	Persons	0	0	46	3	50	5	50	5
	Temporary contract ⁶	Persons	1,152	254	6	0	0	0	0	0
	Rayong	Persons	1,145	249	0	0	0	0	0	0
	Bangkok	Persons	7	5	6	0	0	0	0	0
	Other provinces	Persons	0	0	0	0	0	0	0	0
	Non-guaranteed hours employees	Persons	4,647	1,692	0	0	0	0	0	0
	Rayong	Persons	4,325	1,090	0	0	0	0	0	0
	Bangkok	Persons	322	602	0	0	0	0	0	0
	Other provinces	Persons	0	0	0	0	0	0	0	0
	Total Employee by Employment Type									
	Full-time	Persons	5,799	1,946	4,709	1,740	4,680	1,725	5,869	2,067
	Rayong	Persons	NA	NA	4,309	1,113	4,294	1,102	5,464	1,444
	Bangkok	Persons	NA	NA	354	624	336	618	355	618
	Other provinces	Persons	NA	NA	46	3	50	5	50	5
	Part-time	Persons	0	0	0	0	0	0	0	0
	Rayong	Persons	0	0	0	0	0	0	0	0
	Bangkok	Persons	0	0	0	0	0	0	0	0
	Other provinces	Persons	0	0	0	0	0	0	0	0
405-1 (2016)	Total Employee by Age Group									
	<30 years	% of total employee	18.18		19.41		11.88		15.15	
		Persons	1,480		856		761		1,202	
		% of total employee	13.05	5.13	13.47	5.94	8.48	3.40	10.65	4.50
		Persons	1,011	397	601	265	543	218	845	357

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.

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	30 - 50 years	% of total employee	66.92		99.33		68.54		65.90	
		Persons	5,183		4,431		4,390		5,230	
		% of total employee	49.37	17.55	71.22	28.31	48.73	19.81	47.57	18.33
		Persons	3,824	1,359	3,177	1,254	3,121	1,269	3,775	1,455
	>50 years	% of total employee	14.90		25.82		19.58		18.95	
		Persons	1,154		1,152		1,254		1,504	
		% of total employee	12.45	2.45	20.87	4.95	15.86	3.72	15.74	3.21
		Persons	964	190	931	221	1,016	238	1,249	255
Total Employee by Employee Category (Level)										
Executive (Level 13-18)	% of total employee	0.49	0.13	0.94	0.38	0.66	0.27	0.40	0.13	
	Persons	38	10	42	17	42	17	32	10	
Middle management (Level 10-12)	% of total employee	7.32	3.09	11.72	6.03	9.90	4.32	8.13	3.68	
	Persons	567	239	523	269	634	277	645	292	
Senior (Level 8-9)	% of total employee	12.63	6.80	26.16	12.80	19.64	9.49	15.66	8.29	
	Persons	978	527	1,167	571	1,258	608	1,243	658	
Employee (Level 7 and Below)	% of total employee	39.92	12.03	66.73	19.79	42.83	12.85	49.37	13.48	
	Persons	3,092	932	2,977	883	2,743	823	3,918	1,070	
Unclassified ¹	% of total employee	14.51	3.07	0	0	0.05	0	0.39	0.47	
	Persons	1,124	238	0	0	3	0	31	37	
Total Employee by Nationality										
Thai	% of total employee	99.81		144.36		99.84		99.91		
	Persons	7,730		6440		6,395		7,929		
Japanese	% of total employee	0.10		0.04		0.08		0.05		
	Persons	8		2		5		4		
American	% of total employee	0.01		0		0		0		
	Persons	1		0		0		0		
German	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
Turkey	% of total employee	0.01		0.02		0		0		
	Persons	1		1		0		0		
France	% of total employee	0.01		0.04		0.02		0.01		
	Persons	1		2		1		1		
Netherlands	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
Others	% of total employee	0.05		0.09		0.06		0.03		
	Persons	4		4		4		2		
Total Management Employee by Nationality										
Thai	% of total management employee	99.18		130.76		99.28		99.49		
	Persons	847		846		963		974		
Japanese	% of total management employee	2.54		0.31		0.41		0.31		
	Persons	6		2		4		3		

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

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
	American	% of total management employee	0		0		0		0		
		Persons	0		0		0		0		
	German	% of total management employee	0		0		0		0		
		Persons	0		0		0		0		
	Turkey	% of total management employee	0		0		0		0		
		Persons	0		0		0		0		
	France	% of total management employee	0.10		0.31		0.21		0.10		
		Persons	1		2		2		1		
	Netherlands	% of total management employee	0		0		0		0		
		Persons	0		0		0		0		
	Others	% of total employee	0		0.15		0.10		0.10		
		Persons	0		1		1		1		
	People with Disability										
	People with disability	% of total employee	0.13		0.14		0.04		0.04		
		Persons	10		11		3		3		
401-1 (2016)	New Employee										
	New employee	Persons	236		296		231		199		
			136	100	183	113	132	99	125	74	
	New hire rate	% of total employees	3.05		3.86		3.61		2.51		
			14.40	20.87	2.39	1.47	2.06	1.55	1.58	0.93	
	New Employee by Area										
	Rayong	Persons	116	57	152	73	118	62	79	38	
		% of total employees	1.50	0.74	3.41	1.64	1.84	0.97	1	0.48	
	Bangkok	Persons	20	43	31	40	14	37	44	36	
		% of total employees	0.26	0.56	0.69	0.90	0.22	0.58	0.55	0.45	
	Other provinces	Persons	0	0	0	0	0	0	2	0	
		% of total employees	0	0	0	0	0	0	0.03	0	
	New Employee Hire by Age Group and Gender										
	<30 years	Persons	67	59	82	62	63	44	49	41	
		% of total employees	0.87	0.76	1.84	1.39	0.98	0.69	0.62	0.52	
	30 - 50 years	Persons	58	40	97	51	62	54	68	30	
		% of total employees	0.75	0.52	2.17	1.14	0.97	0.84	0.86	0.38	
	>50 years	Persons	11	1	4	0	7	1	8	3	
		% of total employees	0.14	0.01	0.09	0	0.11	0.02	0.10	0.04	
	Turnover										
	Total employee turnover rate	Persons	302		365		336		287		
			210	92	232	133	212	124	194	93	

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
		% of total employees	3.90		4.76		5.25		3.62		
			2.71	1.19	3.03	2.98	3.31	1.94	2.44	1.17	
	Voluntary employee turnover rate	Persons	226		306		266		209		
			147	79	185	121	158	108	136	73	
	% of total employees	2.92		6.86		4.15		2.63			
		1.90	1.02	4.15	2.71	2.47	1.69	1.71	0.92		
	Turnover by Age Group and Gender										
	< 30 years	Persons	44	26	54	43	39	42	36	24	
		% of total employees	0.57	0.34	1.21	0.96	0.53	0.57	0.45	0.30	
	30 - 50 years	Persons	110	50	125	71	126	80	91	47	
		% of total employees	1.42	0.65	2.80	1.59	1.70	1.08	1.15	0.59	
	> 50 years	Persons	56	16	53	19	90	26	67	22	
		% of total employees	0.72	0.21	1.19	0.43	1.21	0.35	0.84	0.28	
	Turnover by Area and Gender										
	Rayong	Persons	179	50	206	78	31	36	170	54	
		% of total employees	2.31	0.65	4.62	1.75	0.48	0.56	2.14	0.68	
	Bangkok	Persons	28	42	22	55	101	64	24	39	
		% of total employees	0.36	0.54	0.49	1.23	1.58	1	0.30	0.49	
	Other provinces	Persons	3	0	4	0	80	24	0	0	
		% of total employees	0.04	0	0.09	0	1.25	0.37	0	0	
	Open positions filled by internal candidates	%	48		71		74		89		
	Average hiring cost / FTE in the last fiscal year	Baht/FTE	32,148		38,000		37,283		38,082		
401-2	Parental Leave										
(2016),	Employees entitled to parental leave	Persons	5,544	1,946	4,389	1,708	4,412	1,725	5,497	2,067	
401-3	Employees taking parental leave	Persons	78	108	71	88	122	55	101	61	
(2016)	Employees returning to work after parental leave	Persons	75	107	71	88	117	52	101	61	
	Employees returning to work after parental leave who were still employed for 12 months after returning	Persons	75	106	68	86	117	51	97	58	
	Employees returning to work retention rate	%	96.15	98.15	95.77	97.73	95.90	92.73	96.04	95.08	
404-1	Training and Development										
(2016)	Average hours per FTE of training and development	Hours/ person/ year	25		45.26		40.33		40.33		
			33.73	96.64	40.89	39.22	44.0	36.7	44	36.7	
	Average amount spent per FTE on training and development	Baht/ person/ year	13,615		14,290.47		13,241.70		*		
	Total investment on employees training	Million baht	91.21	31.83	79.31	31.98	73.20	25.12	*	*	

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
201-1 (2016)	Average Hours of Training by Management Level and Gender									
	Average hours of training by management level	Hour /person /year	26.77	19.92	17.70	15.59	27.4	22.4	*	*
	Executive (Level 13-18)	Hour /person /year	89.78	32.74	17.19	11.58	23.6	6.4	*	*
	Middle management (Level 10-12)	Hour /person /year	26.73	26.27	17.51	13.20	26.9	28.2	*	*
	Senior (Level 8-9)	Hour /person /year	61.66	38.93	22.07	17.35	33.6	24.6	*	*
	Employee (Level 7 and below)	Hour /person /year	18.11	9.76	173.31	15.34	25.6	26.4	*	*
	Average hours of training by employee category (function) and gender									
	Average hours of training by employee category (function)	Hour /person /year	NA	NA	13.61	58.35	24.5	22.2	*	*
	Technical function	Hour /person /year	NA	NA	125.82	85.40	58.4	46.3	*	*
	Administrative	Hour /person /year	NA	NA	5.20	1.99	8.6	8.2	*	*
	Production	Hour /person /year	NA	NA	7.58	76.79	16.4	13.1	*	*
	Support function	Hour /person /year	NA	NA	14.64	44.55	14.6	21.1	*	*
	Average Hours of Training by Type of Training									
	Resilience and agility (support for business for expansion)	Hour /person/year	136.13	3.48		11.50		17.35		*
	Leader	Hour /person/year	13.90	2.19		8.45		61.21		*
	Safety	Hour /person/year	3.39	1.07		24.54		285.52		*
	Technical	Hour /person/year	2.88	3.64		8.96		33.42		*
	Others	Hour /person/year	0.96	1.03		10.36		285.48		*
	Average Spent of Training by Management Level									
	Executive (Level 13-18)	Baht/person /year		52,080.51		8,740.04		15,193.35		*
	Middle management (Level 10-12)	Baht/person /year		13,325.11		5,430.49		479.55		*
	Senior (Level 8-9)	Baht/person /year		32,822.27		8,895.09		6,005.03		*
	Employee (Level 7 and below)	Baht/person /year		8,062.62		4,104.49		1,370.28		*
	Average Spent of Training by Type of Training									
	Resilience and agility (support for business for expansion)	Baht/person/year		3,584.12		3,584.12		4,120.01		*
	Leadership	Baht/person/year		1,574.58		1,574.58		16,454.49		*
	Occupational health and safety	Baht/person/year		383.12		383.12		1,866.99		*
	Technical	Baht/person/year		2,036.22		2,036.22		2,743.63		*
	Others	Baht/person/year		585.38		585.38		9,167.10		*
201-1 (2016)	Quantitative financial benefit of human capital investment over time	Million baht		85.72		118.40		206.34		113
	(a) Total revenue	Million baht		465,128		545,407		617,918		604,045
	(b) Total operating expenses	Million baht		433,402		534,473		19,244		23,078
	(c) Total employee-related expense (salaries + benefits)	Million baht		15,172		8,746		9,108		10,039
	Resulting HC ROI: (total revenue - (total operating expenses - total employee related expenses)) / total employee related expenses	-		3.09		0.25		67		59

