

Performance Summary

ECONOMIC PERFORMANCE

GRI Standard	Performance	Unit	2019	2020	2021	2022
201-1	Direct economic value generated					
	Revenue	Million Baht	3,738.37	2,564.23	2,498.16	2,598.84
	Economic value distributed					
	Annual dividend payment	Million Baht	1,162.80	965.81	965.81	841.50
	Operating cost		1,127.08	1,150.69	1,421.21	1,564.01
	Employee expenses		106.37	111.02	128.73	182.27
	Tax		62.63	54.04	44.54	50.72
	Social investment		0.30	16.31	12.61	16.28
	Economic value retained		1,279.19	266.36	74.74	55.94
205-2	Communication and training on anti-corruption policy to governance body members					
	Number of governance body members	%	100	100	100	100
	Communication and training on anti-corruption policy to employees					
	Number of employees	%	100	100	100	100
	Communication on anti-corruption policy to business partners					
205-3	Number of business partners	%	100	100	100	100
	Confirmed incidents of corruption					
	Total number of confirmed incidents of corruption	Case	0	0	0	0
	Number of employees who dismissed due to corruption	Person	0	0	0	0
	Total number of confirmed incidents when contracts with business partners were terminated or not renewed due to violations related to corruption	Case	0	0	0	0
	Public legal cases regarding corruption	Case	0	0	0	0
	Anti-competitive practice					
	Total amount of fines and settlements	Baht	0	0	0	0
	Total amount of fines and settlements	% of revenues	0	0	0	0
	Corruption and Bribery Cases					
	Total number of confirmed incidents of corruption	Case	0	0	0	0
	Employees who were dismissed due to corruption	Person	0	0	0	0
	Business partners who were terminated or not renewed due to corruption	Number	0	0	0	0
	Public legal cases regarding corruption (public investigations, prosecution or close cases)	Case	0	0	0	0
	Violations of Business Ethics					
	Violations received from grievance mechanisms specified by the company	Case	0	0	0	0
	Violations that are in the process of being resolved	Case	0	0	0	0
	Violations that have been resolved	Case	0	0	0	0
	Written Acknowledge (%)					
	Employees	%			100	100
	Contractors/ Suppliers/ Service Providers				100	100
	Subsidiaries				100	100
	Joint Ventures (including stakes above 10%)				100	100
	Training Provided					
	Employees	%			100	100
	Contractors/ Suppliers/ Service Providers				100	100
	Subsidiaries				100	100
	Joint Ventures (including stakes above 10%)				100	100
206-1	Legal actions for anti-competitive behavior, anti-trust and monopoly practices	Case	0	0	0	0

Supply Chain Management

GRI Standard	Performance	Unit	2019	2020	2021	2022
308-1	New suppliers that were screened using environmental criteria					
	New suppliers	Number	0	1	0	4
	New suppliers that were screened using environmental criteria	Number	0	0	0	4
		Percentage	NA	0	NA	100
308-2	Negative environmental impacts in the supply chain and actions taken					
	Total suppliers assessed for environmental impacts	Number	0	9	16	14
	Number of suppliers identified as having significant actual and potential negative environmental impacts.	Number	0	0	0	0
		Percentage	NA	0	0	0
	Suppliers identified as having significant actual and potential negative environmental impacts with which improvements were agreed upon as a result of assessment.	Number	0	0	0	0
		Percentage	NA	0	0	0
	Suppliers identified as having significant actual and potential negative environmental impacts with which relationships were terminated as a result of assessment, and why.	Number	0	0	0	0
		Percentage	NA	0	0	0
414-1	New suppliers that were screened using social criteria					
	New suppliers	Number	0	1	0	4
	New suppliers that were screened using social criteria	Number	0	0	0	4
		Percentage	NA	0	NA	100
414-2	Negative social impacts in the supply chain and actions taken					
	Total suppliers assessed for social impacts	Number	0	9	16	14
	Number of suppliers identified as having significant actual and potential negative social impacts.	Number	0	0	0	0
		Percentage	NA	0	0	0
	Suppliers identified as having significant actual and potential negative social impacts with which improvements were agreed upon as a result of assessment.	Number	0	0	0	0
		Percentage	NA	0	0	0
	Suppliers identified as having significant actual and potential negative social impacts with which relationships were terminated as a result of assessment, and why.	Number	0	0	0	0
		Percentage	NA	0	0	0