* To be updated in the end of July 2025

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
404-3	Type of Performance Appraisal										
(2016)	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	72		65		65		77		
			72	56	72	47	71	50	81	67	
	Employee engagement target	% of actively engaged employees	75		75		72		68		
	Coverage	% of employees who responded to the survey	98		97		98		99		
	Employee Engagement by Age Group and Gender										
	Under 25 years	% of actively engaged employees	75	53	84	NA	80	NA	92	69	
	25 - 34 years	% of actively engaged employees	65	43	62	34	65	43	76	61	
	35 - 44 years	% of actively engaged employees	71	52	72	45			76	61	
	45 - 54 years	% of actively engaged employees	80	70	78	62	77	62	85	78	
	55 years and above	% of actively engaged employees	76	78	75	69	71	65	86	60	
	404-3	Employee Receiving Regular Performance and Career Development Reviews (excl. People in Unclassified Group) by Level									
	(2016)	Executive (Level 13-18)	Persons	38	10	42	17	42	17	32	10
% of total executive employee			100	100	100	100	100	100	100	100	
Middle management (Level 10-12)		Persons	567	239	523	269	634	277	648	292	
		% of total middle management employee	100	100	100	100	100	100	100	100	
Senior (Level 8-9)		Persons	978	527	1,167	571	1,258	608	1241	658	
		% of total senior employee	100	100	100	100	100	100	100	100	
Employee (Level 7 and below)		Persons	3,092	932	2,977	882	2,743	823	3,948	1,107	
		% of total employee (level 7 and below)	100	100	100	100	100	100	100	100	

* To be updated in the end of July 2025

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
405-1	Gender Diversity and Equal Remuneration									
(2016)	Women in workforce	Persons	*	*	*	*	*	*	*	
		% of total workforce	*	*	*	*	*	*	*	
		% of target at fiscal year	*	*	*	*	*	*	*	
	Women in management positions	Persons	*	*	*	*	*	*	*	
		% of total management workforce	*	*	*	*	*	*	*	
		% of target at fiscal year	*	*	*	*	*	*	*	
	Women in top management positions	Persons	*	*	*	*	*	*	*	
		% of total top management positions	*	*	*	*	*	*	*	
		% of target at fiscal year	*	*	*	*	*	*	*	
	Women in junior management positions	Persons	*	*	*	*	*	*	*	
		% of total junior management positions	*	*	*	*	*	*	*	
		% of target at fiscal year	*	*	*	*	*	*	*	
	Women in management positions in revenue generating functions e.g. Sales, Marketing, Operation and BD that under BU.	Persons	*	*	*	*	*	*	*	
		% of total managers in revenue generating functions	*	*	*	*	*	*	*	
		% of target at fiscal year	*	*	*	*	*	*	*	
	Women in STEM-related positions ¹	Persons	*	*	*	*	*	*	*	
		% of total STEM positions	*	*	*	*	*	*	*	
		% of target at fiscal year	*	*	*	*	*	*	*	
	Number of women on board of directors/supervisory board	Persons	*	*	*	*	*	*	*	
		%	*	*	*	*	*	*	*	
	405-2	Ratio Salary (Average Female Salary / Average Male Salary)								
(2016)	Executive (Level 13-18): Base salary	Ratio	*	*	*	*	*	*	1.00	1.02
		Baht	*	*	*	*	*	*	4,958,101	5,045,868
	Executive (Level 13-18): Base salary + other cash incentives	Ratio	*	*	*	*	*	*	1.00	1.05
		Baht	*	*	*	*	*	*	6,713,849	7,016,156

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

* To be updated in the end of July 2025

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Management (Level 10-12): Base salary	Ratio	*	*	*	*	*	*	1.00	0.27
		Baht	*	*	*	*	*	*	17,782,231	4,821,125
	Management (Level 10-12): Base salary + Others cash incentives	Ratio	*	*	*	*	*	*	1.00	0.29
		Baht	*	*	*	*	*	*	21,711,962	6,252,315
	Non-managment (Level 9 and below): Base salary	Ratio	*	*	*	*	*	*	1.00	0.29
		Baht	*	*	*	*	*	*	82,606,151	24,279,143
	Difference Between Men and Women Employees									
	Mean gender pay gap (%)	%		*		*		*		6
	Median gender pay gap (%)	%		*		*		*		9
	Mean bonus gap (%)	%		*		*		*		-7.69
	Median bonus gap (%)	%		*		*		*		-16.21
2-9 (2021)	Board Structure									
	Total number of board members	Persons		15		14		15		15
	Number of executive director	Persons		1		1		1		1
	Number of non-executive directors (excl. independent directors)	Persons		6		4		1		5
	Number of independent directors	Persons		8		9		13		9
-	Number of independent directors (DJSI Definition) ¹	Persons		14		13		14		13
2-30 (2021)	Labor Practice Indicators									
	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.

* To be updated in the end of July 2025

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			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	Persons	7,745		7,668		6,405		8,407		
		%	100		100		100		100		
	Covered by such a system that has been internally audited	Persons	7,745		7,668		6,405		8,407		
		%	100		100		100		100		
	Covered by such a system that has been audited or certified by an external party	Persons	7,745		7,668		6,405		8,407		
		%	100		100		100		100		
	Contractor ¹										
	Covered by an occupational health and safety management system	Persons	1,231		2,819		805		741		
		%	100		100		100		100		
	Covered by such a system that has been internally audited	Persons	1,231		2,819		805		741		
		%	100		100		100		100		
	Covered by such a system that has been audited or certified by an external party	Persons	1,231		2,819		805		741		
		%	100		100		100		100		
	403-9 (2018)	Fatalities as a Result of Work-Related Injury									
		Employees	Case	0		1		0		0	
0				0	1	0	0	0	0	0	
Rayong		Case	0	0	1	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 ¹		Case	0		1		0		0		
			0	0	1	0	0	0	0	0	
Rayong		Case	0	0	1	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 Fatalities as a Result of Work-Related Injury											
Employees		Case/1 million manhours	0		0.06		0		0		
			0	0	0.07	0	0	0	0	0	
Rayong		Case/1 million manhours	0	0	0.07	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		0.09		0		0			
		0	0	0.06	0.21	0	0	0	0		
Rayong	Case/1 million manhours	0	0	0.06	0.21	0	0	0	0		

¹ Worker (excludes employees) refers to significant workers that are contractors

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Bangkok	Case/1 million manhours	0	0	0.06	0.21	0	0	0	0
	Other provinces	Case/1 million manhours	0	0	0.06	0.21	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	8		8		1		3	
			8	0	7	1	1	0	3	0
	Rayong	Case	8	0	7	1	1	0	3	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	22		13		16		5	
			20	2	12	1	13	3	5	0
	Rayong	Case	20	2	12	1	13	3	5	0
	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								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
403-9 (2018)	Recordable Work-Injuries Rate (IR) ¹										
	Employees	Case/1 million	0.48		0.46		0.06		0.33		
		manhours	0.61	0	0.52	0.26	0.08	0	0.33	0	
	Rayong	Case/1 million	0.61	0	0.52	0.26	0.08	0	0.33	0	
		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	1		0.59		0.77		0.38		
		manhours	1.17	0.41	0.69	0.21	0.81	0.63	0.39	0	
	Rayong	Case/1 million	1.17	0.41	0.69	0.21	0.81	0.63	0.39	0	
		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	16,811,726		17,270,017		16,830,173		17,242,920		
	Contractor ²	Manhours	21,955,817		22,126,292		20,779,999		12,783,596		
Lost-Time Injury Frequency Rate (LTIFR)											
Employees	Case	1		0		0		0			
	Case/1 million manhours	0.06		0		0		0			
Data coverage	% of revenue	100		100		100		100			
Contractors ²	Case	7		2		5		0			
	Case/1 million manhours	0.32		0.09		0.24		0			
Data coverage	% of revenue	100		100		100		100			
Lost Work Day (LWD) & Lost Day Rate (LDR)											
Employees	Case	0		0		0		0			
	Case/1 million manhours	0		0		0		0			
	Contractors ²	Case	14		0		216		0		
		Case/1 million manhours	1		0		10.39		0		
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		
			0	0	0	0	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							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	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 (2018)	Number of Cases of Recordable 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	
			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		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
	Occupational Health and Safety									
G4- OG13	Process Safety Events - Tier 1									
	Number per million hours worked	Number	0		2		1		0	
	By business activity: production	Number	0		2		1		0	
	By business activity: transportation	Number	0		0		0		0	
	By business activity: storage	Number	0		0		0		0	
	By business activity: other	Number	0		0		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 (excludes employees) refers to significant workers that are contractors.

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Process Safety Events - Tier 2									
	Number per million hours worked	Number	4		4		1		5	
	By business activity: production	Number	4		4		1		5	
	By business activity: transportation	Number	0		0		0		0	
	By business activity: storage	Number	0		0		0		0	
	By business activity: other	Number	0		0		0		0	
	Data coverage	% of revenue	100		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		1225		0		0	
		Case	56	2	1219	6	0	0	0	0
	Rayong	Case	45	1	1199	1	0	0	0	0
	Bangkok	Case	11	1	20	5	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0
	Contractors	Case	87		371		0		0	
		Case	63	24	302	69	0	0	0	0
	Rayong	Case	60	24	301	68	0	0	0	0
	Bangkok	Case	3	0	1	1	0	0	0	0
	Other provinces	Case	0	0	0	0	0	0	0	0

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
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	10	11	12	13
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	9	9	7
2-9	Board Effectiveness					
(2021)	Average board meeting attendance	% of meetings of board of directors/ supervisory board	99.5	99.5	99.1	98.9
	Minimum of attendance for all members required, at least	%	75	76	75	75
	Number of non-executive/ independent directors with 4 or less other mandates	Number	14	13	14	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	2.7	1.5	2.4
2-19	Executive Compensation – Alignment with Long-term Performance					
(2021)	The longest performance period covered by your executive compensation plan	Year	0	0	0	0
	The longest time vesting period for variable CEO compensation	Year	0	0	0	0
2-21	Transparency of Executive Compensation					
(2021)	Total compensation of CEO	Baht	15,349,000	22,460,000	17,799,000	18,546,000
	Salary of CEO	Baht	11,150,000	12,454,000	13,178,000	13,522,000
	Bonus of CEO	Baht	3,102,000	8,827,000	3,300,000	3,844,000
	Provident Fund of CEO	Baht	1,097,000	1,179,000	1,321,000	1,180,000
	Total compensation of Executives (except the CEO)	Baht	49,736,000	56,358,000	142,360,671	76,302,000
	Salary of Executives (except the CEO)	Baht	35,294,000	34,832,000	109,087,320	49,144,000
	Bonus of Executives (except the CEO)	Baht	9,681,000	16,739,000	22,878,124	19,970,000
	Provident Fund of Executives (except the CEO)	Baht	4,761,000	4,787,000	10,395,227	7,188,000
	Total compensation of Executives (Executive Vice President)	Baht	72,868,000	105,626,000	101,093,920	95,617,000
	Salary of Executives (Executive Vice President)	Baht	52,356,000	59,671,000	71,746,520	63,626,000
	Bonus of Executives (Executive Vice President)	Baht	13,168,000	37,561,000	20,033,400	23,172,000
	Provident Fund of Executives (Executive Vice President)	Baht	7,344,000	8,394,000	9,314,000	8,819,000
	Total compensation of Executives (Senior Vice President)	Baht	204,467,000	253,571,000	218,158,903	186,464,610
	Salary of Executives (Senior Vice President)	Baht	146,240,000	147,590,000	153,411,024	152,316,040
	Bonus of Executives (Senior Vice President)	Baht	38,711,000	85,875,000	44,627,682	13,852,069
	Provident Fund of Executives (Senior Vice President)	Baht	19,516,000	20,106,000	20,120,197	20,296,501
2-21	Disclosure of Median or Mean Compensation of all Employees & CEO Compensation					
(2021)	Median annual compensation of all employees, except the CEO	Baht	1,407,000	989,0183	1,546,000	1,694,000
	Mean annual compensation of all employees, except the CEO	Baht	1,724,000	1,160,163	1,860,000	2,005,000

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Ratio of the median employee compensation and the total annual compensation of the CEO	Ratio	11	23	11.51	10.95
	Ratio of the mean employee compensation and the total annual compensation of the CEO	Ratio	9	19	9.57	9.25
-	Management Ownership Requirements					
	Number of a company share that CEO hold	Times of the annual base salary	10	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	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	1.38	0.91	0.91	0.48
-	Government Ownership					
	The total percentage of government ownership (sum of % of individual governmental institutions owning more than 5% of voting rights)	%	45.18	24.35	24.38	24.35
-	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	NA	NA	NA	NA
-	Dual Class Shares					
	Amount of shares with no vote	Number of shares	408,946,417	392,116,551	344,333,936	0
	Amount of shares with one vote	Number of shares	4,099,902,700	4,116,732,566	4,164,515,181	4,508,849,117
	Voting Power (= Votes per share x Amount of Share)	Total number of votes	4,099,902,700	4,116,732,566	4,164,515,181	4,508,849,117
Risk and Crisis Management						
-	Risk Governance					
	Number of non-executive members of board of directors/supervisory board with expertise in (enterprise) risk management	Persons	14	13	14	14
Compliance						
205-2 (2016)	Anti-Bribery and Corruption (ABC)					
	ABC has been communicated to Governance body members ¹					
	Governance body members that the organization's anti-corruption policies and procedures have been communicated to	Persons	27	30	68	49
		% 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	Persons	13	12	29	23
		% of governance body members	100	100	100	100

¹ For the fiscal years 2021-2022, the count of governance body members does not include employees worked at secemend within the GC group.

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Bangkok	Persons	13	18	39	26
		% of governance body members	100	100	100	100
	Other provinces	Persons	1	NA	NA	NA
		% of governance body members	100	NA	NA	NA
	ABC communicated to employees					
	Employees that anti-corruption policies and procedures have been communicated to	Persons	7,920	7,668	7,425	8,711
		%	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	Persons	27	30	68	49
		% of employees	100	100	100	100
	Management	Persons	582	1,010	1,031	1,046
		% of employees	100	100	100	100
	Non-management	Persons	7,311	6,628	6,326	7,548
		% 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	Persons	7,100	6,439	6,225	7,532
		% of employees	100	100	100	100
	Bangkok	Persons	819	1,176	1,142	1,124
		% of employees	100	100	100	100
	Other provinces	Persons	1	53	58	55
		% of employees	100	100	100	100
	ABC has been communicated to business partner					
	Business partners that anti-corruption policies and procedures have been communicated to	Persons	607	362	386	604
		%	100	100	100	100
	Total number and percentage of <u>business partners</u> that anti-corruption policies and procedures have been communicated to, by <u>type of business partner</u>					
	Contractors / Suppliers / Service Providers	Persons	607	352	380	496
		% of business partners	100	100	100	82
	Subsidiaries	Persons	28	32	27	57
		% of business partners	100	100	100	100
	Joint ventures (including stakes above 10%)	Persons	5	16	18	18
		% of business partners	36	100	39	39
	Total number and percentage of <u>business partners</u> that the anti-corruption policies and procedures have been communicated to, by <u>region</u>					
	Rayong	Persons	154	86	100	144
		% of business partners	25.30	23.76	26.32	29.11
	Bangkok	Persons	378	199	195	268
		% of business partners	62.30	54.97	51.32	54.11
	Other provinces	Persons	75	77	85	83
		% of business partners	12.40	21.27	22.38	16.77

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	<u>Governance body members training on ABC¹</u>					
	Governance body member training on Anti-Bribery and Corruption (ABC)	Persons	27	30	68	49
		%	100	100	100	100
	Total number and percentage of <u>governance body members</u> training on Anti-Bribery and Corruption (ABC), by <u>region</u>					
	Rayong	Persons	13	12	29	23
		% of governance body members	100	100	100	100
	Bangkok	Persons	13	18	39	26
		% of governance body members	100	100	100	100
	Other provinces	Persons	1	NA	NA	NA
		% of governance body members	100	NA	NA	NA
	<u>Employees training on ABC</u>					
	Employee training on Anti-Bribery and Corruption (ABC)	Persons	7,920	7,668	7,425	8,711
		% of total employees	100	100	100	100
	Total number and percentage of <u>employees</u> training on Anti-Bribery and Corruption (ABC), by <u>employee category</u>					
	Senior executive	Persons	27	30	68	49
		% of senior executive	100	100	100	100
	Management	Persons	582	1,010	1,031	1,046
		% of management employee	100	100	100	100
	Non-management	Persons	7,311	6,628	6,326	7,548
		% of non-management employee	100	100	100	100
	Total number and percentage of <u>employees</u> training on Anti-Bribery and Corruption (ABC), by <u>region</u>					
	Rayong	Persons	7,100	6,439	6,225	7,532
		% of employee in Rayong	100	100	100	100
	Bangkok	Persons	819	1,176	1,142	1,124
		% of employee in Bangkok	100	100	100	100
	Other provinces	Persons	1	53	58	55
		% of employee in other provinces	100	100	100	100
205-2 (2016)	<u>Codes of Business Conduct: Coverage</u>					
	<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 2021-2022, 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			
			2021	2022	2023	2024
	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
	Coverage of codes of conduct written acknowledgement has been obtained in the past three years					
	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	100	100	100
	Coverage of codes of conduct training has been provide in the past three years					
	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
	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					
	Number of code of conduct breaches reporting					
	Code of Conduct complaints	Case	10	5	9	13
	Corruption	Case	1	0	2	1
	Privacy	Case	0	0	0	0
	Money laundering or insider trading	Case	0	0	0	0
	Conflict of interest	Case	7	0	2	3
	Corporate compliance	Case	2	5	5	9
	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			
			2021	2022	2023	2024
	Number of code of conduct breaches ongoing investigation in the reporting year					
	Code of Conduct complaints	Case	3	0	0	0
	Corruption	Case	0	0	0	0
	Privacy	Case	0	0	0	0
	Money laundering or insider trading	Case	0	0	0	0
	Conflict of interest	Case	3	0	0	0
	Corporate compliance	Case	0	0	0	0
	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
	Number of confirmed cases of code of conduct breaches					
	Code of Conduct complaints	Case	1	0	4	3
	Corruption	Case	0	0	2	1
	Privacy	Case	0	0	0	0
	Money laundering or insider trading	Case	0	0	0	0
	Conflict of interest	Case	1	0	0	1
	Corporate compliance	Case	0	0	2	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
206-1 (2016)	Details of actions taken against the substantiated cases					
	Verbal warning	Case	3	6	2	1
	Written warning	Case	2	3	2	0
	Dismissal	Case	18	6	6	2
	Other (contract termination)	Case	0	4	0	0
2-27 (2021)	Total number of significant instances of non-compliance with laws and regulations during the reporting period					
	Instances for which fines were incurred					
	Total number of cases	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
	Instances for which non-monetary sanctions were incurred					
	Total number of cases	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
	Total number and the monetary value of fines for instances of noncompliance with laws and regulations that were paid during the reporting period					
	Fines for instances of non-compliance with laws and regulations that occurred in the current reporting period					
	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			
			2021	2022	2023	2024
	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
KPIs for Supplier Screening						
2-6 (2021)	Total number of Tier-1 suppliers	Number	3,890	4,242	4,241	4,195
	Total number of significant suppliers in Tier-1	Number	92	84	153	198
	% of total spend on significant suppliers in Tier-1	% of total spend	59	30	56	61
	Total number of significant suppliers in non Tier-1	Number	NA	NA	0	0
	Total number of significant suppliers (Tier-1 and non Tier-1)	Number	92	84	153	198
KPIs for Supplier Assessment and Development						
308-2 (2016)	Total number of suppliers assessed via desk assessments/on-site assessments	Number	92	84	153	72
414-2 (2016)	Total number of suppliers assessed via desk assessments/on-site assessments target at fiscal year	Number	NA	84	153	72
	% of significant suppliers assessed	% of significant suppliers	NA	100	100	36
	Number of suppliers assessed with substantial actual/potential negative impacts	Number	NA	0	11	7
	% of suppliers with substantial actual/potential negative impacts with agreed corrective action/improvement plan	% of significant suppliers	NA	0	100	100
	Number of suppliers with substantial actual/potential negative impacts that were terminated	Number	NA	0	0	0
	Total number of suppliers supported in corrective action plan implementation	Number	NA	0	11	7
	Total number of suppliers supported in corrective action plan implementation target at fiscal year	Number	NA	0	11	7
	% of suppliers assessed with substantial actual/potential negative impacts supported in corrective action plan implementation	% of significant suppliers	NA	0	100	100
	Total number of suppliers in capacity building programs	Number	NA	4	11	93
	Total number of suppliers in capacity building programs target at fiscal year	Number	NA	NA	11	93
	% of significant suppliers in capacity building programs	% of significant suppliers	NA	4.8	7.2	14.14
Corporate Social Responsibility						
201-1 (2016)	Philanthropic Activities					
	Total contributions	Million Baht	391.07	142.29	106.28	72.77
	Charitable donations	Million Baht	19.44	43.45	37.83	23.27
		% of total cost	4.97	30.21	35.60	31.97
	Community investments	Million Baht	322.76	77.27	56.54	46.91
		% of total cost	82.53	53.72	53.20	64.46
	Commercial initiatives	Million Baht	48.87	21.58	11.91	2.59
		% of total cost	12.50	15	11.20	3.56

Social and Relationship Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Input					
	Management overheads	Million Baht	41.30	56.22	45.76	*
	Employee volunteering time during paid working hours	Million Baht	4.70	9.40	9.74	11.09
		Hour	12,575	24,679	24,867	27,615
	Cash contribution	Million Baht	302.22	94.98	77.35	48
	Products or services donations	Million Baht	78.18	26.57	24.69	19.85
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	%	91.25	90.46	92.38	92.72
	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	96
	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	94
	Data coverage	% of key clients	100	100	100	100
	Customer satisfaction target at fiscal year	%	90	90	90	93

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.