Customer Privacy

GRI Standard	Performance	Unit	2019	2020	2021	2022
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data					
	Total number of substantiated complaints received concerning breaches of customer privacy	Incident	0	0	0	0
	Complaints received from outside parties and substantiated by the organization	Incident	0	0	0	0
	Complaints from regulatory bodies	Incident	0	0	0	0
	Total number of identified leaks, thefts, of losses of customer data	Incident	0	0	0	0

SOCIAL PERFORMANCE

EMPLOYMENT

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
2-7	Total number of employees	Persons	110		129		152		182	
			92	18	106	23	121	31	142	40
	Thailand		92	18	106	23	121	31	140	37
	Vietnam		NA	NA	NA	NA	NA	NA	2	3
	Total employees by age group									
	Below 30 years old	Persons	26	4	37	9	38	12	34	14
		%	28.26	22.22	34.91	39.13	31.40	38.71	23.94	35.00
	30-50 years old	Persons	58	13	60	13	70	18	93	24
		%	63.04	72.22	56.60	56.52	57.85	58.06	65.49	60.00
	>50 years old	Persons	8	1	9	1	13	1	15	2
		%	8.70	5.56	8.49	4.35	10.74	3.23	10.56	5.00
	Number of employees by region									
	Thailand	Persons	19	1	25	9	24	7	27	8
	Vietnam		NA	NA	NA	NA	NA	NA	0	0
	Total new employees		20		34		31		35	
	Employees by gender									
	Thailand	Persons	92	18	106	23	121	31	140	37
	Vietnam		NA	NA	NA	NA	NA	NA	2	3
	Total number of employees		92	18	106	23	121	31	142	40
	Permanent employees by business units									
	Thailand	Persons	92	18	106	23	121	31	140	37
	Vietnam		NA	NA	NA	NA	NA	NA	2	3
	Total permanent employees		92	18	106	23	121	31	142	40
			110		129		152		182	
	Temporary employees by region									
	Thailand	Persons	0	0	0	0	0	0	1	3
	Vietnam		0	0	0	0	0	0	0	0
	Total temporary employee		92	18	106	23	121	31	1	3
			110		129		152		4	
	Employee with disabilities									
	Total	Persons	0	0	0	0	0	0	0	0
	Non-guaranteed hours employees by region									
	Thailand	Persons	0	0	0	0	0	0	0	0
	Vietnam		0	0	0	0	0	0	0	0
	Total temporary employees		0	0	0	0	0	0	0	0
			0		0		0		0	
	Full-time employees by region									
	Thailand	Persons	92	18	106	23	121	31	140	37
	Vietnam		NA	NA	NA	NA	NA	NA	2	3
	Total part-time employees		92	18	106	23	121	31	142	40
			110		129		152		182	
	Part-time employees by region									
	Thailand	Persons	0	0	0	0	0	0	0	0
	Vietnam		0	0	0	0	0	0	0	0
	Total temporary employee		0	0	0	0	0	0	0	0
			0		0		0		0	
	Management position									
	Thailand	Persons	16	7	17	8	22	10	29	9
	Vietnam		NA	NA	NA	NA	NA	NA	0	3
	Total number of management		16	7	17	8	22	10	29	12
			23		25		32		41	

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
	Top management									
	Thailand	Persons	6	1	6	2	6	1	7	1
	Vietnam		NA	NA	NA	NA	NA	NA	0	0
	Total of top management		7	1	6	2	6	1	7	1
			8		8		7		8	
	Middle management									
	Thailand	Persons	7	6	6	5	9	8	16	6
	Vietnam		NA	NA	NA	NA	NA	NA	0	3
	Total of middle management		7	6	6	5	9	8	16	9
			13		11		17		25	
	Junior management									
	Thailand	Persons	3	0	5	1	7	1	6	2
	Vietnam		NA	NA	NA	NA	NA	NA	0	0
	Total of junior management		3	0	5	1	7	1	6	2
			3		6		8		8	
	Staff									
	Thailand	Persons	76	11	89	15	99	21	111	28
	Vietnam		NA	NA	NA	NA	NA	NA	2	0
	Total of Staff		76	11	89	15	99	21	111	28
			87		104		120		141	