* To be updated in the end of July 2025

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
301-1 (2016)	Material					
	Total material used	Million tons	23.24	22.59	24.99	23.42
	Non renewable material	Million tons	22.72	22.07	24.45	22.95
	Renewable material	Million tons	0.52	0.52	0.54	0.47
301-2 (2016)	Recycled input materials used	%	2	2	2	2
302-1 (2016)	Energy Consumption					
	Total energy consumed	MWh	43,155,521.49	36,882,002.30	39,301,803.77	36,410,566.73
	Percentage grid electricity	%	8.15	7.44	7.95	6.41
	Percentage renewable	%	0	0	0.02	0.03
	Total self-generated energy	MWh	19,427,722.85	18,325,256.79	21,019,448.28	19,562,256.39
	Total direct non-renewable energy consumption	MWh	35,611,872.36	31,365,326.88	33,778,672.42	33,707,316.68
	Natural gas	MWh	15,985,482.61	12,825,626.08	12,448,018.55	13,890,581.99
	LPG	MWh	4,773.27	4,591.40	4,467.20	54,245.33
	Diesel	MWh	94.09	701.79	789.70	820.22
	Pyrolysis gas oil	MWh	99,408.65	48,293.59	97,164.20	28,464.99
	Recovered volatile (RV)	MWh	7,744.94	2,031.38	0	5,750.27
	Foul hexane	MWh	4,327.23	8,599.05	8,256.05	0
	Fuel oil	MWh	82,318.72	150,226.80	203,037.08	169,486.73
	Fuel gas	MWh	19,427,722.85	18,325,256.79	21,016,939.64	19,557,967.16
	Total indirect energy consumption by primary energy source	MWh	12,330,988.14	9,883,926.43	11,199,182.70	8,643,873.77
	Steam / heating / cooling and other energy (non-renewable) purchased for consumption	MWh	8,814,668.85	7,114,719.25	8,073,448.39	8,643,873.77
	Electricity (non-renewable) purchased	MWh	3,516,319.28	2,742,560.64	3,125,734.31	2,332,510.05
	Steam (non-renewable) purchased	MWh	8,785,031.42	7,114,719.25	8,073,448.39	6,311,363.71
	Cooling (non-renewable) purchased	MWh	29,637.44	26,646.54	0	0
	Total non-renewable energy sold	MWh	5,658,391.60	5,278,408.27	5,682,255.09	5,951,392.25
	Electricity sold	MWh	2,000,757.64	2,066,431.02	2,088,174.73	2,150,186.10
	Steam sold	MWh	3,578,010.73	3,208,432.25	3,591,924.74	3,797,314.88
	Return steam condensate sold	MWh	79,623.23	3,545.01	2,155.62	3,891.26
	Heating sold	MWh	0	0	0	0
	Cooling sold	MWh	0	0	0	0
	Total non-renewable energy consumption within the organization	MWh	35,413,205.46	31,150,882.88	33,464,958.19	33,448,549.15
	Total renewable energy (wind, solar, biomass, hydroelectric, geothermal, etc.) purchased or generated	MWh	1,249.49	1,339.37	6,203.73	10,768.53
	Solar cell	MWh	1,249.49	1,339.37	3,695.09	6,479.29
	Wind turbine	MWh	0	0	2,508.64	4,289.24
	Total energy consumption within the organization from non-renewable sources	MWh	42,032,373.73	36,617,809.09	39,295,600.03	36,399,798.20
-	Total cost of energy consumption	Million Baht	42,032,374	*	*	*
	Data coverage	% of production volume	100	100	100	100
	Total non-renewable energy consumption target at fiscal year	MWh	49,983,728	37,026,601	33,464,958	33,448,549

* To be updated in the end of July 2025

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
302-2 (2016)	Energy consumption outside of the organization	MWh	*	*	*	*
302-3 (2016)	Total energy intensity ¹	MWh/ton production	NA	NA	NA	NA
302-4 (2016)	Total energy saved by efforts to reduce energy use and increase energy efficiency	MWh	293,991.06	400,235.70	205,386.20	267,167.23
	Fuel savings	MWh	127,050.20	228,350.81	69,741.29	59,029.76
	Total indirect energy saved from initiatives to reduce indirect energy use	MWh	166,940.86	171,884.89	135,644.91	208,137.47
	Electricity savings	MWh	22,320.75	10,189.93	10,848.98	24,426.40
	Steam savings	MWh	144,620.11	161,694.96	124,795.93	183,711.07
	Greenhouse Gas Emissions (GHGs) ²					
305-1 (2016)	Total direct GHGs emissions (scope 1) ³	Million tons CO ₂ equivalent	6.52	6.14	6.13	6.16
	Direct GHG emissions from methane	Million tons CO ₂ equivalent	0.38	0.32	0.35	0.33
	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	*
	Total biogenic CO ₂ emissions (scope 1)	Tons CO ₂ equivalent	87	150	166	149
305-2 (2016)	Indirect GHGs emissions from energy purchased and consumes (scope 2) ²	Million tons CO ₂ equivalent	2.03	2.04	1.83	1.91
	Market-based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	2.03	2.04	1.83	1.91
	Target of market-based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	NA	NA	NA	*
	Location-based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	2.06	2.04	1.81	1.82
	Target of location-based energy indirect (scope 2) GHG emissions	Million tons CO ₂ equivalent	*	*	*	*
	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	*
305-3 (2016)	Other relevant indirect GHG emission (scope 3) ^{2,4}	Million tons CO ₂ equivalent	39.8	37.6	42.4	41.5
	Other relevant indirect GHG emission (scope 3) target at fiscal year	Million tons CO ₂ equivalent	NA	NA	NA	NA
	Total biogenic CO ₂ emissions (scope 3)	Tons CO ₂ equivalent	NA	NA	NA	1,997.47
305-4 (2016)	GHG emission intensity (scope 1 & 2) ⁵	Tons CO ₂ equivalent/ tons production	NA	NA	NA	0.37

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 The GHG emission of JV has already been reported under scope3, category 15. 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 products), 6) Processing of sold products, 7) Use of sold products, 8) End-of-life treatment of sold products, 9) Investment.

⁵ Types of GHGs emissions, which are direct (scope 1) and energy indirect (scope 2), included in the intensity ratio.

* To be updated in the end of July 2025

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
305-5 (2016)	Total estimated annual CO ₂ savings ²	Tons CO ₂ equivalent	63,333	59,903	36,981	39,351
-	GHG annual reduction target at fiscal year	Tons CO ₂ equivalent	NA	NA	30,000	21,641
305-7 (2016)	NO _x , SO _x , and Other Significant Air Emissions ¹					
	Volatile organic compounds (VOCs)	Tons VOCs	673	618	727	699
	Data coverage	% of production volume	100	100	100	100
	VOCs target at fiscal year	Tons VOCs	NA	NA	NA	705
	VOCs intensity	Tons VOCs/ million tons production	35	33	32	32
	Nitrogen oxides (NO _x) emissions	Tons NO _x	3,910	3,213	3,286	3,437
	Data coverage	% of production volume	100	100	100	100
	NO _x emissions target at fiscal year	Tons NO _x	NA	NA	NA	3,470
	NO _x intensity	Tons NO _x / million tons production	176.10	152.56	139.84	156.29
	Sulfur oxides (SO _x) emissions	Tons SO _x	336	492	414	566
	Data coverage	% of production volume	100	100	100	100
	SO _x emissions target at fiscal year	Tons SO _x	NA	NA	NA	570
	SO _x intensity	Tons SO _x / million tons production	16	17	15	26
	Total suspended particulate (TSP)	Tons	NA	NA	NA	NA
	TSP intensity	Tons/ million tons production	NA	NA	NA	NA
	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	49.14	50.26	50.74	54.28
	Withdrawal: Fresh surface water	Million m ³	0.51	0.28	0.41	0.55
	Withdrawal: Fresh ground water	Million m ³	0.01	0	0.01	0.01
	Discharge: Water returned to extraction source at similar or higher quality as raw water extracted	Million m ³	NA	NA	NA	NA
	Water withdrawal (excluding salt water)	Million m ³	49.66	50.54	51.16	54.83
	Water discharge (excluding salt water)	Million m ³	8.26	8.65	8.71	9.64
	Total net fresh water consumption	Million m ³	41.40	41.90	42.44	45.19

¹ 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.

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

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	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	45.26
	Total water consumption from all areas	Mega litres	41.40	41.90	42.44	45.19
	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 (2018)	Water Withdrawal					
	Total water withdrawal from all areas	Mega litres	57,853.96	58,164.10	58,284.89	63,054.36
	Fresh water ($\leq 1,000$ mg/L TDS ¹)	Mega litres	49,655.19	50,544.70	51,155.10	54,833.20
	Surface water	Mega litres	510.21	284.69	411.89	552.45
	Groundwater	Mega litres	5.11	4.64	6.92	5.66
	Seawater	Mega litres	0	0	0	0
	Produced water	Mega litres	0	0	0	0
	Third-party water	Mega litres	49,139.87	50,255.37	50,736.29	54,275.10
	Other water ($> 1,000$ mg/L TDS).	Mega litres	8,198.77	7,619.40	7,129.79	8,221.16
	Surface water	Mega litres	0	0	0	0
	Groundwater	Mega litres	0	0	0	0
	Seawater	Mega litres	8,149	7,569	6,998	8,012.71
	Produced water	Mega litres	0	0	0	0
	Third-party water	Mega litres	50	50	132	208
	Total water withdrawal from all areas with water stress	Mega litres	NA	NA	NA	NA
	Fresh water ($\leq 1,000$ mg/L TDS)	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

¹ TDS – Total dissolved solids

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Produced water	Mega litres	NA	NA	NA	NA
-	Water consumption intensity	m ³ / ton production	0.00197	0.00207	0.00196	0.00205
	Water reused	Mega litres	14,041.52	10,350.73	19,050.22	16,368.13
	Water recycled	Mega litres	2,050.79	1,655.01	1,928.69	1,870.50
	Total Water recycled & water reused	Mega litres	16,092.31	14,353.07	20,978.91	18,238.63
	% of total water withdrawal		28	25	36	29
303-4	Water Discharge ¹					
(2018)	Total water discharge to all areas	Mega litres	17,249.67	17,974.85	18,288.10	20,139.87
	Fresh water (≤1,000 mg/L TDS)	Mega litres	NA	NA	NA	NA
	Surface water	Mega litres	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA
	Groundwater	Mega litres	NA	NA	NA	NA
	Seawater	Mega litres	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA
	Third-party water sent for use to other organizations	Mega litres	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA
	Other water (>1,000 mg/L TDS).	Mega litres	17,249.67	17,974.85	18,288.10	20,139.87
	Surface water	Mega litres	702	768	708	1,197
	BOD loading	Tons	NA	NA	NA	NA
	COD loading	Tons	6.47	6.42	7.82	9.64
	Groundwater	Mega litres	0	0	0	
	Seawater	Mega litres	8,992	9,325	9,575	10,497.38
	COD loading	Tons	133.49	133.67	162.98	234.83
	Third-party water sent for use to other organizations	Mega litres	7,556	7,881	8,005	8,445
	BOD loading	Tons	NA	NA	NA	NA
	COD loading	Tons	1,464.39	1,269.52	1,075.16	872
	Total direct COD	Tons	1,604	1,410	1,246	1,116
	Data coverage	% of production volume	100	100	100	100
	Total direct COD target at fiscal year	Tons COD	NA	NA	NA	1,180
	Total water discharge to areas with water stress	Mega litres	17,250	17,975	18,288	20,140
	Fresh water (≤1,000 mg/L TDS)	Mega litres	0	0	0	0
	Other water (>1,000 mg/L TDS)	Mega litres	17,250	17,975	18,288	20,140
306-3	Routine Waste Generation					
(2020)	Total waste generated	Tons	184,599.27	136,521.28	121,023.04	85,219
	Total hazardous waste generated (as defined by national legislation)	Tons	138,420.52	95,486.50	85,920.96	51,184.75
	Data coverage	% of production volume	100	100	100	100
	Total hazardous waste disposal target at fiscal year	Tons	NA	NA	NA	47,000

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			
			2021	2022	2023	2024
	Total non-hazardous waste generated (as defined by national legislation)	Tons	46,178.75	41,034.79	35,102.08	34,034.25
	Data coverage	% of production volume	100	100	100	100
	Total Non-Hazardous Waste disposal target at fiscal year	Tons	NA	NA	NA	4,300
306-4 (2020)	Total weight of waste diverted from disposal	Tons	41,201.61	41,198.40	34,164.17	37,410.62
	Total hazardous waste diverted from disposal	Tons	20,111.27	11,688.28	6,810.40	6,671.52
	Preparation for reuse	Tons	10,909.66	738.61	24.13	177.13
	Onsite	Tons	0	0	0	0
	Offsite	Tons	10,909.66	738.61	24.13	177.13
	Recycling	Tons	8,654.98	10,062.03	4,779.05	5,768.86
	Onsite	Tons	0	0	0	0
	Offsite	Tons	8,654.98	10,062.03	4,779.05	5,768.86
	Other recovery operations	Tons	546.63	887.64	2,007.22	725.54
	Onsite	Tons	0	0	0	0
	Offsite	Tons	546.63	887.64	2,007.22	725.54
	Percentage of hazardous waste recycled	% of hazardous waste recycled	14.53	12.24	7.93	13.03
	Total non-hazardous waste diverted from disposal ¹	Tons	21,090.35	29,510.12	27,353.77	30,739.10
	Preparation for reuse	Tons	1,026.42	1,721.48	943.76	592.05
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1,026.42	1,721.48	943.76	592.05
	Recycling	Tons	19,912.98	27,463.97	25,969.39	29,722.02
	Onsite	Tons	0	0	0	0
	Offsite	Tons	19,912.98	27,463.97	25,969.39	29,722.02
	Other recovery operations	Tons	150.95	324.68	440.62	425.03
	Onsite	Tons	0	0	0	0
	Offsite	Tons	150.95	324.68	440.62	425.03
306-5 (2020)	Total weight of waste directed to disposal	Tons	143,398	95,323	86,859	47,808.38
	Total hazardous waste directed to disposal	Tons	118,309	83,798	79,111	44,513
	Incineration (with energy recovery)	Tons	105,926.43	58,354.38	64,699.09	30,624.77
	Onsite	Tons	0	0	0	0
	Offsite	Tons	105,926.43	58,354.38	64,699.09	30,624.77
	Incineration (without energy recovery)	Tons	12,361.50	25,350.46	13,171.54	13,692.90
	Onsite	Tons	0	0	0	0
	Offsite	Tons	12,361.50	25,350.46	13,171.54	13,692.90
	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	21.32	93.37	1,239.93	195.55
	Onsite	Tons	0	0	0	0

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.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Offsite	Tons	21.32	93.37	1,239.93	195.55
	Total non-hazardous waste directed to disposal	Tons	25,088.40	11,524.67	7,748.32	3,295.15
	Incineration (with energy recovery)	Tons	23,704.80	7,395.33	6,929.91	2,937.10
	Onsite	Tons	0	0	0	0
	Offsite	Tons	23,704.80	7,395.33	6,929.91	2937.10
	Incineration (without energy recovery)	Tons	1.27	8.64	11.80	5
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1.27	8.64	11.80	5
	Secured Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Other disposal operations (Land reclamation)	Tons	1,382.34	4,120.70	806.61	353.05
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1,382.34	4,120.70	806.61	353.05
-	Municipal waste to sanitary landfill	Tons	2,316.13	2,248.62	2,019.84	2,033.02
306-3 (2020)	Non-routine Waste Generation ¹					
	Total waste generated	Tons	268,333	41,524	7,244.57	234.50
	Hazardous waste generated (as defined by national legislation)	Tons	106,957	970	2,003.70	204.35
	Total non-hazardous waste generated (as defined by national legislation)	Tons	161,376	40,554	5,240.87	30.15
306-4 (2020)	Total hazardous waste diverted from disposal	Tons	3,753	31	446.68	204.35
	Preparation for reuse	Tons	3,751	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	3,751	0	0	0
	Recycling	Tons	2	31	338.91	204.35
	Onsite	Tons	0	0	0	0
	Offsite	Tons	2	31	338.91	204.35
	Other recovery operations ²	Tons	0	0	107.77	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	107.77	0
	Percentage of hazardous waste recycled	% of hazardous waste recycled	4	3	22	100
	Total non-hazardous waste diverted from disposal ²	Tons	230	3,647	1.39	0
	Preparation for reuse	Tons	188	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	188	0	0	0
	Recycling	Tons	42	3,647	1.39	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	42	3,647	1.39	0

¹ Non-routine waste generation includes: 1) Waste from large construction as defined by the 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.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Other recovery operations ¹	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
306-5 (2020)	Total hazardous waste directed to disposal	Tons	103,204	939	1,557.02	0
	Incineration (with energy recovery)	Tons	98,254	939	1,485.99	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	98,254	939	1,485.99	0
	Incineration (without energy recovery)	Tons	4,950	0	71.03	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	4,950	0	71.03	0
	Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	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	161,146	36,907	5,239.48	30.15
	Incineration (with energy recovery)	Tons	10,912	0	2.26	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	10,912	0	2.26	0
	Incineration (without energy recovery)	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	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	150,234	36,907	5,237.22	30.15
	Onsite	Tons	0	0	0	0
	Offsite	Tons	150,234	36,907	5,237.22	30.15
306-3 (2016)	Spills					
	Oil spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered ²	m ³	0	0	0	0
		m ³	0	0	0	0
	Fuel spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered	m ³	0	0	0	0

¹ 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			
			2021	2022	2023	2024
	Waste spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered	m ³	0	0	0	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	*	*	*	*
-	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	21.01	20.20	21.67	21.99
-	Product Stewardship					
	Life Cycle Assessment					
	Full product LCAs conducted	% of total products	10	8	8	0
	Simplified product LCAs conducted	% of total products	75	83	83	100
	Others	% of total products	15	9	9	0
301-1 (2016)	Renewable Raw Materials					
	Raw materials (by weight or volume) from renewable resources	% of total products	*	*	*	*
-	Hazardous Substances					
	Company's products (in terms of revenues) containing restricted substances in the Annex XVII of REACH regulation	% of total products	3	4	2	2
	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	1.8	2.0	1.9	1.7
	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	NA	25	23	21

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.

* To be updated in the end of July 2025

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Products (in terms of revenues) that has undergone a risk assessment process to assess their potential impacts 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	25,603
Climate Strategy Impact						
-	Low-Carbon Products					
	Avoided GHG emissions for client's products	% of total revenues from products	4	2	1	4
	Low carbon products	% of total revenues from products	90	88	82	74
-	Climate Strategy Impacts					
	Total estimated annual CO ₂ savings ¹	Tons CO ₂ equivalent	63,333	59,903	36,981	39,351
	Total annual investments required of anticipated annual CO ₂	Million baht	3,028	261	605	287
	Total anticipated annual cost savings	Million baht	337	472	365	328
	GHG annual reduction target at fiscal year	Tons CO ₂ equivalent	NA	NA	30,000	21,641

¹ From new projects that contribute to CO₂ savings (realized)

* To be updated in the end of July 2025

SUSTAINABILITY PERFORMANCE DATA

Joint Ventures (JV)*

*JV include 1) WHA GC Logistics Company Limited 2) PTT MCC Biochem Company Limited 3) PTT Asahi Chemical Company Limited 4) HMC Polymers Company Limited