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
401-1	New Employee									
	Total number of new employee hires	Persons	19	1	25	9	24	7	29	11
			20		34		31		40	
	New hire rate	% of total employee	18.18		26.78		20.39		21.98	
	New employee by region									
	Thailand	Persons	19	1	25	9	24	7	27	8
		%	17.27	0.91	19.38	6.98	15.79	4.61	14.84	4.40
	Vietnam	Persons	NA	NA	NA	NA	NA	NA	2	3
		%	NA	NA	NA	NA	NA	NA	1.10	1.65
	New employee by age									
	Below 30 years old	Persons	12	0	14	7	12	5	12	6
		% of total employee	10.91	0	10.85	5.43	7.89	3.29	6.59	3.30
	Thailand	Persons	12	0	14	7	12	5	10	6
	Vietnam		NA	NA	NA	NA	NA	NA	2	0
	30-50 years old	Persons	7	1	11	2	12	2	16	5
		% of total employee	6.36	0.91	8.53	1.55	7.89	1.32	8.79	2.75
	Thailand	Persons	7	1	11	2	12	2	16	2
	Vietnam		NA	NA	NA	NA	NA	NA	0	3
	Over 50 years old	Persons	0	0	0	0	0	0	1	0
		% of total employee	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
	Thailand	Persons	0	0	0	0	0	0	1	0
	Vietnam		NA	NA	NA	NA	NA	NA	0	0
	Turnover rate									
	Total employee turnover	Persons	11	1	8	3	4	1	7	4
			12		11		5		11	
	Dismissal of Employee	Persons	0	0	0	0	0	0	0	0
	Voluntary leave		11	1	8	3	4	1	7	4
	Turnover rate	% of total employee	10.91		8.53		3.29		6.04	
	Voluntary employee turnover		10.91		8.53		3.29		6.04	
	Data coverage (as % of all FTEs globally)	%	100		100		100		100	
	Employee turnover by region									
	Thailand	Persons	11	1	8	3	4	1	6	4
		% of total employee	10.00	0.91	6.20	5.33	2.63	0.66	3.30	2.20
	Vietnam	Persons	NA	NA	NA	NA	NA	NA	1	0
		% of total employee	NA	NA	NA	NA	NA	NA	0.55	0.00
	Employee turnover by age									
	Below 30 years old	Persons	5	0	1	0	3	1	2	2
		% of total employee	4.55	0.00	0.78	0.00	1.97	0.66	1.10	1.10
	Thailand	Persons	5	0	1	0	3	1	2	2
	Vietnam		NA	NA	NA	NA	NA	NA	0	0
	30-50 years old	Persons	6	1	6	3	1	0	4	2
		% of total employee	5.45	0.91	4.65	2.33	0.66	0.00	2.20	1.10
	Thailand	Persons	6	1	6	3	1	0	3	1
	Vietnam		NA	NA	NA	NA	NA	NA	1	1
	Over 50 years old	Persons	0	0	1	0	0	0	1	0
		% of total employee	0.00	0.00	0.78	0.00	0.00	0.00	0.55	0.00
	Thailand	Persons	0	0	1	0	0	0	1	0
	Vietnam		NA	NA	NA	NA	NA	NA	0	0

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
401-3	Parental leave									
	Employees that were entitled to parental leave	Persons	-	18	-	23	-	31	-	36
	Total employees that took parental leave		-	0	-	1	-	0	-	0
	Total employees that returned to work in the reporting period after parental leave ended		-	0	-	1	-	0	-	0
	Total employees that returned to work after parental leave ended that were still employed 12 months after their return to work		-	0	-	1	-	0	-	0
	Total return to work rate		%	-	-	-	100	-	-	-
	Total retention rate	%	-	-	-	100	-	-	-	-

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
404-1	Employee training									
	Total number of training hours provided to employees	Hours	1,346.50	408.00	2,187.00	276.00	3,144.93	725.86	3,454.50	942.00
	Average training hours	Hours	14.64	22.67	20.63	12.00	25.99	23.41	24.33	23.55
	Average hours of training by employee category									
	Number of top management	Persons	7		8		7		8	
	Number of training hours provided to top management	Hours	280.00		72		240.88		254.00	
	Average hours of training for top management	Hours	40.00		9.00		34.41		31.75	
	Number of middle management	Persons	13		11		17		25	
	Number of training hours provided to middle management	Hours	58.00		372.00		485.67		1,048.50	
	Average hours of training for middle management	Hours	4.46		33.82		28.57		41.94	
	Number of junior management	Persons	3		6		8		8	
	Number of training hours provided to junior management	Hours	-		129.00		291.46		232.00	
	Average hours of training for junior management	Hours	-		21.50		36.46		29	
	Number of staff	Persons	87		104		120		141	
	Number of training hours provided to staffs	Hours	1,258		1,890.00		2,852.78		2,862.00	
	Average hours of training for staffs	Hours	14.63		18.17		23.77		20.30	
404-3	Number of employees receiving regular performance and career development reviews									
	number of employees receiving regular performance and career development reviews	persons	92	18	106	23	121	31	142	40
	Percentage of employees receiving regular performance and career development reviews	%	100	100	100	100	100	100	100	100
	Percentage of employee received performance review by level									
	Total number of top management who received regular performance and career development reviews	Persons	7		8		7		8	
	Percentage of top management receiving regular performance and career development reviews by employee category	%	100		100		100		100	
	Total number of middle management who received regular performance and career development reviews	Persons	13		11		17		25	
	Percentage of middle management receiving regular performance and career development reviews by employee category	%	100		100		100		100	
	Total number of junior management who received regular performance and career development reviews	Persons	3		6		8		8	
	Percentage of junior management receiving regular performance and career development reviews by employee category	%	100		100		100		100	

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
	Total number of junior management who received regular performance and career development reviews	Persons	87		104		120		141	
	Percentage of junior management receiving regular performance and career development reviews by employee category	%	100		100		100		100	

Labor Practice Indicators

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
405-1	Total number of governance bodies members	Persons	3	0	2	0	2	0	3	0
	Diversity of governance bodies by gender	%	100	0	100	0	100	0	100	0
	Diversity of governance bodies by age group									
	Below 30 years old	Person	0	0	0	0	0	0	0	0
		%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30-50 years old	Person	2	2	2	1	2	2	2	2
		%	66.67	100.00	50.00	66.67	50.00	66.67	50.00	66.67
	Over 50 years old	Person	1	0	1	1	1	1	1	1
		%	33.33	0.00	50.00	33.33	50.00	33.33	50.00	33.33
	Total	Person	3	2	2	3	2	3	3	3
		%	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total workforce by Age group									
	Below 30 years old	Person	26	4	37	9	38	12	34	14
		%	28.26	22.22	30.19	34.78	31.40	38.71	23.94	35.00
	30-50 years old	Person	58	13	60	13	70	18	93	24
		%	63.04	72.22	56.60	56.52	57.85	58.06	65.49	60.00
	Over 50 years old	Person	8	1	9	1	13	1	15	2
		%	8.70	5.56	8.49	4.35	10.74	3.23	10.56	5.00
	Total by age	Person	92	18	106	23	121	31	142	40
		%	100	100	100	100	100	100	100	100
	Diversity of employee by gender									
	Top management	Persons	6	1	6	2	6	1	7	1
		% FTEs	85.71	14.29	75.00	25.00	85.71	14.29	87.50	12.50
	Middle management	Persons	7	6	6	5	9	8	16	9
		% FTEs	53.85	46.15	54.55	45.45	52.94	47.06	64.00	36.00
	Junior management	Persons	3	0	5	1	7	1	6	2
		% FTEs	100.00	0.00	83.33	16.67	87.50	12.50	75.00	25.00
	Staff	Persons	76	11	89	15	99	21	113	28
		% FTEs	87.36	12.64	85.58	14.42	82.50	17.50	80.14	19.86
	Diversity of employee by employee category									
	Top management									
	Below 30 years old	Persons	0	0	0	0	0	0	0	0
		% FTEs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30-50 years old	Persons	4	6	4	5	4	5	4	5
		% FTEs	57.14	75.00	57.14	62.50	57.14	62.50	57.14	62.50
	Over 50 years old	Persons	3	2	3	3	3	3	3	3
		% FTEs	42.86	25.00	42.86	37.50	42.86	37.50	42.86	37.50
	Total of top management	Persons	7	8	7	8	7	8	7	8
	Middle management									
	Below 30 years old	Persons	0	1	1	1	1	1	0	0
		% FTEs	0.00	9.09	5.88	0.00	5.88	0.00	0.00	0.00
	30-50 years old	Persons	12	10	15	23	15	23	12	23
		% FTEs	92.31	90.91	88.24	92.00	88.24	92.00	92.31	92.00
	Over 50 years old	Persons	1	0	1	2	1	2	1	2
		% FTEs	7.69	0.00	5.88	8.00	5.88	8.00	7.69	8.00
	Total of middle management	Persons	13	11	17	25	17	25	13	25
	Junior management									
	Below 30 years old	Persons	0	1	0	0	0	0	0	0
		% FTEs	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00