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Worker									
	Total worker ¹	Persons	1,382		1,415		1,615		1400	
		Persons	976	406	1,016	399	1,187	428	999	401
2-7 (2021)	Total employee ²	Persons	832		794		930		775	
		Persons	548	284	545	249	666	264	529	246
2-8 (2021)	Contractor ^{3,4}	Persons	548		620		596		535	
		Persons	427	121	470	150	480	116	428	107
	Other ⁴	Persons	2		1		89		90	
		Persons	1	1	1	0	41	48	42	48
2-7 (2021)	Total Employee by Area									
	Rayong	Persons	504	159	495	139	620	149	482	142
	Bangkok	Persons	42	124	48	108	46	115	47	104
	Other provinces	Persons	2	1	2	2	0	0	0	0
	Total Employee by Employment Contract and by Area									
	Permanent contract ⁵	Persons	526	249	545	249	666	264	529	246
	Rayong	Persons	482	133	495	139	620	149	482	142
	Bangkok	Persons	42	115	48	108	46	115	47	104
	Other provinces	Persons	2	1	2	2	0	0	0	0
	Temporary contract ⁶	Persons	22	35	0	0	0	0	0	0
	Rayong	Persons	22	26	0	0	0	0	0	0
	Bangkok	Persons	0	9	0	0	0	0	0	0
	Other provinces	Persons	0	0	0	0	0	0	0	0
	Non-guaranteed hours employees	Persons	526	249	0	0	0	0	0	0
	Rayong	Persons	482	133	0	0	0	0	0	0
	Bangkok	Persons	42	115	0	0	0	0	0	0
	Other provinces	Persons	2	1	0	0	0	0	0	0
	Total Employee by Employment Type									
	Full-time	Persons	548	284	545	249	666	264	529	246
	Rayong	Persons	NA	NA	495	139	620	149	482	142
	Bangkok	Persons	NA	NA	48	108	46	115	47	104
	Other provinces	Persons	NA	NA	2	2	0	0	0	0
	Part-time	Persons	0	0	0	0	0	0	0	0
	Rayong	Persons	0	0	0	0	0	0	0	0
	Bangkok	Persons	0	0	0	0	0	0	0	0
	Other provinces	Persons	0	0	0	0	0	0	0	0

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.

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
405-1 (2016)	Total Employee by Age Group									
	<30 years	% of total employee	23.20		20.03		16.56		14.71	
		Persons	193		159		154		114	
		% of total employee	15.14	8.05	14.23	5.79	11.83	4.73	10.97	3.74
		Persons	126	67	113	46	110	44	85	29
	30 - 50 years	% of total employee	66.71		65.49		70.86		70.58	
		Persons	555		520		659		547	
		% of total employee	43.87	22.84	42.21	21.28	50.54	20.32	46.58	24
		Persons	365	190	351	169	470	189	361	186
	>50 years	% of total employee	10.10		14.48		12.58		14.71	
		Persons	84		115		117		114	
		% of total employee	6.85	3.25	10.20	4.28	9.25	3.33	10.71	4
		Persons	57	27	81	34	86	31	83	31
	Total Employee by Employee Category (Level)									
	Executive (Level 13-18)	% of total employee	0.60	0.12	1.26	0.13	0.65	0	0.90	0
		Persons	5	1	10	1	6	0	7	0
	Middle management (Level 10-12)	% of total employee	4.33	2.16	8.06	5.04	7.63	4.09	8.77	5.29
		Persons	36	18	64	40	71	38	68	41
	Senior (Level 8-9)	% of total employee	7.69	4.33	13.35	9.07	14.73	9.57	13.68	10.97
		Persons	64	36	106	72	137	89	106	85
	Employee (Level 7 and Below)	% of total employee	53.25	27.52	45.97	17.13	48.60	14.73	44.90	15.48
		Persons	443	229	365	136	452	137	348	120
	Unclassified ¹	% of total employee	0	0	0	0	0	0	0	0
Persons		0	0	0	0	0	0	0	0	
Total Employee by Nationality										
Thai	% of total employee	99.88		99.50		99.46		99.61		
	Persons	831		790		925		772		
Japanese	% of total employee	0		0.50		0.54		0.39		
	Persons	0		4		5		3		
American	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
German	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
Turkey	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
France	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
Netherlands	% of total employee	0		0		0		0		
	Persons	0		0		0		0		
Others	% of total employee	0.12		0		0		0		
	Persons	1		0		0		0		

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

Human Capital

GRI	Required Data	Unit	Data Collection Period									
			2021		2022		2023		2024			
			Male	Female	Male	Female	Male	Female	Male	Female		
	Total Management Employee by Nationality											
	Thai	% of total management employee	100		96.52		95.65		97.41			
		Persons	60		111		110		113			
	Japanese	% of total management employee	0		3.48		4.35		2.59			
		Persons	0		4		5		3			
	American	% of total management employee	0		0		0		0			
		Persons	0		0		0		0			
	German	% of total management employee	0		0		0		0			
		Persons	0		0		0		0			
	Turkey	% of total management employee	0		0		0		0			
		Persons	0		0		0		0			
	France	% of total management employee	0		0		0		0			
		Persons	0		0		0		0			
	Netherlands	% of total management employee	0		0		0		0			
		Persons	0		0		0		0			
	Others	% of total employee	0		0		0		0			
		Persons	0		0		0		0			
		People with Disability										
		People with disability	% of total employee	0		0		0		0		
			Persons	0		0		0		0		
401-1 (2016)		New Employee										
	New employee	Persons	122		62		60		43			
			58	64	39	23	41	19	28	15		
	New hire rate	% of total employees	14.66		7.81		6.45		5.55			
			11.21	33.49	4.19	2.90	4.41	2.04	3.61	1.94		
	New Employee by Area											
	Rayong	Persons	57	41	32	14	36	10	24	10		
		% of total employees	6.85	4.93	4.03	1.76	3.87	1.08	3.10	1.29		
	Bangkok	Persons	1	23	7	8	5	9	4	5		
		% of total employees	0.12	2.76	0.88	1.01	0.54	0.97	0.52	0.65		
	Other provinces	Persons	0	0	0	1	0	0	0	0		
		% of total employees	0	0	0	0.13	0	0	0	0		

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
	New Employee Hire by Age Group and Gender										
	<30 years	Persons	40	39	19	10	17	7	14	5	
		% of total employees	4.81	4.69	2.39	1.26	1.83	0.75	1.81	0.65	
	30 - 50 years	Persons	17	25	20	13	24	12	14	10	
		% of total employees	2.04	3	2.52	1.64	2.58	1.29	1.81	1.29	
	>50 years	Persons	0	0	0	0	0	0	0	0	
		% of total employees	0	0	0	0	0	0	0	0	
	Turnover										
	Total employee turnover rate	Persons	39		55		55		52		
			24	15	29	26	34	21	32	20	
		% of total employees	4.69		6.93		5.91		6.71		
			2.88	1.80	3.65	0.58	3.66	2.26	4.13	2.58	
	Voluntary employee turnover rate	Persons	39		46		38		42		
			24	15	24	22	24	14	24	18	
		% of total employees	4.69		5.79		4.09		5.42		
			2.88	1.80	3.02	2.77	2.58	1.51	3.10	2.32	
	Turnover by Age Group and Gender										
	< 30 years	Persons	12	7	7	5	6	5	6	6	
		% of total employees	1.44	0.84	0.88	0.63	0.65	0.54	0.77	0.77	
	30 - 50 years	Persons	11	8	21	19	19	14	16	11	
		% of total employees	1.32	0.96	2.64	2.39	2.04	1.51	2.06	1.42	
	> 50 years	Persons	0	0	1	2	9	2	10	3	
		% of total employees	0	0	0.13	0.25	0.97	0.22	1.29	0.39	
	Turnover by Area and Gender										
	Rayong	Persons	20	3	24	13	32	11	25	11	
		% of total employees	2.40	0.36	3.02	1.64	3.44	1.18	3.23	1.42	
	Bangkok	Persons	4	12	5	13	2	10	7	9	
		% of total employees	0.48	1.44	0.63	1.64	0.22	1.08	0.90	1.16	
	Other provinces	Persons	0	0	0	0	0	0	0	0	
		% of total employees	0	0	0	0	0	0	0	0	
	Open positions filled by internal candidates	%	0		0		0		0		
	Average hiring cost / FTE in the last fiscal year	Baht/FTE	0		0		0		0		
401-2	Parental Leave										
(2016),	Employees entitled to parental leave	Persons	210	284	545	249	474	264	475	246	
401-3	Employees taking parental leave	Persons	2	8	11	7	10	12	7	10	
(2016)	Employees returning to work after parental leave	Persons	2	8	11	6	10	12	7	9	
	Employees returning to work after parental leave who were still employed for 12 months after returning	Persons	2	8	11	6	10	12	7	9	
	Employees returning to work retention rate	%	100	100	100	85.71	100	100	100	90	

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
404-1 (2016)	Training and Development										
	Average hours per FTE of training and development	Hours/ person/ year	6.72		23.26		34.97		*		
			9.07	25.98	19.39	17.64	43.8	26.1	*	*	
	Average amount spent per FTE on training and development	Baht/ person/ year	1,230		18,805.72		1.66		*		
	Total investment on employees training	Million baht	8.24	2.88	15.19	6.60	15.89	3.20	*	*	
	Average Hours of Training by Management Level and Gender										
	Average hours of training by management level	Hour /person /year	5.53	10.12	16.22	14.20	39.50	19.30	*	*	
	Executive (Level 13-18)	Hour /person /year	8.01	2.47	10.04	1.38	34.30	5.60	*	*	
	Middle management (Level 10-12)	Hour /person /year	3.54	6.60	16.87	12.63	20	14.80	*	*	
	Senior (Level 8-9)	Hour /person /year	9.22	14.34	27.93	20.80	61.20	27.60	*	*	
	Employee (Level 7 and below)	Hour /person /year	4.92	9.03	17.21	12.57	42.40	29	*	*	
	Average hours of training by employee category (function) and gender										
	Average hours of training by employee category (function)	Hour /person /year	NA	NA	18.02	16	23.70	15.90	*	*	
	Technical function	Hour /person /year	NA	NA	27.62	15.93	31.20	28.90	*	*	
	Administrative	Hour /person /year	NA	NA	5.72	16.30	5.90	9	*	*	
	Production	Hour /person /year	NA	NA	11.39	7.15	35.90	11	*	*	
	Support function	Hour /person /year	NA	NA	18.82	22.83	21.90	14.90	*	*	
	Average Hours of Training by Type of Training										
	Resilience and agility (support for business for expansion)	Hour /person/year	65.61	69.21	8.24		7.33		*		
	Leader	Hour /person/year	9.52	7.78	3.95		8.46		*		
	Safety	Hour /person/year	6.53	5.79	10.02		10.70		*		
	Technical	Hour /person/year	11.06	7.88	7.58		7.88		*		
	Others	Hour /person/year	6.64	7.80	3.99		8.93		*		
	Average Spent of Training by Management Level										
	Executive (Level 13-18)	Baht/person /year	3,576.77		9,169.90		23,329.68		*		
	Middle management (Level 10-12)	Baht/person /year	669.57		8,263.73		10,609.38		*		
	Senior (Level 8-9)	Baht/person /year	1,684.33		6,931.68		10,357.17		*		
	Employee (Level 7 and below)	Baht/person /year	1,165.11		3,968.02		13,161.63		*		
	Average Spent of Training by Type of Training										
	Resilience and agility (support for business for expansion)	Baht/person/year	3,437.18		2,691.69		1,643.34		*		
	Leadership	Baht/person/year	13,925.71		13,006.27		3,137.21		*		
	Occupational health and safety	Baht/person/year	1,526.38		3,135.95		2,645.54		*		
	Technical	Baht/person/year	5,233.62		4,613.73		1,582.72		*		
	Others	Baht/person/year	1,591.29		630.61		1,810.17		*		