GRI Standard	Performance	Unit	2019		2020		2021		2022	
			Male	Female	Male	Female	Male	Female	Male	Female
	30-50 years old	Persons	3		4		7		7	
		% FTEs	100.00		66.67		87.50		87.50	
	Over 50 years old	Persons	0		1		1		1	
		% FTEs	0.00		16.67		12.50		12.50	
	Total of junior management	Persons								
	Staff									
	Below 30 years old	Persons	30		44		49		48	
		% FTEs	34.48		42.31		40.83		34.04	
	30-50 years old	Persons	52		53		62		82	
		% FTEs	59.77		50.96		51.67		58.16	
	Over 50 years old	Persons	5		7		9		11	
		% FTEs	5.75		6.73		7.50		7.80	
	Total of staff	Persons	87		104		120		141	
405-2	Ratio of basic salary and remuneration of women to men									
	Average pay for executives	Baht	336,000	300,000	278,000	275,000	350,000	284,000	400,000	300,000
	Average pay for middle management	Baht	92,000	136,000	78,000	139,000	76,000	110,000	110,000	118,000
	Average pay for staffs	Baht	32,700	49,000	33,000	30,000	37,000	37,400	33,000	39,000
	Equal pay analysis									
	Executive level (base salary only)	Baht	237,000	202,500	214,000	213,000	261,000	220,000	293,000	228,000
	Management level (base salary only)	Baht	64,000	93,000	62,500	108,000	61,000	81,000	90,000	90,500
	Non-Management level (base salary only)	Baht	17,600	35,000	20,600	25,000	22,400	29,000	19,000	27,600

COMMUNITY ENGAGEMENT

GRI Standard	Performance	Unit	2019	2020	2021	2022
413-1	Operations with community engagement					
	Total percentage of reporting operations involved with local community engagement	%	100	100	100	100
	Revenue	Million Baht	3,738.37	2,564.23	2,498.16	2,442.00
	Type of Philanthropic Activities					
	A) Charitable Donations	% of total costs	29	35	31	26
	B) Community investment	% of total costs	14	25	28	26
	C) Community initiatives	% of total costs	57	40	41	48
	Philanthropic Contributions					
	amount of Cash contributions	Million Baht	36.40	22.78	14.47	6.89
	amount of Time: employee volunteering during paid working hours	Million Baht	0.18	0.34	0.25	3.45
	amount of In-kind giving: product or services donations, projects/partnerships or similar	Million Baht	4.32	5.64	4.12	6.69
	amount of Management overheads	Million Baht	1.36	2.29	1.60	1.54

OCCUPATIONAL HEALTH AND SAFETY

GRI Standard	Performance	Unit	2019	2020	2021	2022
403-8	Number of worker who covered by an occupational health and safety management system					
	employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system;	%	90%	100%	100%	100%
	employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system that has been internally audited		90%	100%	100%	100%
	employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system that has been audited or certified by an external party		-	-	-	-
403-9	The number of hours worked					
	Employee	Hours	213,840	333,189	320,746	444,553
	Contractor		616,000	386,174	391,993	695,813
	Lost time injury frequency rate (LTIFR)					
	Employee	Case per 1,000,000 hours worked	4.68	0	0.58	0
	Contractor		0	0.93	0	1.43
	Number of high consequence work related injuries					
	Employee	Case per 1,000,000 hours worked	0	0	0	0
	Contractor		0	0	0	0
	Number of recordable work related injuries					
	Employee	Case	1	0	1	0
	Contractor		0	0	1	1
	Fatalities					
	Employee	Persons	0	0	0	0
	Contractor		0	0	0	0
403-10	Fatalities as a result of work-related ill health					
	Employee	Persons	0	0	0	0
	Contractor		0	0	0	0
	Number of recordable work related ill health					
	Employee	Case	0	0	0	0
	Contractor		0	0	0	0