* To be updated in the end of July 2025

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
404-3	Type of Performance Appraisal									
(2016)	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	
404-3	Employee Receiving Regular Performance and Career Development Reviews (excl. People in Unclassified Group) by Level									
(2016)	Executive (Level 13-18)	Persons	5	1	10	1	6	0	7	0
		% of total executive employee	100	100	100	100	100	0	100	0
	Middle management (Level 10-12)	Persons	36	18	64	40	71	38	68	41
		% of total middle management employee	100	100	100	100	100	100	100	100
	Senior (Level 8-9)	Persons	64	36	106	72	137	89	106	85
		% of total senior employee	100	100	100	100	100	100	100	100
	Employee (Level 7 and below)	Persons	443	229	365	136	452	137	348	120
		% of total employee (level 7 and below)	100	100	100	100	100	100	100	100
405-1	Gender Diversity and Equal Remuneration									
(2016)	Women in workforce	Persons	*		*		*		*	
		% of total workforce	*		*		*		*	
		% of target at fiscal year	*		*		*		*	
	Women in management positions	Persons	*		*		*		*	
		% of total management workforce	*		*		*		*	
		% of target at fiscal year	*		*		*		*	
	Women in top management positions	Persons	*		*		*		*	
		% of total top management positions	*		*		*		*	
		% of target at fiscal year	*		*		*		*	
	Women in junior management positions	Persons	*		*		*		*	
		% of total junior management positions	*		*		*		*	
		% of target at fiscal year	*		*		*		*	

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			Male	Female	Male	Female	Male	Female	Male	Female
	Women in management positions in revenue generating functions e.g. Sales, Marketing, Operation and BD that under BU.	Persons		*		*		*		*
		% of total managers		*		*		*		*
		in revenue generating functions								
		% of target at fiscal year		*		*		*		*
	Women in STEM-related positions ¹	Persons		*		*		*		*
		% of total STEM positions		*		*		*		*
		% of target at fiscal year		*		*		*		*
	Number of women on board of directors/supervisory board	Persons		*		*		*		*
		%		*		*		*		*
405-2	Ratio Salary (Average Female Salary / Average Male Salary)									
(2016)	Executive (Level 13-18): Base salary	Ratio	*	*	*	*	*	*	1.00	*
		Baht	*	*	*	*	*	*	2,864,471	*
	Executive (Level 13-18): Base salary + other cash incentives	Ratio	*	*	*	*	*	*	1.00	*
		Baht	*	*	*	*	*	*	4,166,402	*
	Management (Level 10-12): Base salary	Ratio	*	*	*	*	*	*	1.00	0.43
		Baht	*	*	*	*	*	*	14,919,317	6,353,589
	Management (Level 10-12): Base salary + Others cash incentives	Ratio	*	*	*	*	*	*	1.00	0.41
		Baht	*	*	*	*	*	*	24,302,125	10,012,256
	Non-managment (Level 9 and below): Base salary	Ratio	*	*	*	*	*	*	1.00	0.68
		Baht	*	*	*	*	*	*	26,209,676	17,737,082
	Difference Between Men and Women Employees									
	Mean gender pay gap (%)	%		*		*		*		*
	Median gender pay gap (%)	%		*		*		*		*
	Mean bonus gap (%)	%		*		*		*		*
	Median bonus gap (%)	%		*		*		*		*
	Mean gender pay gap (%)	%		*		*		*		*
2-30	Labor Practice Indicators									
(2021)	Employees represented by an independent trade union	%		100		100		100		100

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

* To be updated in the end of July 2025

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			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	Persons	832		794		930		775		
		%	100		100		100		100		
	Covered by such a system that has been internally audited	Persons	832		794		930		775		
		%	100		100		100		100		
	Covered by such a system that has been audited or certified by an external party	Persons	832		794		930		775		
		%	100		100		100		100		
	Contractor ¹										
	Covered by an occupational health and safety management system	Persons	548		620		596		535		
		%	100		100		100		100		
	Covered by such a system that has been internally audited	Persons	548		620		596		535		
		%	100		100		100		100		
	Covered by such a system that has been audited or certified by an external party	Persons	548		620		596		535		
		%	100		100		100		100		
	403-9 (2018)	Fatalities as a Result of Work-Related Injury									
		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 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 Fatalities as a Result of Work-Related Injury											
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		

¹ Worker (excludes employees) refers to significant workers that are contractors

Human Capital

GRI	Required Data	Unit	Data Collection Period							
			2021		2022		2023		2024	
			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	1		0		2		3	
			1	0	0	0	1	1	3	0
	Rayong	Case	1	0	0	0	1	1	3	0
	Bangkok	Case	0	0	0	0	0	0	0	0
	Other provinces	Case		0	0	0	0	0	0	0
	Contractors ¹	Case	10		3		7		1	
			10	0	3	0	7	0	1	0
	Rayong	Case	10	0	3	0	7	0	1	0
	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								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
403-9 (2018)	Recordable Work-Injuries Rate (IR) ¹										
	Employees	Case/1 million	0.41		0		0.81		1.24		
		manhours	0.49	0	0	0	0.47	2.78	1.49	0	
	Rayong	Case/1 million	0.49	0	0	0	0	0	0	0	
		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	1.86		0.73		1.48		0.24		
		manhours	2.29	0	0.85	0	1.67	0	0.28	0	
	Rayong	Case/1 million	2.29	0	0.85	0	1.67	0	0.28	0	
		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	2,443,206		2,461,901		2,468,051		2,425,131		
	Contractor ²	Manhours	5,367,326		4,099,938		4,728,515		4,169,537		
Lost-Time Injury Frequency Rate (LTIFR)											
Employees	Case	0		0		1		0			
	Case/1 million manhours	0		0		0.41		0			
Data coverage	% of revenue	100		100		100		100			
Contractors ²	Case	6		1		0		0			
	Case/1 million manhours	1.12		0.24		0		0			
Data coverage	% of revenue	100		100		100		100			
Lost Work Day (LWD) & Lost Day Rate (LDR)											
Employees	Case	0		0		2		0			
	Case/1 million manhours	0		0		0.42		0			
	Contractors ²	Case	0		12		0		0		
		Case/1 million manhours	0		2.93		0		0		
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							
			2021		2022		2023		2024	
			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 (2018)	Number of Cases of Recordable 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	
			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	0		0		0		0	
	Contractors ²	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
	Occupational Health and Safety									
G4-	Process Safety Events - Tier 1									
OG13	Number per million hours worked	Number	2		0		0		0	
	By business activity: production	Number	2		0		0		0	
	By business activity: transportation	Number	0		0		0		0	
	By business activity: storage	Number	0		0		0		0	
	By business activity: other	Number	0		0		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 (excludes employees) refers to significant workers that are contractors.

Human Capital

GRI	Required Data	Unit	Data Collection Period								
			2021		2022		2023		2024		
			Male	Female	Male	Female	Male	Female	Male	Female	
	Process Safety Events - Tier 2										
	Number per million hours worked	Number	1		0		0		0		
	By business activity: production	Number	1		0		0		0		
	By business activity: transportation	Number	0		0		0		0		
	By business activity: storage	Number	0		0		0		0		
	By business activity: other	Number	0		0		0		0		
	Data coverage	% of revenue	100		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	0		0		0		0		
		Case	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	Case	0		0		0		0		
		Case	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	

Natural Capital

GRI	Required Data	Unit	Data Collection Period				
			2021	2022	2023	2024	
301-1 (2016)	Material						
	Total material used	Million tons	0.56	0.56	0.54	0.16	
	Non renewable material	Million tons	0.55	0.55	0.52	0.16	
	Renewable material	Million tons	0.01	0.01	0.01	0	
301-2 (2016)	Recycled input materials used	%	2	2	2	2	
302-1 (2016)	Energy Consumption						
	Total energy consumed	MWh	2,300,450.91	1,987,500.77	1,717,466.63	540,182.18	
	Percentage grid electricity	%	30.28	22.30	21.95	7.19	
	Percentage renewable	%	0	0	0	0	
	Total self-generated energy	MWh	NA	NA	NA	NA	
	Total direct non-renewable energy consumption	MWh	1,315,096.18	1,282,749.50	930,536.91	11,853.97	
	Natural gas	MWh	626,851.99	702,116.95	659,991.22	11,853.97	
	LPG	MWh	0	681.99	NA	0	
	Diesel	MWh	0	93.07	124.06	0	
	Pyrolysis gas oil	MWh	0	0	0	0	
	Recovered volatile (RV)	MWh	0	0	0	0	
	Foul hexane	MWh	0	0	0	0	
	Fuel oil	MWh	0	0	0	0	
	Fuel gas	MWh	688,244.19	579,857.49	270,421.63	0	
	Total indirect energy consumption by primary energy source	MWh	985,354.73	704,751.27	1,117,245.86	528,328.21	
	Steam / heating / cooling and other energy (non-renewable) purchased for consumption	MWh	985,354.73	704,751.27	1,117,245.86	528,328.21	
	Electricity (non-renewable) purchased	MWh	696,602.25	443,236.80	376,930.74	38,845.23	
	Steam (non-renewable) purchased	MWh	288,752.48	261,514.47	740,315.12	489,482.98	
	Cooling (non-renewable) purchased	MWh	0	0	0	0	
	Total non-renewable energy sold	MWh	0	0	330,316.14	0	
	Electricity sold	MWh	0	0	0	0	
	Steam sold	MWh	0	0	330,316.14	0	
	Return steam condensate sold	MWh	0	0	0	0	
	Heating sold	MWh	0	0	0	0	
	Cooling sold	MWh	0	0	0	0	
	Total energy consumption within the organization from non-renewable sources	MWh	2,300,450.91	1,987,500.77	1,717,466.63	540,182.18	
	Data coverage	% of production volume	100	100	100	100	
	305-7 (2016)	NOx, SOx, and Other Significant Air Emissions ¹					
		Volatile organic compounds (VOCs)	Tons VOCs	209	186	163	174
		Data coverage	% of production volume	100	100	100	100
VOCs target at fiscal year		Tons VOCs	NA	NA	NA	NA	
VOCs intensity		Tons VOCs/ million tons production	176	154	160	150	