ENVIRONMENT PERFORMANCE

ENERGY

GRI Standard	Performance	Unit	2019	2020	2021	2022
302-1	Energy consumption from non-renewable sources					
	Diesel generator	Liters	32,967.27	92,897.30	56,853.96	61,698.60
	Grid electricity consumption	KWh	27,022,963.95	27,112,722.66	29,561,163.47	32,578,574.62
	Energy consumption from renewable source					
	Solar power	KWh	180,365.05	313,810.46	491,458.00	1,294,075.03
	Total energy consumption					
	Total	MWh	27,203.33	27,426.53	30,052.62	33,872.65
	Data coverage for Energy Consumption					
	Data coverage	%	100	100	100	100
	Type of energy consumption					
	Electricity	KWh				
	Heating					
	Cooling					
	Steam					
	Type of energy sold					
	Electricity	KWh				
	Heating					
	Cooling					
	Steam					
302-2	Energy consumption outside of the organization					
	Total energy consumption	J				
302-3	Energy intensity					
	Energy intensity ratio	MWh/ton production				

GHG EMISSION

GRI Standard	Performance	Unit	2019	2020	2021	2022
305-1	Scope 1 emissions					
	Total scope 1 emissions	ton CO ₂ e	89.27	251.57	274	356
305-2	Scope 2 emissions					
	Total scope 2 emissions	ton CO ₂ e	15,730.07	15,782.32	13,458	12,083
305-3	Scope 3 emissions					
	Total scope 3 emissions	ton CO ₂ e	N/A	N/A	N/A	22,621
305-4	GHG emissions intensity ratio					
	Scope 1	Tons	0.0000004807	0.0000001482	0.0000001256	0.0000001457
	Scope 2	CO ₂ e/THB	0.00000846956	0.0000092948	0.000001711	0.0000049460
305-5	Scope 1 emissions reduction by business unit					
	Total scope 1 emissions	ton CO ₂ e	N/A	N/A	(286)	82
	Scope 2 emissions reduction by business unit					
	Total scope 2 emissions	ton CO ₂ e	N/A	N/A	(96)	(1,375)
	Scope 3 emissions reduction by business unit					
	Total scope 3 emissions	ton CO ₂ e	N/A	N/A	N/A	(13,123)
	Total reduction (scope 1+ scope 2+ scope 3)					
	Total emission reduction	ton CO ₂ e	N/A	N/A	382	(14,416)

Note: Scope 1 emissions data are from diesel used in power generator and Company's vehicles.

Scope 2 emissions data are from electricity used in water production and wastewater treatment plants.

WATER AND EFFLUENTS

GRI Standard	Performance	Unit	2019	2020	2021	2022
303-3	Water withdrawal by source					
	Total water withdrawal	m ³	67,343,639	64,830,392	69,233,390	66,205.07
	- Surface water		3,811,909	15,555,500	9,245,490	10,521.46
	- Third party water		63,531,730	49,274,890	59,987,900	55,683.61
303-4	Water discharge by destination					
	Total water discharge	m ³	46,162,759	17,950,586	30,101,720	17,226.23
	- Surface water		44,292,549	16,117,382	23,292,010	14,765.67
	- Seawater		1,870,210	1,833,204	6,809,710	2,460.56
	Water discharge by category					
	Freshwater (≤ 1,000 mg/L Total Dissolved Solids)	m ³	44,292,549	16,117,382	23,292,010	14,765.67
	Other water (≤ 1,000 mg/L Total Dissolved Solids)		1,870,210	1,833,204	6,809,710	2,460.56