¹ 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			
			2021	2022	2023	2024
	Nitrogen oxides (NOx) emissions	Tons NOx	61	63	40	55
	Data coverage	% of production volume	100	100	100	100
	NOx emissions target at fiscal year	Tons NOx	NA	NA	NA	NA
	NOx intensity	Tons NOx / million tons production	51	52	39	47
	Sulfur oxides (SOx) emissions	Tons SOx	17.38	16.79	17.09	17.09
	Data coverage	% of production volume	100	100	100	100
	SOx emissions target at fiscal year	Tons SOx	NA	NA	NA	NA
	SOx intensity	Tons SOx / million tons production	15	14	17	15
	Total suspended particulate (TSP)	Tons	NA	NA	NA	NA
	TSP intensity	Tons/ million tons production	NA	NA	NA	NA
	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	10.64	11.08	10.16	10.62
	Withdrawal: Fresh surface water	Million m ³	0	0	0	0
	Withdrawal: Fresh ground water	Million m ³	0	0	0	0
	Discharge: Water returned to extraction source at similar or higher quality as raw water extracted	Million m ³	NA	NA	NA	NA
	Water withdrawal (excluding salt water)	Million m ³	10.64	11.08	10.16	10.62
	Water discharge (excluding salt water)	Million m ³	4.96	4.89	4.36	4.74
	Total net fresh water consumption	Million m ³	5.68	6.19	5.80	5.89
	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	NA
	Total water consumption from all areas	Mega litres	NA	NA	NA	NA
	Total water consumption from areas with water stress	Mega litres	NA	NA	NA	NA
	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 (2018)	Water Withdrawal					
	Total water withdrawal from all areas	Mega litres	10,636.12	11,075.32	10,161.38	10,624.27
	Fresh water ($\leq 1,000$ mg/L TDS ¹)	Mega litres	10,636.12	11,075.32	10,161.38	10,624.27

¹ TDS – Total dissolved solids

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Surface water	Mega litres	0	0	0	0
	Groundwater	Mega litres	0	0	0	0
	Seawater	Mega litres	0	0	0	0
	Produced water	Mega litres	0	0	0	0
	Third-party water	Mega litres	10,636.12	11,075.32	10,161.38	10,624.27
	Other water (>1,000 mg/L TDS).	Mega litres	0	0	0	0
	Surface water	Mega litres	0	0	0	0
	Groundwater	Mega litres	0	0	0	0
	Seawater	Mega litres	0	0	0	0
	Produced water	Mega litres	0	0	0	
	Third-party water	Mega litres	0	0	0	0
	Total water withdrawal from all areas with water stress	Mega litres	0	0	0	0
	Fresh water (\leq 1,000 mg/L TDS)	Mega litres	0	0	0	0
	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	0	0	0	0
	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
	Other water (>1,000 mg/L TDS).	Mega litres	0	0	0	0
	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	0	0	0	0
	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	NA	NA	NA	NA
	Water reused	Mega litres	NA	NA	NA	NA
	Water recycled	Mega litres	NA	NA	NA	NA
	Total Water recycled & water reused	Mega litres	NA	NA	NA	NA
		% of total water withdrawal	NA	NA	NA	NA
303-4 (2018)	Water Discharge ¹					
	Total water discharge to all areas	Mega litres	4,959.42	4,886.60	4,362.09	4,736.04
	Fresh water (\leq 1,000 mg/L TDS)	Mega litres	0	0	0	0
	Surface water	Mega litres	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA

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			
			2021	2022	2023	2024
	Groundwater	Mega litres	NA	NA	NA	NA
	Seawater	Mega litres	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA
	Third-party water sent for use to other organizations	Mega litres	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA
	Other water (>1,000 mg/L TDS).	Mega litres	4,959.42	4,886.60	4,362.09	4,736.04
	Surface water	Mega litres	0	0	0	0
	BOD loading	Tons	NA	NA	NA	NA
	COD loading	Tons	NA	NA	NA	NA
	Groundwater	Mega litres	0	0	0	0
	Seawater	Mega litres	0	0	0	0
	COD loading	Tons	NA	NA	NA	NA
	Third-party water sent for use to other organizations	Mega litres	4,959	4,887	4,362	4,736
	BOD loading	Tons	NA	NA	NA	NA
	COD loading	Tons	187.62	155.48	156.25	169.2
	Total direct COD	Tons	1,604	1,410	1,246	169
	Percentage of data coverage	% of production volume	NA	NA	NA	NA
	Total direct COD target at fiscal year	Tons COD	NA	NA	NA	1,180
	Total water discharge to areas with water stress	Mega litres	4,959	4,887	4,362	4,736
	Fresh water (\leq 1,000 mg/L TDS)	Mega litres	0	0	0	0
	Other water (>1,000 mg/L TDS)	Mega litres	4,959	4,887	4,362	4,736
306-3 (2020)	Routine Waste Generation					
	Total waste generated	Tons	9,170.39	5,920.91	4,168.44	7,348.63
	Total hazardous waste generated (as defined by national legislation)	Tons	6,035.96	3,627.81	2,578.40	4,159.64
	Data coverage	% of production volume	100	100	100	100
	Total hazardous waste disposal target at fiscal year	Tons	NA	NA	NA	NA
	Total non-hazardous waste generated (as defined by national legislation)	Tons	3,134.42	2,293.09	1,590.03	3,189
	Data coverage	% of production volume	100	100	100	100
	Total Non-Hazardous Waste disposal target at fiscal year	Tons	NA	NA	NA	NA
306-4 (2020)	Total weight of waste diverted from disposal	Tons	2,704.74	2,551.54	1,755.59	3,954.12
	Total hazardous waste diverted from disposal	Tons	229.97	329.34	198.96	1,112.16
	Preparation for reuse	Tons	69.70	0	0	72.99
	Onsite	Tons	0	0	0	0
	Offsite	Tons	69.70	0	0	72.99
	Recycling	Tons	82.64	264.33	111.18	991.99
	Onsite	Tons	0	0	0	0
	Offsite	Tons	82.64	264.33	111.18	991.99
	Other recovery operations	Tons	77.63	65.01	87.78	47.18

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
	Onsite	Tons	0	0	0	0
	Offsite	Tons	77.63	65.01	87.78	47.18
	Percentage of hazardous waste recycled	% of hazardous waste recycled	3.81	9.08	7.72	26.74
	Total non-hazardous waste diverted from disposal ¹	Tons	2,474.78	2,222.20	1,556.64	2,841.96
	Preparation for reuse	Tons	513.24	447.05	358.07	691.71
	Onsite	Tons	0	0	0	0
	Offsite	Tons	513.24	447.05	358.07	691.71
	Recycling	Tons	1,957.24	1,775.15	1,198.57	2,150.25
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1,957.24	1,775.15	1,198.57	2,150.25
	Other recovery operations	Tons	4.29	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	4.29	0	0	0
306-5 (2020)	Total weight of waste directed to disposal	Tons	6,466	3,369	2,413	3,394.51
	Total hazardous waste directed to disposal	Tons	5,806	3,298	2,379	3,047
	Incineration (with energy recovery)	Tons	2,467.02	950.27	885.27	2,839.83
	Onsite	Tons	0	0	0	0
	Offsite	Tons	2,467.02	950.27	885.27	2,839.83
	Incineration (without energy recovery)	Tons	3,317.66	2,341.80	1,491.58	207.54
	Onsite	Tons	0	0	0	0
	Offsite	Tons	3,317.66	2,341.80	1,491.58	207.54
	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	21.32	6.41	2.60	0.10
	Onsite	Tons	0	0	0	0
	Offsite	Tons	21.32	6.41	2.60	0.10
	Total non-hazardous waste directed to disposal	Tons	659.65	70.89	33.40	347.04
	Incineration (with energy recovery)	Tons	29.88	41.71	33.02	344.54
	Onsite	Tons	0	0	0	0
	Offsite	Tons	29.88	41.71	33.02	344.54
	Incineration (without energy recovery)	Tons	1.27	0.17	0.38	0.50
	Onsite	Tons	0	0	0	0
	Offsite	Tons	1.27	0.17	0.38	0.50
	Secured Landfilling	Tons	628.50	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	628.50	0	0	0
	Other disposal operations (Land reclamation)	Tons	0	29.02	0	2
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	29.02	0	2

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.

Natural Capital

GRI	Required Data	Unit	Data Collection Period			
			2021	2022	2023	2024
-	Municipal waste to sanitary landfill	Tons	628.50	479.54	368.37	320.16
306-3 (2020)	Non-routine Waste Generation ¹					
	Total waste generated	Tons	268,333	41,524	7,244.57	234.50
	Hazardous waste generated (as defined by national legislation)	Tons	106,957	970	2,003.70	204.35
	Total non-hazardous waste generated (as defined by national legislation)	Tons	161,376	40,554	5,240.87	30.15
306-4 (2020)	Total hazardous waste diverted from disposal	Tons	3,753	31	446.68	204.35
	Preparation for reuse	Tons	3,751	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	3,751	0	0	0
	Recycling	Tons	2	31	338.91	204.35
	Onsite	Tons	0	0	0	0
	Offsite	Tons	2	31	338.91	204.35
	Other recovery operations	Tons	0	0	107.77	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	107.77	0
	Percentage of hazardous waste recycled	% of hazardous waste recycled	4	3	22	100
	Total non-hazardous waste diverted from disposal ²	Tons	230	3,647	1.39	0
	Preparation for reuse	Tons	188	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	188	0	0	0
	Recycling	Tons	42	3,647	1.39	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	42	3,647	1.39	0
	Other recovery operations ³	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
306-5 (2020)	Total hazardous waste directed to disposal	Tons	103,204	939	1,557.02	0
	Incineration (with energy recovery)	Tons	98,254	939	1,485.99	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	98,254	939	1,485.99	0
	Incineration (without energy recovery)	Tons	4,950	0	71.03	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	4,950	0	71.03	0
	Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0

¹ Non-routine waste generation includes: 1) Waste from large construction as defined by the 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			
			2021	2022	2023	2024
	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	161,146	36,907	5,239.48	30.15
	Incineration (with energy recovery)	Tons	10,912	0	2.26	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	10,912	0	2.26	0
	Incineration (without energy recovery)	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	0	0
	Landfilling	Tons	0	0	0	0
	Onsite	Tons	0	0	0	0
	Offsite	Tons	0	0	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	150,234	36,907	5,237.22	30.15
	Onsite	Tons	0	0	0	0
	Offsite	Tons	150,234	36,907	5,237.22	30.15
306-3 (2016)	Spills					
	Oil spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered ¹	m ³	0	0	0	0
	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	0	0
		m ³	0	0	0	0
	Volume of spill recovered	m ³	0	0	0	0
	Chemical spills	Case	0	0	0	0
		m ³	0	0	0	0
	Volume of spill recovered	m ³	0	0	0	0
-	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
	Operational Eco-Efficiency					
-	Denominator - Production / Revenues					
	Total production volume	Million tons	1.19	1.21	1.02	1.16