EFFLUENTS QUALITY

GRI Standard	Performance	Unit	Standard	2019	2020	2021	2022
306-1	Water discharge by quality and location*						
	WHA CIE1						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	11.00	8.75	8.50	7.00
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	44.00	37	37.64	38.00
	Suspended Solid (SS)	mg/L	≤ 50	12.00	9	7.43	8.08
	WHA CIE 2						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	5.00	3.3	3.83	5.00
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	51.00	26	33.25	23.00
	Suspended Solid (SS)	mg/L	≤ 50	12.00	14.3	13.83	10.83
	ESIE Phase 1						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	3	4	6.4	3
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	44	31	51.25	43
	Suspended Solid (SS)	mg/L	≤ 50	10	<5	7.5	5.4
	ESIE Phase 2B						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	5	4	4.6	7
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	45	24	30	36
	Suspended Solid (SS)	mg/L	≤ 50	9	11	10	14
	WHA ESIE 1 Phase 1						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	10.16	6.80	4.3	9
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	50.26	30.00	31.67	42
	Suspended Solid (SS)	mg/L	≤ 50	17.16	12.16	10	11.92
	WHA ESIE 1 Phase 3						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	8.10	5.80	5.8	7
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	49.17	33.00	38.70	39
	Suspended Solid (SS)	mg/L	≤ 50	8.70	7.60	6.8	7.8
	WHA ESIE 2						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	5	5.59	4.7	5
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	52	35.50	41.45	51
	Suspended Solid (SS)	mg/L	≤ 50	17	15.32	15.45	21.5
	WHA ESIE 4						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	4 – 13	5	4.8	6
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	19 – 64	37	34.1	38
	Suspended Solid (SS)	mg/L	≤ 50	6 - 50	21	17.5	19.2
	WHA EIE						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	2	4	4.00	3
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	49	20	42.58	38
	Suspended Solid (SS)	mg/L	≤ 50	22	17	11.6	24.25
	WHA RIL						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	8	8	7.83	8
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	49	37	37.16	39
	Suspended Solid (SS)	mg/L	≤ 50	10	11	10.83	13.58
	WHA SIL						
	Biochemical Oxygen Demand (BOD)	mg/L	≤ 20	3	3	3	3
	Chemical Oxygen Demand (COD)	mg/L	≤ 120	41	40	35	28
	Suspended Solid (SS)	mg/L	≤ 50	11	12	10.6	9.8

Note: WHAUP is responsible for water discharge quality of all WHA Industrial Estates, therefore, the data are reported by industrial estate locations.

Note: NA = Not applicable; Na = Not analyzed; ND = Not detected

AIR EMISSION

GRI Standard	Performance	Unit	Standard	2019	2020	2021	2022
305-7	Ambient air quality monitoring by industrial estate operation*						
	WHA ESIE						
	Location 1: Chompon Chao Phraya Temple						
	NOx	ppm	≤ 0.17	0.007-0.016	0.014-0.052	0.004-0.011	0.0139-0.0344
	SOx	mg/m ³	≤ 0.3	0.0100-0.0120	0.0039-0.0100	0.0185-0.0204	0.0021-0.0024
	Total Suspended Particulate (TSP)	mg/m ³	≤ 0.33	0.028-0.053	0.031-0.061	0.065-0.080	0.019-0.035
	Particulate matter ₁₀ (PM ₁₀)	mg/m ³	< 0.12	-	-	-	-

BIODIVERSITY

GRI Standard	Performance	Unit	2019	2020	2021	2022
304-1	Number of industrial estate located near protected areas	Operation	2	2	2	2
	Number of industrial estate located near high biodiversity value area		2	2	2	2
	Number of industrial estate that conducts biodiversity value assessment		3	3	3	4
	Number of industrial estate required biodiversity management plan		3	3	3	4
	Number of industrial estate implemented biodiversity management plan		3	3	3	4

Note: WHAUP is operated within WHA Industrial Estates, therefore, the data are reported by the number of industrial estates.

ENVIRONMENTAL COMPLIANCE

GRI Standard	Performance	Unit	2019	2020	2021	2022
307-1	Non-compliance with environmental laws and regulations					
	Total number of violations of legal obligations/regulations	Cases	0	0	0	0
	- Significant fines	Baht	0	0	0	0
	- Non-monetary sanctions	Cases	0	0	0	0
	- Case brought through dispute resolution mechanisms	Cases	0	0	0	0